



DB2 Web Query New Features

Version 2.1.0

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This documentation describes new features, known issues, web browser support, and mobile support for the January 2017 - Hotfix 16 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [National Language Support](#)
- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)
- ❑ [Mobile Browser Support](#)

National Language Support

NLS characters can be used when specifying a file name for the InfoAssist File Format option.

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

REST-Based Application Extension (WQRAX)

You must edit HTML Composer dashboards that were created prior to Web Query 2.1.0 group PTF level 13 or 2.1.1 group PTF level 2 for compatibility with current fix levels. Otherwise, they will not run in WQRAX after applying this Hotfix.

Workaround: Edit the HTML dashboard using Web Query using the following steps:

1. Sign in to Web Query using a Web Query Administrator user ID.
2. On the BI Portal resource tree, right-click the HTML dashboard file and select *Edit*.

Note: if you do not see an Edit option, then the dashboard is already at a current version and these steps do not apply.

3. In the text editor, click *Search* and then *Find*.

4. Type `/webquery/ibi_html` in the Find What: box.
5. Type `./ibi_html` in the Replace With: box.
6. Click the *Replace All* button.
7. Click the *Save* button on the toolbar.
8. Click *File* and then *Exit*.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- ❑ NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
 - ❑ Excel Worksheet name.
 - ❑ Folder name from where the Upload Wizard is being launched.

Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.

- ❑ The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

Workaround: If a license is available, add the user to the DevWorkBench group using the Security Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.

- ❑ Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- ❑ The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

Workaround: Use the Metadata New option to create synonyms for these Adapter types.

InfoAssist

This section addresses the known issues for InfoAssist.

- ❑ The Cut, Copy, and Paste options are unavailable (grayed out) for an InfoAssist Dashboard text box and keyboard shortcuts.

Developer Workbench

This section addresses the known issues for Developer Workbench.

- ❑ Creating a new procedure in InfoAssist will result in a procedure tab name starting with Procedure10.

- ❑ The Upload Data option is not available through the Developer Workbench product.

Workaround: Access the Upload Data option using the Business Intelligence Portal.

- ❑ Developer Workbench online help is hosted on a remote server and requires access to the Internet.

Workaround: A PDF version of the help will be available on the DB2 Web Query Wiki.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.

This step will create the udcidcdb table.

3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.

This step will create the altdicdb table.

4. Create all the synonyms needed.

Note: Steps 2 and 3 need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- ❑ The Run Broker Schedule (RUNBRSCHEDE) command will not run a Report Broker schedule that uses a distribution list for report distribution.

Workaround: Run the schedule from the DB2 Web Query browser interface.

- ❑ Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSservice - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter - Failed
to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

The distribution list will be migrated as a private object. To make this published:

1. Move the distribution list to a published folder, right-click the distribution list, and select the *Publish* option.
- ❑ Schedules may not run when using custom date intervals.

Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in a future Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

- ❑ Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.
- ❑ DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support:
 - ❑ Excel Pivot output type
 - ❑ Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

National Language Support

This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /QIBM/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /QIBM/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

DataMigrator/Data Management Console

Important: The renaming of Application Directories in the Data Management Console is not recommended as it may result in execution failures with the contents of the Application Directory.

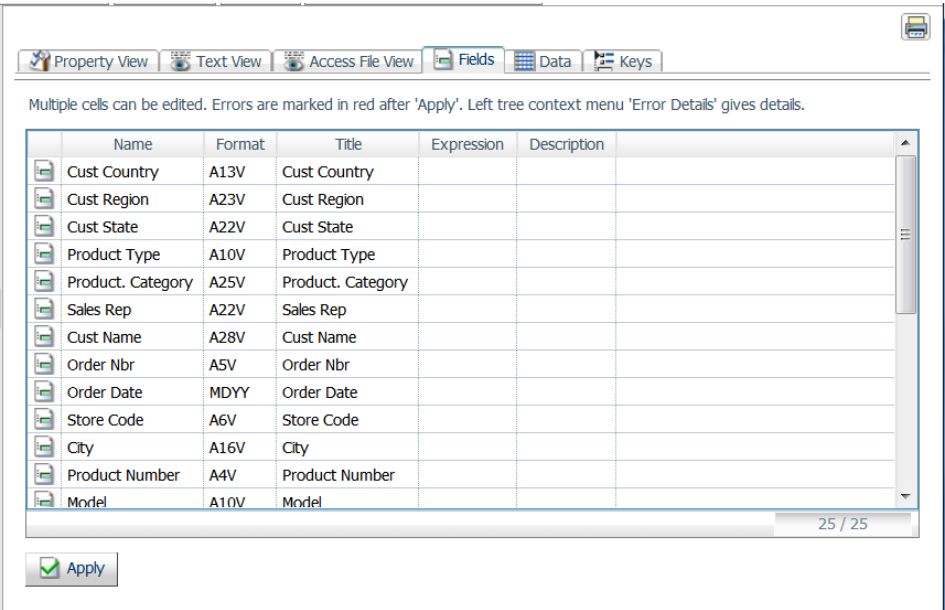
Metadata

This section addresses the known issues for metadata.

- ❑ Creating a synonym for a Query/400 file from the right-click folder Metadata Edit option does not generate the associated Web Query procedure in the repository.

Workaround: Right-click a folder and select the *Metadata New* option to create synonyms for Query/400.

- ❑ Editing a synonym using the Fields tab of the Synonym Editor generates a "Failed to load, server may be down, status =404" error upon applying edits. The Synonym Editor tabs are shown in the following image.



Workaround: Click the *Property View* tab to make any edits to the synonym.

Reporting Language

This section addresses the known issues for the reporting language.

Alert! XLS Files Not Opening After Applying Microsoft Security Patch MS16-088

In July 2016, Microsoft® issued a security patch (MS16-088) that prevents Excel® 2007, 2010, 2013, and 2016 from opening XLS files generated by the Web Query EXL2K and EXL2K FORMULA formats. See [Microsoft Security Bulletin MS16-088 - Critical](#) for details pertaining to each Office release. As described in [Microsoft Fixes or workarounds for recent issues in Excel for Windows](#) dated July 2016, when you previously tried to open an HTML file with an .XLS file extension from an untrusted location, Excel would warn about the mismatch between the file extension and content, but would still open the workbook without Protected View security. After the security updates, Excel no longer opens the workbook because these files are not compatible with Protected View, and there is no warning or other indication it was not opened. Excel shows a blank screen instead of a more helpful error message with information about what to do next.

On August 9, 2016, Microsoft issued updates for Microsoft Office to correct the change in behavior introduced by Microsoft July 2016 security updates (MS16-088) for certain file types to increase security. See [Microsoft Excel workbooks may not open after MS16-088 is installed](#) for additional information, including how to obtain the patch for your Microsoft Office version. As per Microsoft, these updates will also be published to Windows Update and the Windows Server Update Service (WSUS). These services provide files that are updated automatically, based on the Windows Update settings for the computer.

Web Query has been successfully tested with the Microsoft Office update for Excel® 2007, 2010, 2013, and 2016 to confirm XLS files generated by the Web Query EXL2K and EXL2K FORMULA formats open in protected view.

For more information, see [Microsoft Update to Resolve WebFOCUS EXL2K and EXL2K FORMULA \(HTML-based\) XLS Files Not Opening After Applying Microsoft Security Patch MS16-088](#).

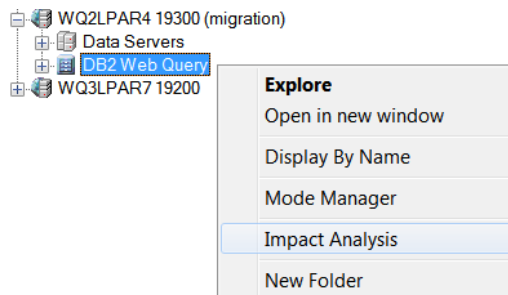
Documentation

This section addresses updates to the documentation.

- ❑ In the Developer Workbench documentation, the Report and Define Function Library options are not available from the Repository folder New menu.
- ❑ In the Developer Workbench documentation, the Visualization and Schedule options are not available from the subfolder right-click menu.
- ❑ In the Report Broker, *Selecting a Report Format* topic, GIF format is not supported for bursting.

- ❑ In the Developer Workbench *Analyzing Metadata and Procedures with the Impact Analysis Tool* topic, the documentation indicates that the Impact Analysis tool can be launched from the Synonym Editor or from the user interface. Regarding the latter, launching the Impact Analysis tool from the Data Server node on the Explorer tree will limit the search path to the Reporting Server application directories. The only procedures that can reside in these directories are DataMigrator for i data flows.

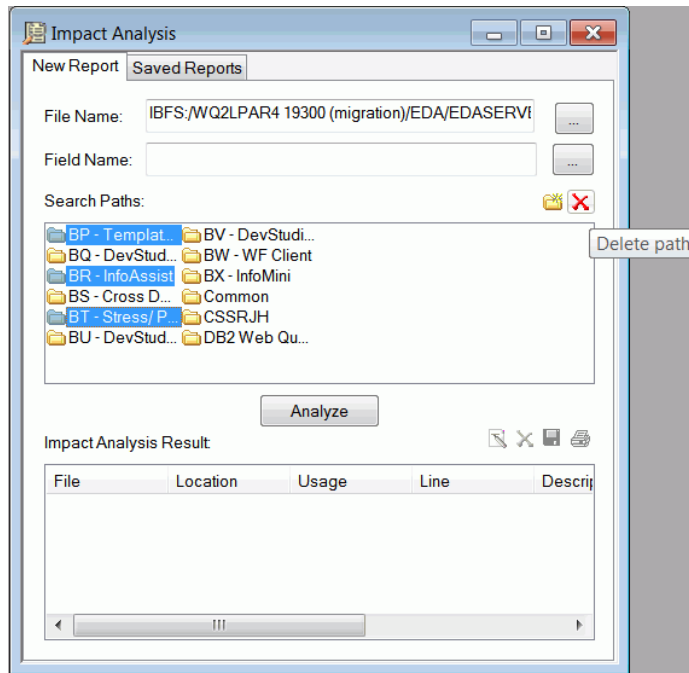
In order for the Impact Analysis tool to be able to search the DB2 Web Query repository, it is necessary to launch the tool from the DB2 Web Query node, and not the Data Servers node, as shown in the following image.



The search path is determined by the location where you launch the Impact Analysis tool. Launching the tool from the DB2 Web Query node will search the entire repository for procedures that are impacted. There are two ways to limit the scope of the search:

1. Launch the Impact Analysis tool from a specific top-level folder in the repository.






- While in the Impact Analysis tool, use the Search Paths filter to delete any top level folders that are not required, as shown in the following image.














Note: Using the Impact Analysis tool from the DB2 Web Query repository node requires a user ID that belongs to the WebQueryAdministrator group.

Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1.0 HF16.

 Supported
  Supported with minor issues
  Under evaluation
 Not evaluated
  Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Reporting						
Active Reports						
HTML Composer pages	Standards mode 	Standards mode 	Standards mode 			
InfoAssist						
HTML Reporting Features						
HTML format (No JavaScript)						
JavaScript components	Standards Mode 	Standards Mode 				
<input type="checkbox"/> Accordion <input type="checkbox"/> HFREEZE <input type="checkbox"/> On-demand Paging	Compatibility View 	Compatibility View 				
<input type="checkbox"/> Multi-drill						







Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
<input type="checkbox"/> Table of Contents (BYTOC)						



















Graph Requests

(See Graph request notes below for additional information)

Server-generated graphs						
Browser-generated (HTML5)						
Browser-generated (AHTML)						
Browser-generated (AFLEX, APDF)						

Web Interfaces

Amper Auto-prompting						
BI Portal						
OLAP						
Report Broker						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Desktop Tools						
Developer Workbench <i>(Requires Internet Explorer)</i>						
Administration Tools						
Security Center						
Web Query Administration Console						

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Graph request notes:
 - ❑ Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
 - ❑ Bitmap: PNG, JPG
 - ❑ Vector: PDF (but not active PDF), SVG
 - ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.


- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
 - ❑ Adobe X is certified.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.


Mobile Browser Support


Web Query was tested on the following devices:


- ❑ iOS 7 tablet
- ❑ iOS 8 tablet
- ❑ iOS 6 touch and phone
- ❑ Android 4.4 tablet and phone


The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1.0 HF16.

 Supported







































 Supported with minor issues





 Under evaluation

 Not evaluated

 Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
HTML Composer pages				
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format (<i>No JavaScript</i>)				
JavaScript components				
<input type="checkbox"/> Accordion				
<input type="checkbox"/> HFREEZE				
<input type="checkbox"/> On-demand Paging				
<input type="checkbox"/> Multi-drill				
<input type="checkbox"/> Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				
Browser-generated (AHTML)				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Interfaces				
Amper Auto-prompting				

Note:

- ❑ Web Query developer tools (InfoAssist) are not supported for mobile.

September 2016 - Hotfix 15

This documentation describes known issues, web browser support, and mobile support for the September 2016 - Hotfix 15 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)
- ❑ [Mobile Browser Support](#)

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Reporting Language

This section addresses the known issues for the reporting language.

Alert! XLS Files Not Opening After Applying Microsoft Security Patch MS16-088

In July 2016, Microsoft® issued a security patch (MS16-088) that prevents Excel® 2007, 2010, 2013, and 2016 from opening XLS files generated by the Web Query EXL2K and EXL2K FORMULA formats. See [Microsoft Security Bulletin MS16-088](#) for details pertaining to each Office release. As described in [Microsoft Fixes or workarounds for recent issues in Excel for Windows](#) dated July 2016, when you previously tried to open an HTML file with an .XLS file extension from an untrusted location, Excel would warn about the mismatch between the file extension and content, but would still open the workbook without Protected View security. After the security updates, Excel no longer opens the workbook because these files are not compatible with Protected View, and there is no warning or other indication it was not opened. Excel shows a blank screen instead of a more helpful error message with information about what to do next.

On August 9, 2016, Microsoft® issued updates for Microsoft Office to correct the change in behavior introduced by Microsoft July 2016 security updates (MS16-088) for certain file types to increase security. See the [Microsoft Excel workbooks may not open after MS16-088 is installed - Microsoft](#) page for additional information, including how to obtain the patch for your Microsoft Office version. As per Microsoft, these updates will also be published to Windows Update and the Windows Server Update Service (WSUS). These services provide files that are updated automatically, based on the Windows Update settings for the computer.

Web Query has been successfully tested with the Microsoft Office update for Excel® 2007, 2010, 2013, and 2016 to confirm XLS files generated by the Web Query EXL2K and EXL2K FORMULA formats open in protected view.

For more information, see [Microsoft Update to Resolve WebFOCUS EXL2K and EXL2K FORMULA \(HTML-based\) XLS Files Not Opening After Applying Microsoft Security Patch MS16-088](#).

REST-Based Application Extension (WQRAX)

You must edit HTML Composer dashboards that were created prior to Web Query 2.1.0 group PTF level 13 or 2.1.1 group PTF level 2 for compatibility with current fix levels. Otherwise, they will not run in WQRAX after applying this Hotfix.

Workaround: Edit the HTML dashboard using Web Query using the following steps:

1. Sign in to Web Query using a Web Query Administrator user ID.
2. On the BI Portal resource tree, right-click the HTML dashboard file and select *Edit*.

Note: if you do not see an Edit option, then the dashboard is already at a current version and these steps do not apply.

3. In the text editor, click *Find/Replace*.
4. Type `/webquery/ibi_html` in the Find What: box.
5. Type `./ibi_html` in the Replace With: box.
6. Click the *Replace All* button.
7. Click the *Save* button.
8. Click the *Close* button.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- ❑ NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
 - ❑ Excel Worksheet name.
 - ❑ Folder name from where the Upload Wizard is being launched.

Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.

- ❑ The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

Workaround: If a license is available, add the user to the DevWorkBench group using the Security Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.

- ❑ Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- ❑ The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

Workaround: Use the Metadata New option to create synonyms for these Adapter types.

InfoAssist

This section addresses the known issues for InfoAssist.

- ❑ Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
 - ❑ Text input box for Prompts (Delete key).

- ❑ Join Description of the Edit Join dialog box (arrow keys).

Workaround: Use the mouse and Backspace key.

Note: This applies to Firefox versions 27.0.01 and higher.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.

This step will create the udcidcdb table.

3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.

This step will create the altdicdb table.

4. Create all the synonyms needed.

Note: Steps 2 and 3 need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- ❑ Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSService - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter - Failed
to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

The distribution list will be migrated as a private object. To make this published:

1. Move the distribution list to a published folder.
 2. Right-click on the distribution list and select the *Publish* option.
- ❑ Schedules may not run when using custom date intervals.

Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in a future Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- ☐ Excel Pivot output type
- ☐ Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

National Language Support

This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /QIBM/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /QIBM/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Data Management Console

Important: The renaming of Application Directories in the Data Management Console is not recommended as it may result in execution failures with the contents of the Application Directory.

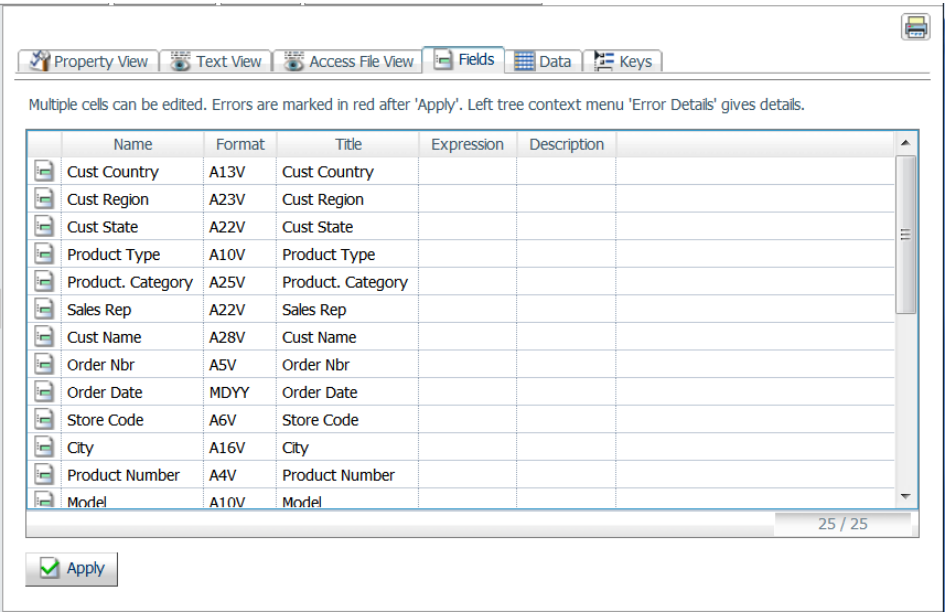
Metadata

This section addresses the known issues for metadata.

- ❑ Creating a synonym for a Query/400 file from the right-click folder Metadata Edit option does not generate the associated Web Query procedure in the repository.

Workaround: Right-click a folder and select the *Metadata New* option to create synonyms for Query/400.

- ❑ Editing a synonym using the Fields tab of the Synonym Editor generates a "Failed to load, server may be down, status =404" error upon applying edits. The Synonym Editor tabs are shown in the following image.



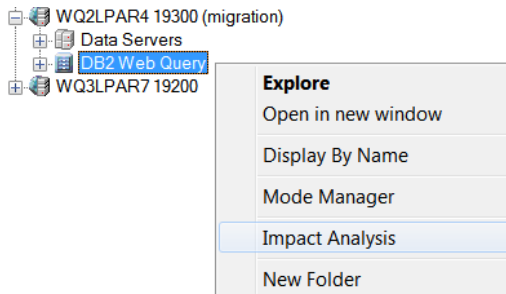
Workaround: Click the *Property View* tab to make any edits to the synonym.

Documentation

This section addresses updates to the documentation.

- ❑ In the Developer Workbench *Analyzing Metadata and Procedures with the Impact Analysis Tool* topic, the documentation indicates that the Impact Analysis tool can be launched from the Synonym Editor or from the user interface. Regarding the latter, launching the Impact Analysis tool from the Data Server node on the Explorer tree will limit the search path to the Reporting Server application directories. The only procedures that can reside in these directories are DataMigrator for i data flows.

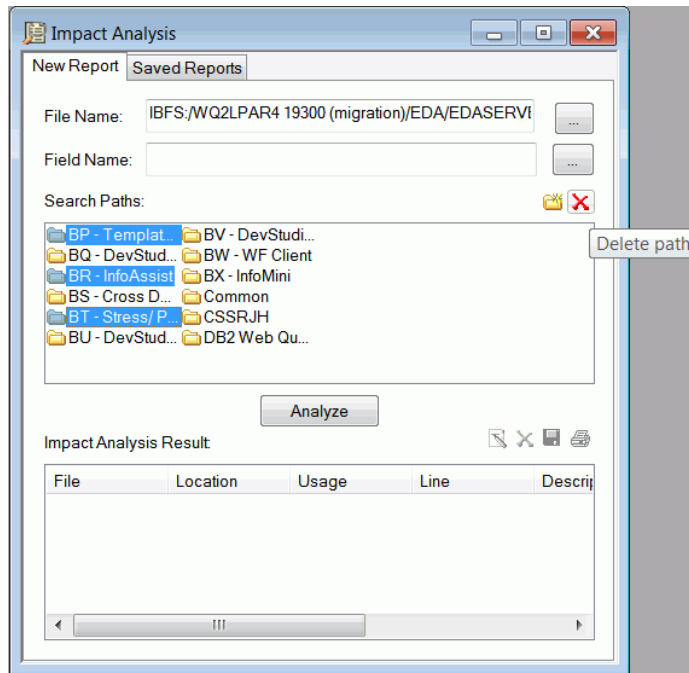
In order for the Impact Analysis tool to be able to search the DB2 Web Query repository, it is necessary to launch the tool from the DB2 Web Query node, and not the Data Servers node, as shown in the following image.



The search path is determined by the location where you launch the Impact Analysis tool. Launching the tool from the DB2 Web Query node will search the entire repository for procedures that are impacted. There are two ways to limit the scope of the search:

1. Launch the Impact Analysis tool from a specific top-level folder in the repository.






- While in the Impact Analysis tool, use the Search Paths filter to delete any top level folders that are not required, as shown in the following image.









Note: Using the Impact Analysis tool from the DB2 Web Query repository node requires a user ID that belongs to the WebQueryAdministrator group.

Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1.0 HF15.

 Supported
  Supported with minor issues
  Under evaluation
 Not evaluated
  Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Reporting						
Active Reports						
HTML Composer pages	Standards mode 	Standards mode 	Standards mode 			
InfoAssist						
HTML Reporting Features						
HTML format (No JavaScript)						
JavaScript components	Standards Mode 	Standards Mode 				
<input type="checkbox"/> Accordion	Compatibility	Compatibility				
<input type="checkbox"/> HFREEZE	View 	View 				
<input type="checkbox"/> On-demand Paging						
<input type="checkbox"/> Multi-drill						



















Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
<input type="checkbox"/> Table of Contents (BYTOC)						

Graph Requests



















(See Graph request notes below for additional information)

Server-generated graphs						
Browser-generated (HTML5)						
Browser-generated (AHTML)						
Browser-generated (AFLEX, APDF)						

Web Interfaces

Amper Auto-prompting						
BI Portal						
OLAP						
Report Broker						

Desktop Tools

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Developer Workbench <i>(Requires Internet Explorer)</i>						
Administration Tools						
Security Center						
Web Query Administration Console						

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Graph request notes:
 - ❑ Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
 - ❑ Bitmap: PNG, JPG
 - ❑ Vector: PDF (but not active PDF), SVG
 - ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.






- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
 - ❑ Adobe X is certified.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.





Mobile Browser Support



Web Query was tested on the following devices:





- ❑ iOS 7 tablet
- ❑ iOS 8 tablet
- ❑ iOS 6 touch and phone
- ❑ Android 4.4 tablet and phone

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1.0 HF15.

 Supported
  Supported with minor issues
  Under evaluation
 Not evaluated
  Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
HTML Composer pages				
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format (<i>No JavaScript</i>)				
JavaScript components				
<input type="checkbox"/> Accordion				
<input type="checkbox"/> HFREEZE				
<input type="checkbox"/> On-demand Paging				
<input type="checkbox"/> Multi-drill				
<input type="checkbox"/> Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				
Browser-generated (AHTML)				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Interfaces				
Amper Auto-prompting				

Note:

- ❑ Web Query developer tools (InfoAssist) are not supported for mobile.

This documentation describes new features, known issues, web browser support, and mobile support for the March 2016 - Hotfix 14 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [InfoAssist Support for XLSX Input Type](#)
- ❑ [REST-Based Application Extension \(WQRAX\)](#)
- ❑ [Run Web Query Fex \(RUNWQFEX\) Command](#)
- ❑ [Security Bulletin: Web Query is affected by the Apache Commons vulnerability](#)
- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)
- ❑ [Mobile Browser Support](#)

InfoAssist Support for XLSX Input Type

XLSX is now supported as an input type when creating a filter condition from a file in InfoAssist.

REST-Based Application Extension (WQRAX)

WQRAX invokes Web Query REST web service APIs to run reports. Before running the report, WQRAX has to connect to REST in order to sign on. The connections to REST can time out, according to the session time out configuration of Web Query. Users can now configure a WQRAX timeout redirect URL in `wqrax.properties`. When the connection to REST times out, WQRAX will redirect the user to the configured URL. For details, see the *Web Query REST-based Application Extension administration guide* at <https://ibm.biz/Bd4xrG>.

HTML Composer dashboards that were created prior to Web Query 2.1.0 group PTF level 13 must be opened and resaved. Otherwise, they will not run in WQRAX after applying this Hotfix. Right-click a dashboard from the Developer Workbench tree, click *Open*, and then click *Save*. You only need to do this once for each dashboard. By opening and resaving the dashboard, a URL internal to the .fex will automatically be updated from '/webquery/ibi_html' to './ibi_html'.

Run Web Query Fex (RUNWQFEX) Command

The RUNWQFEX CL command can now be used to run a Web Query Data Migrator flow. For details, see the *R21x 5250 Reporting Extension usage manual* at <https://ibm.biz/Bd4xr8>.

Security Bulletin: Web Query is affected by the Apache Commons vulnerability

An Apache® Commons™ Collections™ vulnerability for handling Java object deserialization was addressed by IBM® DB2 Web Query for i. Apache is the underlying infrastructure for many Java-based products, including Web Query. While not part of Web Query itself, it was important to include the patch in this Web Query update. For details, see the Security Bulletin at:

<http://www.ibm.com/support/docview.wss?uid=nas8N1021201>

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- ❑ NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:

- ❑ Excel Worksheet name.
- ❑ Folder name from where the Upload Wizard is being launched.

Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.

- ❑ The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

Workaround: If a license is available, add the user to the DevWorkBench group using the Security Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.

- ❑ Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- ❑ The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

Workaround: Use the Metadata New option to create synonyms for these Adapter types.

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This section addresses the known issues for InfoAssist.

- ❑ Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
 - ❑ Text input box for Prompts (Delete key).
 - ❑ Join Description of the Edit Join dialog box (arrow keys).

Workaround: Use the mouse and Backspace key.

Note: This applies to Firefox versions 27.0.01 and higher.

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This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.

This step will create the udcdicdb table.

3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.

This step will create the altdicdb table.

4. Create all the synonyms needed.

Note: Steps 2 and 3 need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- ❑ Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSService - setShares -  
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin  
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr  
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter - Failed  
to share  
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'  
with IBFS:/SSYS/GROUPS/EVERYONE
```

The distribution list will be migrated as a private object. To make this published:

1. Move the distribution list to a published folder.
2. Right-click on the distribution list and select the *Publish* option.

- ❑ Schedules may not run when using custom date intervals.

Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in a future Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- ❑ Excel Pivot output type
- ❑ Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

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This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /QIBM/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /QIBM/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

```
;JSCOM3 Listener
NODE = JSS
BEGIN
    PROTOCOL = TCP
    CLASS = JAVASERVER
    PORT = 12335
    AWT_HEADLESS = Y
    JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
    JVM_MAX_HEAP = 512
    IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Data Management Console

Important: The renaming of Application Directories in the Data Management Console is not recommended as it may result in execution failures with the contents of the Application Directory.

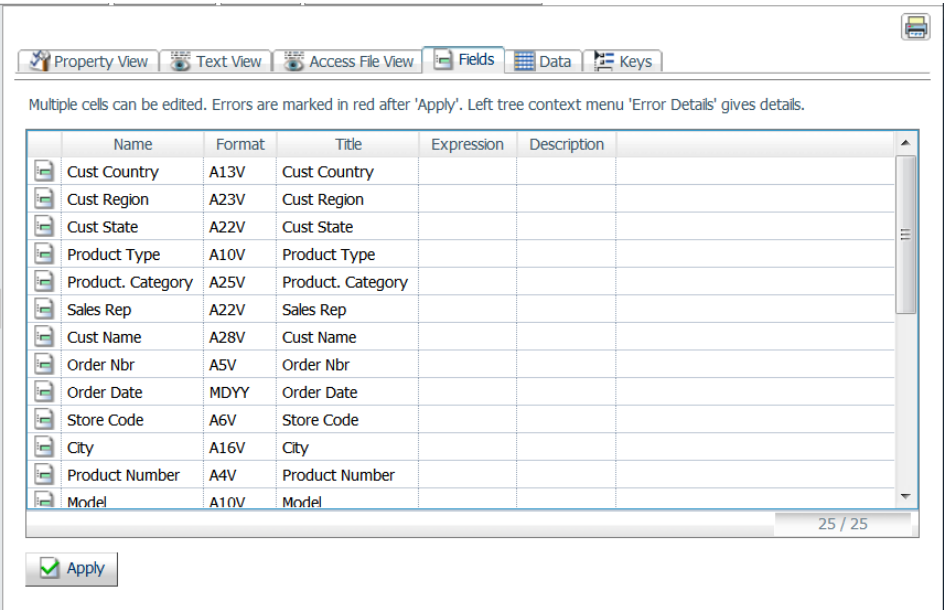
Metadata

This section addresses the known issues for metadata.

- ❑ Creating a synonym for a Query/400 file from the right-click folder Metadata Edit option does not generate the associated Web Query procedure in the repository.

Workaround: Right-click a folder and select the *Metadata New* option to create synonyms for Query/400.

- ❑ Editing a synonym using the Fields tab of the Synonym Editor generates a "Failed to load, server may be down, status =404" error upon applying edits. The Synonym Editor tabs are shown in the following image.



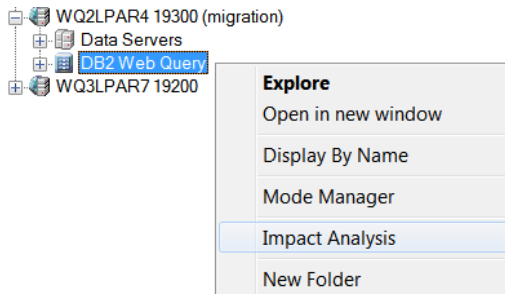
Workaround: Click the *Property View* tab to make any edits to the synonym.

Documentation

This section addresses updates to the documentation.

- ❑ In the Developer Workbench *Analyzing Metadata and Procedures with the Impact Analysis Tool* topic, the documentation indicates that the Impact Analysis tool can be launched from the Synonym Editor or from the user interface. Regarding the latter, launching the Impact Analysis tool from the Data Server node on the Explorer tree will limit the search path to the Reporting Server application directories. The only procedures that can reside in these directories are DataMigrator for i data flows.

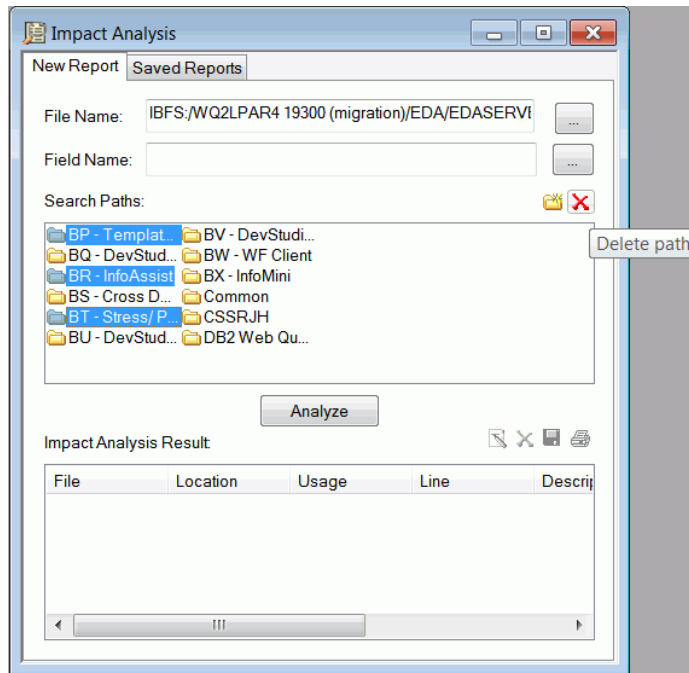
In order for the Impact Analysis tool to be able to search the DB2 Web Query repository, it is necessary to launch the tool from the DB2 Web Query node, and not the Data Servers node, as shown in the following image.



The search path is determined by the location where you launch the Impact Analysis tool. Launching the tool from the DB2 Web Query node will search the entire repository for procedures that are impacted. There are two ways to limit the scope of the search:

1. Launch the Impact Analysis tool from a specific top-level folder in the repository.






2. While in the Impact Analysis tool, use the Search Paths filter to delete any top level folders that are not required, as shown in the following image.



































Note: Using the Impact Analysis tool from the DB2 Web Query repository node requires a user ID that belongs to the WebQueryAdministrator group.

Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF14.

 Supported
  Supported with minor issues
  Under evaluation
 Not evaluated
  Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Reporting						
Active Reports						
HTML Composer pages	Standards mode 	Standards mode 	Standards mode 			
InfoAssist						
HTML Reporting Features						
HTML format (No JavaScript)						
JavaScript components	Standards Mode 	Standards Mode 				
<input type="checkbox"/> Accordion	Compatibility	Compatibility				
<input type="checkbox"/> HFREEZE	View 	View 				
<input type="checkbox"/> On-demand Paging						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
<input type="checkbox"/> Multi-drill						
<input type="checkbox"/> Table of Contents (BYTOC)						

























Graph Requests

(See Graph request notes below for additional information)

Server-generated graphs						
Browser-generated (HTML5)						
Browser-generated (AHTML)						
Browser-generated (AFLEX, APDF)						

Web Interfaces

Amper Auto-prompting						
BI Portal						
OLAP						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Report Broker						
Desktop Tools						
Developer Workbench <i>(Requires Internet Explorer)</i>						
Administration Tools						
Security Center						
Web Query Administration Console						

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Graph request notes:
 - ❑ Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
 - ❑ Bitmap: PNG, JPG
 - ❑ Vector: PDF (but not active PDF), SVG
 - ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.






- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
 - ❑ Adobe X is certified.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.





Mobile Browser Support



Web Query was tested on the following devices:





- ❑ iOS 7 tablet
- ❑ iOS 8 tablet
- ❑ iOS 6 touch and phone
- ❑ Android 4.4 tablet and phone

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1 HF14.

 Supported
  Supported with minor issues
  Under evaluation
 Not evaluated
  Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
HTML Composer pages				
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format (<i>No JavaScript</i>)				
JavaScript components				
<input type="checkbox"/> Accordion				
<input type="checkbox"/> HFREEZE				
<input type="checkbox"/> On-demand Paging				
<input type="checkbox"/> Multi-drill				
<input type="checkbox"/> Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				
Browser-generated (AHTML)				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Interfaces				
Amper Auto-prompting				

Note:

- ❑ Web Query developer tools (InfoAssist) are not supported for mobile.

This documentation describes the new features available in the November 2015 - Hotfix 13 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ☐ [Report Broker Formats for Scheduled Output](#)
 - ☐ [Inserting an SQL Expression Into a Request](#)
 - ☐ [Known Issues](#)
 - ☐ [Web Browser Support](#)
 - ☐ [Mobile Browser Support](#)
-

Report Broker Formats for Scheduled Output

When you create a schedule, you specify the format for the scheduled output.

ALPHA

Format: ALPHA (.ftm, .txt)

Description: Saves scheduled output as fixed-format character data.

Suggested Uses: For display in a text document, for further reporting in Web Query, and as a transaction file for modifying a data source.

Considerations:

- ☐ When created as a HOLD file, a corresponding Master File is created.
- ☐ Bursting is supported.

COM

Format: Com (.cvs)

Description: Saves scheduled output as a variable-length text file in comma-delimited format with character values enclosed in double quotation marks (" "). Blanks within fields are not retained.

This format is required by certain software packages, such as Microsoft Access.

Suggested Uses: For further processing in a database application. This format type can be imported into applications, such as Excel or Lotus.

Considerations:

- ❑ This format type does not create a Master File.
- ❑ Bursting is supported.
- ❑ Smart date fields and dates formatted as I or P fields with date format options are treated as numeric and are not enclosed in double quotation marks (" ") in the output file. Dates formatted as alphanumeric fields with date format options are treated as alphanumeric and enclosed in double quotation marks (" ").
- ❑ Continental decimal notation (CDN=ON|SPACE|QUOTE) is not supported. A comma within a number is interpreted as two separate columns by a destination application, such as Microsoft Access.

COMMA

Format: COMMA (.csv)

Description: Saves scheduled output as a variable-length text file in comma-delimited format with character values enclosed in double quotation marks (" "). All blanks within fields are retained.

This format is required by certain software packages, such as Microsoft Access.

Suggested Uses: For further processing in a database application. This format type can be imported into applications, such as Excel or Lotus.

Considerations:

- ❑ This format type does not create a Master File.
- ❑ Bursting is supported.
- ❑ You can open COMMA reports in Lotus 1-2-3 by right-clicking the report and saving it as a COMMA file.

- ❑ Smart date fields and dates formatted as I or P fields with date format options are treated as numeric and are not enclosed in double quotation marks (" ") in the output file. Dates formatted as alphanumeric fields with date format options are treated as alphanumeric and enclosed in double quotation marks (" ").
- ❑ Continental decimal notation (CDN=ON|SPACE|QUOTE) is not supported. A comma within a number is interpreted as two separate columns by a destination application, such as Microsoft Access.

COMT

Format: COMT (.csv)

Description: Adds titles to a COMMA file. Saves scheduled output as a variable-length text file in comma-delimited format with character values enclosed in double quotation marks (" "). All blanks within fields are retained.

This format is required by certain software packages, such as Microsoft Access.

Suggested Uses: For further processing in a database application. This format type can be imported into applications, such as Excel or Lotus.

Considerations:

- ❑ This format type does not create a Master File.
- ❑ Bursting is supported.
- ❑ Smart date fields and dates formatted as I or P fields with date format options are treated as numeric and are not enclosed in double quotation marks (" ") in the output file. Dates formatted as alphanumeric fields with date format options are treated as alphanumeric and enclosed in double quotation marks (" ").
- ❑ Continental decimal notation (CDN=ON|SPACE|QUOTE) is not supported. A comma within a number is interpreted as two separate columns by a destination application, such as Microsoft Access.

DFIX

Format: DFIX (.ftm, .txt)

Description: Enables you to define any character to act as the delimiter (DELIMITER = your choice of character), include quotation marks around alpha fields (ENCLOSURE = "), and include column titles (HEADER = YES/NO).

The following is an example of a PCHOLD statement that specifies the pipe character (|) as the delimiter, adds quotation marks around alpha fields, and does not include column titles or headings.

```
ON TABLE PCHOLD AS OUT1 FORMAT DFIX DELIMITER | ENCLOSURE " HEADER NO
```

Suggested Uses: Use in files that require custom (non-standard) delimiters.

Considerations:

- ❑ Missing data is indicated by showing no data. If you specified an enclosure, then missing alpha fields are indicated by “”. Missing numeric fields are indicated by two delimiters.
- ❑ Bursting is supported.

EXL07

Format: EXL07 (.xlsx)

Description: Scheduled output opens within Excel 2007 or 2010.

Supports most StyleSheet attributes, allowing for full report formatting.

Suggested Uses: Email

Considerations:

- ❑ Bursting is supported, except compound reports.

EXL2K PIVOT

Format: EXL2K PIVOT (.xls)

Description: Scheduled output opens within Excel 2000 or higher.

Used to analyze complex data much like the OLAP tool in Web Query. It enables you to drag data fields within a PivotTable, providing different views of the data, such as sorting across rows or columns.

Suggested Uses: Email

Considerations:

- ❑ Microsoft Excel 2000 or higher must be installed.
- ❑ The format is ASCII.
- ❑ All EXL2K output with an .xht extension is dynamically changed to .xls for email or FTP distribution. You must edit your web server MIME table so that the .xls extension is ASCII application data, instead of binary.

- ❑ Cannot be used to schedule a compound report.
- ❑ Bursting is not supported.

PPTX

Format: PPTX (.pptx)

Description: Scheduled output opens within Excel 2007 or 2010.

Suggested Uses: Email

Considerations:

- ❑ Bursting is not supported.
- ❑ PPTX can output as a single report and can also include as many graphs as desired embedded in the style sheet of the report (TABLE). In addition, a single PPT report can be placed inside an existing PPT Template.

TAB and TABT

Format: TAB (.tab, .tsv, .txt)

Description: Scheduled output opens in tab-delimited format. For TABT, the format includes column headings in the first row.

This format is required by certain software packages, such as Microsoft Access.

Suggested Uses: Email

Considerations: Bursting is supported.

XML

Format: XML (.xml)

Description: Scheduled output opens in XML format, a markup language that is derived from the Standard Generalized Markup Language (SGML).

Suggested Uses: Describing and exchanging data for applications on different systems.

Considerations: Bursting is not supported.

Inserting an SQL Expression Into a Request

The DB_EXPR function inserts a native SQL expression exactly as entered into the native SQL generated for a Web Query or SQL language request.

The DB_EXPR function can be used in a DEFINE command, a DEFINE in a Master File, a WHERE clause, a FILTER FILE command, a filter in a Master File, or in an SQL statement. It can be used in a COMPUTE command if the request is an aggregate request (uses the SUM, WRITE, or ADD command) and has a single display command. The expression must return a single value.

Syntax: **How to Insert an SQL Expression Into a Request With DB_EXPR**

`DB_EXPR (native_SQL_expression)`

where:

native_SQL_expression

Is a partial native SQL string that is valid for inserting into the SQL generated by the request. The SQL string must have double quotation marks (") around each field reference, unless the function is used in a DEFINE with a WITH phrase.

Reference: **Usage Notes for the DB_EXPR Function**

- ❑ The expression must return a single value.
- ❑ Any request that includes one or more DB_EXPR functions must be for a synonym that has a relational SUFFIX.
- ❑ Field references in the native SQL expression must be within the current synonym context.
- ❑ The native SQL expression must be coded inline. SQL read from a file is not supported.

Example: **Inserting the DB2 BIGINT and CHAR Functions Into a TABLE Request**

DB_EXPR in the following COMPUTE command calls two DB2 functions. It calls the BIGINT function to convert the squared revenue to a BIGINT data type, and then uses the CHAR function to convert that value to alphanumeric.

```
COMPUTE BIGREV/A31 = DB_EXPR(CHAR(BIGINT("REVENUE" * "REVENUE") ) ) ; AS  
'Alpha Square Revenue'
```

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- ❑ NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
 - ❑ Excel Worksheet name.
 - ❑ Folder name from where the Upload Wizard is being launched.

Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.

- ❑ The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

Workaround: If a license is available, add the user to the DevWorkBench group using the Security Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.

- ❑ Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- ❑ The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

Workaround: Use the Metadata New option to create synonyms for these Adapter types.

InfoAssist

This section addresses the known issues for InfoAssist.

- ❑ Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
 - ❑ Text input box for Prompts (Delete key).
 - ❑ Join Description of the Edit Join dialog box (arrow keys).

Workaround: Use the mouse and Backspace key.

Note: This applies to Firefox versions 27.0.01 and higher.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.
This step will create the udcidcdb table.
3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.
This step will create the altdicdb table.
4. Create all the synonyms needed.

Note: Steps 2 and 3 need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- ❑ Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSservice - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter - Failed
to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

The distribution list will be migrated as a private object. To make this published:

1. Move the distribution list to a published folder.
2. Right-click on the distribution list and select the *Publish* option.

- ❑ Schedules may not run when using custom date intervals.

Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in a future Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- ❑ Excel Pivot output type
- ❑ Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

National Language Support

This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the `/QIBM/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err` file and add the following line to the end of the file:

`ENCODING = Cp1026`

Also, edit the /QIBM/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

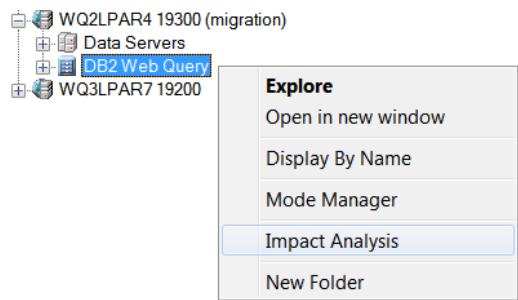
```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Documentation

This section addresses updates to the documentation.

- In the Developer Workbench *Analyzing Metadata and Procedures with the Impact Analysis Tool* topic, the documentation indicates that the Impact Analysis tool can be launched from the Synonym Editor or from the user interface. Regarding the latter, launching the Impact Analysis tool from the Data Server node on the Explorer tree will limit the search path to the Reporting Server application directories. The only procedures that can reside in these directories are DataMigrator for i data flows.

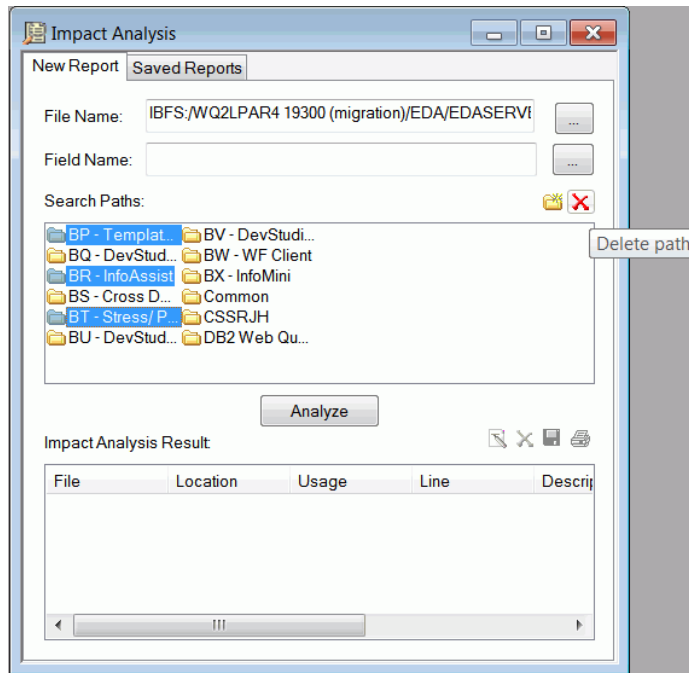
In order for the Impact Analysis tool to be able to search the DB2 Web Query repository, it is necessary to launch the tool from the DB2 Web Query node, and not the Data Servers node, as shown in the following image.



The search path is determined by the location where you launch the Impact Analysis tool. Launching the tool from the DB2 Web Query node will search the entire repository for procedures that are impacted. There are two ways to limit the scope of the search:

1. Launch the Impact Analysis tool from a specific top-level folder in the repository.

- While in the Impact Analysis tool, use the Search Paths filter to delete any top level folders that are not required, as shown in the following image.



Note: Using the Impact Analysis tool from the DB2 Web Query repository node requires a user ID that belongs to the WebQueryAdministrator group.

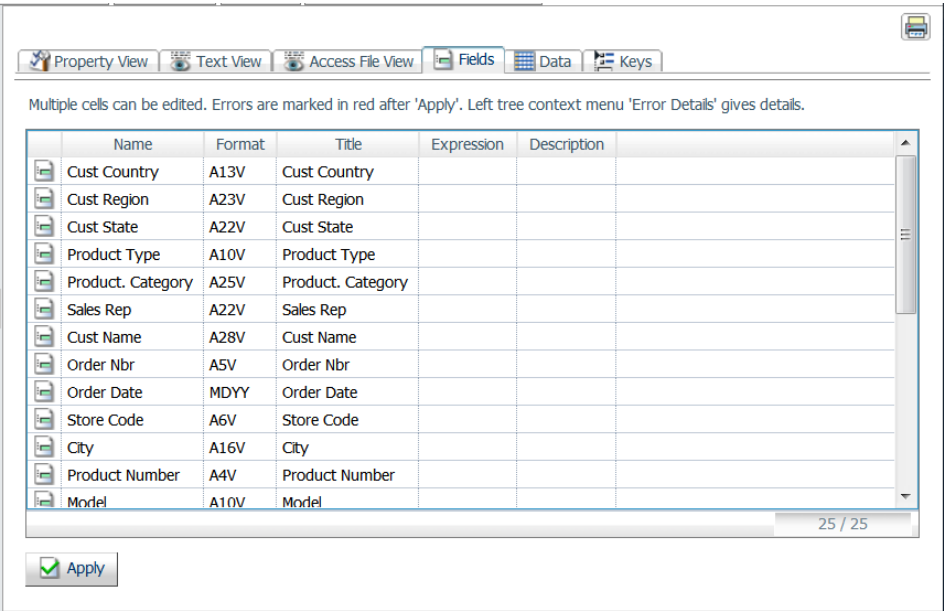
Metadata

This section addresses the known issues for metadata.

- ❑ Creating a synonym for a Query/400 file from the right-click folder Metadata Edit option does not generate the associated Web Query procedure in the repository.

Workaround: Right-click a folder and select the *Metadata New* option to create synonyms for Query/400.






- ❑ Editing a synonym using the Fields tab of the Synonym Editor generates a "Failed to load, server may be down, status =404" error upon applying edits. The Synonym Editor tabs are shown in the following image.









Workaround: Click the *Property View* tab to make any edits to the synonym.

Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF13.

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 Not evaluated
  Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Reporting						
Active Reports						
HTML Composer pages	Standards mode 	Standards mode 	Standards mode 			
InfoAssist						
HTML Reporting Features						
HTML format (No JavaScript)						
JavaScript components	Standards Mode 	Standards Mode 				
<input type="checkbox"/> Accordion	Compatibility View 	Compatibility View 				
<input type="checkbox"/> HFREEZE						
<input type="checkbox"/> On-demand Paging						
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Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
<input type="checkbox"/> Table of Contents (BYTOC)						

Graph Requests



















(See Graph request notes below for additional information)

Server-generated graphs						
Browser-generated (HTML5)						
Browser-generated (AHTML)						
Browser-generated (AFLEX, APDF)						

Web Interfaces

Amper Auto-prompting						
BI Portal						
OLAP						
Report Broker						

Desktop Tools

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Developer Workbench <i>(Requires Internet Explorer)</i>						
Administration Tools						
Security Center						
Web Query Administration Console						

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
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 - ❑ Bitmap: PNG, JPG
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 - ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.






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- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
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 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.





Mobile Browser Support





































Web Query was tested on the following devices:









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- ❑ iOS 8 tablet
- ❑ iOS 6 touch and phone
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  Under evaluation
 Not evaluated
  Not supported

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Reporting				
Active Reports				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
HTML Composer pages				
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format (<i>No JavaScript</i>)				
JavaScript components				
<input type="checkbox"/> Accordion				
<input type="checkbox"/> HFREEZE				
<input type="checkbox"/> On-demand Paging				
<input type="checkbox"/> Multi-drill				
<input type="checkbox"/> Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Browser-generated (AHTML)				
Interfaces				
Amper Auto-prompting				

Note:

- ❑ Web Query developer tools (InfoAssist) are not supported for mobile.

This documentation describes the new features available in the July 2015 - Hotfix 12 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [InfoAssist Lightweight Mapping Customizations](#)
- ❑ [Migrate Web Query \(MIGWEBQRY\) Command](#)
- ❑ [SQL Optimization Report](#)
- ❑ [Report Broker Dynamic Distribution List](#)
- ❑ [Express Analytics Statistics Report](#)
- ❑ [REST-Based Application Extension \(WQRAX\)](#)
- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)
- ❑ [Mobile Browser Support](#)

InfoAssist Lightweight Mapping Customizations

The customization files for the Lightweight Mapping feature, CustomUIMaps.xml and any GeoJSON files, were lost if a new version of DB2 Web Query was applied. This was because the files were previously required to reside in the following directory, which is overlaid for each Hotfix:

[/QIBM/ProdData/QWEBQRY/base80/config/web_resource/map](#)

This will no longer happen, as the following user data directory can now contain the customization files:

[/QIBM/UserData/qwebqry/base80/config/web_resource/map](#)

Copy or create all customization files to this directory to prevent customizations from being lost.

Migrate Web Query (MIGWEBQRY) Command

The MIGWEBQRY CL command can be used to migrate Web Query from 5733-QU2 version 1.1.1 or 1.1.2 to 5733-WQX version 2.1. It can also be used to migrate from one version 2.1 system to another. For example, if you are upgrading to new hardware, setting up a disaster recovery (DR) machine, or updating a production partition from a test partition. The tool will first clear the Web Query repository on the target system, ensuring a fresh start, and then will migrate reports, metadata, distribution lists, schedules, and user licenses. For more information, see the MIGWEBQRY user manual by clicking the *Installation* link at <http://ibm.co/db2wqinstallation>.

SQL Optimization Report

You can determine which functions are optimized to their SQL counterparts by adapter in the SQL Optimization Report available from the Web Console or Data Management Console.

The following procedure describes how to display the SQL Optimization Report.

Procedure: How to Display the SQL Optimization Report

1. From the Web Console or Data Management Console, select *Adapters*.
2. From the Information section of the ribbon, click the *SQL Optimization Report* button.

The Filter SQL Optimization Report page opens, as shown in the following image.

Filter SQL Optimization Report

Adapter Subcategory: 1, 2, 3

Function Category: Character - Simplified (in progress), Character - DBCS Code Pages, Character, Numeric, Date - Simplified (in progress)

☐ Show Function Description

☐ Show DBCS Configuration

☐ Show Requirement on parameter value(s)

Show Report

3. Optionally, select an *Adapter Subcategory* from the corresponding list box.
4. Optionally, select a *Function Category* from the corresponding list box.
5. Optionally, select the *Show Function Description*, *Show DBCS Configuration*, or *Show Requirement on parameter value(s)* check boxes.
6. Click *Show Report*.

The SQL Optimization Report shows the available functions for the specific relational database management systems.

Note: Some relational database systems on the report may not be available on your system.

Report Broker Dynamic Distribution List

A Dynamic Distribution List enables you to return in memory, to Report Broker, either a list of burst values and destinations, or only a list of destinations from a data source (for example, a flat file or SQL database). You must use a DB2 Web Query procedure that resides in an accessible application directory on the Reporting Server to return the list.

Two procedures, dynburst.fex and dynlist.fex, are provided for this purpose in the baseapp application directory. The difference between the procedures is that one procedure supports burst output and the other procedure does not. The procedures are accessible by all users and can be used for any schedule.

When a schedule runs, the dynburst or dynlist procedure invokes an SQL stored procedure (that you specify as an input parameter) to access your distribution data and return the information. The Web Query procedure then passes the information to Report Broker in a layout that it expects. The format and order of the data is important so that Report Broker can identify and process the information returned.

Web Query Procedures

When BURSTING is required, use dynburst.fex, where &SQLPROC is the name of a stored procedure you created to return the correct values.

The column names and the order in which they are returned must be:

- ❑ VALUE for burst values. This is a character field with length 30.
- ❑ DEST for email addresses. This is a character field with length 50.

dynburst.fex

```
SQL DB2 EX &sqlproc;  
TABLE FILE SQLOUT  
PRINT VALUE DEST  
ON TABLE PCHOLD  
END
```

where:

sqlproc

Is the SQL stored procedure retrieving burst values and destination email addresses. This SQL stored procedure must be created in a library that is accessible from DB2 Web Query.

When BURSTING is not required, use dynlist.fex, where &SQLPROC is the name of a stored procedure you created to return the correct destinations.

In this case, the VALUE column should not be provided, since it is not used.

dynburst.fex

```
SQL DB2 EX &sqlproc;  
TABLE FILE SQLOUT  
PRINT DEST  
ON TABLE PCHOLD  
END
```

where:

sqlproc

Is the SQL stored procedure retrieving destination email address values. This SQL stored procedure must be created in a library that is accessible from DB2 Web Query.

Once the SQL stored procedure has been created, the Report Broker Scheduling tool is used to specify a Dynamic Distribution List. Click the *Distribution* icon, then select *Dynamic Distribution List* from the Type drop-down list, as shown in the following image.

The screenshot shows the 'Schedule' window of the Report Broker Scheduling tool. The 'Distribution' icon is highlighted in the 'Show' section. Below, the 'Distribution: Email' configuration is shown. The 'Distribution Information' tab is selected. The 'Type' dropdown is set to 'Dynamic Distribution List'. The 'Subject' field contains '1a - Revenue Summary by Product Category'.

Distribution Information	
Type:	Email Address(s) ▼
To:	Distribution List
From:	Email Address(s)
Reply Address:	Dynamic Distribution List
Subject:	1a - Revenue Summary by Product Category

When Dynamic Distribution List is selected, the To field is enabled to facilitate the selection of the Procedure Name. Once a procedure is selected, you can pass a parameter on the command line of the procedure. In the following image, the dynlist procedure is selected and an example SQL stored procedure named QGPL/DYNDISLIST is passed as an input parameter to the Web Query procedure.

The screenshot shows the 'Dynamic Distribution List' dialog box. The 'Distribution Information' section has 'Type' set to 'Dynamic D...', 'To...' is a button, 'From' is empty, 'Reply Address' is empty, and 'Subject' is '1a - Revenue'. The 'Email Information' section has 'Send the report as inline message' and 'Send all reports as attachments' both selected. The 'Report Compression' section has 'Add Report to Zip File' selected and 'Zip File Name' is empty. The 'Dynamic Distribution List' section has 'Server Name' set to 'EDASERVE', 'Execution ID' set to 'wqadmin', and 'Procedure Name' set to 'DYNLIST SQLPROC=QGPL/DYNDISLIST'. There are 'Browse...', 'OK', and 'Cancel' buttons.

In the Dynamic Distribution List dialog box, there are several fields:

- ❑ Server Name is the DB2 Web Query Reporting Server name. This is always EDASERVE.
- ❑ Execution ID is the owner of the schedule.
- ❑ Procedure name is the DB2 Web Query procedure used to retrieve burst values and destination email address values. There are two sample DB2 Web Query procedures residing in the baseapp application directory: DYNLIST or DYNBURST. Both have been designed to accept a parameter called SQLPROC, which identifies the SQL stored procedure used to retrieve burst values and destination email address values from a DB2 file.

In this example, SQLPROC=QGPL/DYNDISLIST.

Example: Data Source for Burst Values and Destinations

The following is example SQL code to set up a simple DB2 table named QGPL.DYNAMIC_DIST_LIST with burst values and email addresses.

```
SET SCHEMA QGPL;

DROP TABLE QGPL.DYNAMIC_DIST_LIST;

CREATE TABLE QGPL.DYNAMIC_DIST_LIST
  (VALUE CHAR(30) DEFAULT ' ' , DEST CHAR(50) NOT NULL);

INSERT INTO QGPL.DYNAMIC_DIST_LIST
VALUES('burst_value1', 'your_recipient1@emailAddress.com'),
      (' ', 'your_recipient2@emailAddress.com'),
      ('burst_value3', 'your_recipient3@emailAddress.com');

RENAME QGPL.DYNAMIC_DIST_LIST TO SYSTEM NAME DYNDISLIST;

GRANT ALTER , DELETE , INDEX , INSERT , REFERENCES , SELECT ,
      UPDATE ON DYNAMIC_DIST_LIST TO QWQADMIN WITH GRANT OPTION ;
```

Example: SQL Stored Procedure

The following is example source to create an SQL stored procedure named QGPL.GET_DIST_LIST that reads burst values and email addresses from a simple DB2 table and passes them in memory to dynburst.fex. A result set with two (2) columns is returned by the stored procedure. One column, VALUE, is for the burst value with character length 30. A blank ('') is for no burst. The second column, DEST, is for the email address with character length 50.

```
DROP PROCEDURE QGPL.GET_DIST_LIST( );

CREATE PROCEDURE QGPL.GET_DIST_LIST( )
RESULT SETS 1
LANGUAGE SQL
SPECIFIC GETDISLIST
P1: BEGIN
    DECLARE C1 CURSOR WITH RETURN FOR
    SELECT VALUE, DEST FROM QGPL.DYNAMIC_DIST_LIST;
    OPEN C1;
END P1
;
```

(RUN CL Commands)

```
CHGOBJOWN OBJ(QGPL/DYNDISLIST) OBJTYPE(*FILE) NEWOWN(QWQADMIN);
CHGOBJOWN OBJ(QGPL/GETDISLIST) OBJTYPE(*PGM) NEWOWN(QWQADMIN);
```

Express Analytics Statistics Report

The Statistics Report is a Data Profiling report that provides data characteristics for the columns in a synonym. The Statistics Report is created by the Upload and Metadata Wizards in a subfolder called Utilities.

Statistics Report Columns

The Statistics report provides the segment, format, count of distinct values, total count, patterns count, average length, and minimum and maximum values for each field in a synonym. In addition, there are drill-down reports that give you further insight into your data. For example, clicking on the *Field Name* column will generate a Distinct Values Report for the respective column.

The following is an example of the Express Analytics Statistics Report generated by the Upload Wizard. The synonym created is CENTURY_SALES and the statistics report is found in a subfolder call Analytics. The Statistics Report is an active report with drill downs and provides insight to the data associated with CENTURY_SALES, as shown in the following image.

Data Profiling for CENTURY_SALES											
The CENTURY_SALES statistics file was last updated on August 05, 2015 at 11:21:51											
Field Name	Format	Count	Count of Distinct Values	Distinct Percent	Count of Distinct Patterns	Minimum Value	Maximum Value	Average Value	Minimum Length	Maximum Length	Average Length
CUST_COUNTRY	A13V	875	5	0	4	Canada	United States	-	5	13	-
CUST_REGION	A23V	875	21	2	16	Andalucia	Western Canada	-	3	23	-
CUST_STATE	A22V	875	33	3	19	Arkansas	Viccaya	-	4	22	-
PRODUCT_TYPE	A10V	875	5	0	4	Audio	Video	-	5	10	-
PRODUCT_CATEGORY	A25V	875	15	1	14	Amplifiers/PreAmps/Tuners	VCR	-	2	25	-
SALES_REP	A22V	875	45	5	34	Arlid Kristiansen	Wendy Hultson	-	9	22	-
CUST_NAME	A28V	875	22	2	21	Almacen De la Alta Fidelidad	Winnipeg Audio	-	5	28	-
ORDER_NBR	A5V	875	508	58	1	28015	98550	-	5	5	-
ORDER_DATE	MDYY	875	182	20	010022008	12182008	-	12/08/2008	-	-	-
STORE_CODE	A6V	875	45	5	1	1003CA	8004BA	-	6	6	-
CITY	A16V	875	41	4	16	Baltimore	Winnipeg	-	4	16	-
PRODUCT_NUMBER	A4V	875	62	7	1	1001	5015	-	4	4	-
MODEL	A10V	875	57	6	29	AVR-100	VOE-100	-	5	10	-
PRODUCT_NAME	A41V	875	62	7	49	Audio/Video Receiver	7.1-Piece Home Theater Speaker System	-	10	41	-
REVENUE	P13.2C	875	438	50	-	380.00	1,748,001.00	75,196.72	-	-	-
QUANTITY	I8	875	128	14	-	10	10000	79	-	-	-
COST_OF_GOODS_SOLD	P13.2C	875	400	45	-	150.00	1,084,000.01	53,987.73	-	-	-
ORDER_DATE_YEAR	I4	875	2	0	-	2008	2009	2008	-	-	-
ORDER_DATE_QUARTER	I1	875	4	0	-	1	4	2	-	-	-
ORDER_DATE_MONTH	I2	875	12	1	-	1	12	6	-	-	-
ORDER_DATE_DAY	I2	875	31	3	-	1	31	13	-	-	-
ORDER_DATE_YEAR_Y	YYMDy	875	2	0	-	2008	2009	2008	-	-	-
ORDER_DATE_YEAR_O	YYMDm	875	8	0	-	2008 Q1	2009 Q4	2008 Q4	-	-	-

REST-Based Application Extension (WQRAX)

The useSSL parameter in the wqrax.properties of WQRAX is deprecated and ignored. WQRAX is able to determine if SSL is enabled, so the user no longer has to set the value of the useSSL parameter in wqrax.properties.

Another change is in the usage of the WQRAX Short URL. When the user passes the port number to the GENERATEID procedure of the QWEBQRY/QWQGNHURL service program to generate the short URL, that port number should be 12336, which was 12331. This change is required for any users who implement SSL in their applications, and is optional for other users. If the user enables SSL and does not make this change, the short URL would not be successfully returned.

Refer to the Web Query REST-based Application Extension administration guide for details:
<https://www.ibm.com/developerworks/community/wikis/form/anonymous/api/wiki/96f36e44-b59d-40c8-8efb-e3267e86b310/page/8443067b-c120-4f1d-8049-d421b39aac54/attachment/e57ef333-61a2-4a58-9d97-8dd8bdb40d8b/media/Web%20Query%20REST-based%20Application%20Extension%20administration%20guide.pdf>

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- ❑ NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:

- ❑ Excel Worksheet name.
- ❑ Folder name from where the Upload Wizard is being launched.

Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.

- ❑ The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

Workaround: If a license is available, add the user to the DevWorkBench group using the Security Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.

- ❑ Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- ❑ The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

Workaround: Use the Metadata New option to create synonyms for these Adapter types.

InfoAssist

This section addresses the known issues for InfoAssist.

- ❑ Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
 - ❑ Text input box for Prompts (Delete key).
 - ❑ Join Description of the Edit Join dialog box (arrow keys).

Workaround: Use the mouse and Backspace key.

Note: This applies to Firefox versions 27.0.01 and higher.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.

This step will create the udcidcdb table.

3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.

This step will create the altdicdb table.

4. Create all the synonyms needed.

Note: Steps 2 and 3 need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- ❑ Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSService - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter - Failed
to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

The distribution list will be migrated as a private object. To make this published:

1. Move the distribution list to a published folder.
2. Right-click on the distribution list and select the *Publish* option.

- ❑ Schedules may not run when using custom date intervals.

Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in a future Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- ❑ Excel Pivot output type
- ❑ Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

National Language Support

This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /QIBM/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /QIBM/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

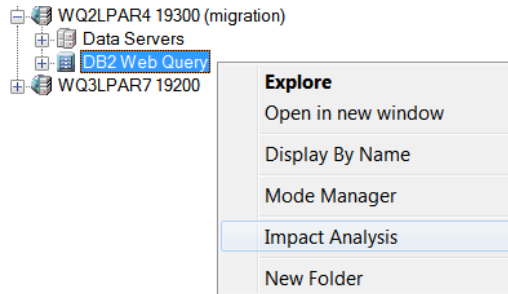
```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Documentation

This section addresses updates to the documentation.

- ❑ The syntax in the *Creating a Dynamic Distribution List* example in the Report Broker Online Help does not work as shown. Use the updated syntax in the Enhancement section *Report Broker Dynamic Distribution List* in this document.
- ❑ In the Developer Workbench *Analyzing Metadata and Procedures with the Impact Analysis Tool* topic, the documentation indicates that the Impact Analysis tool can be launched from the Synonym Editor or from the user interface. Regarding the latter, launching the Impact Analysis tool from the Data Server node on the Explorer tree will limit the search path to the Reporting Server application directories. The only procedures that can reside in these directories are DataMigrator for i data flows.

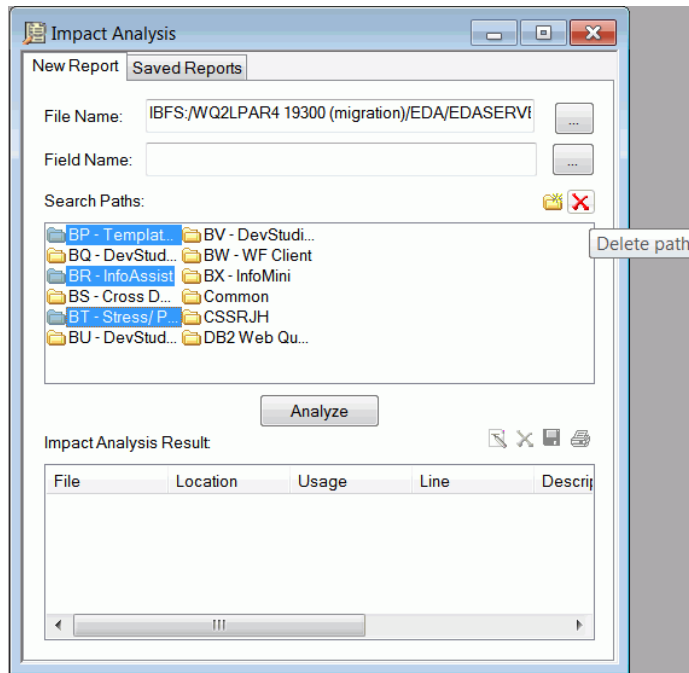
In order for the Impact Analysis tool to be able to search the DB2 Web Query repository, it is necessary to launch the tool from the DB2 Web Query node, and not the Data Servers node, as shown in the following image.



The search path is determined by the location where you launch the Impact Analysis tool. Launching the tool from the DB2 Web Query node will search the entire repository for procedures that are impacted. There are two ways to limit the scope of the search:

1. Launch the Impact Analysis tool from a specific top-level folder in the repository.

2. While in the Impact Analysis tool, use the Search Paths filter to delete any top level folders that are not required, as shown in the following image.



Note: Using the Impact Analysis tool from the DB2 Web Query repository node requires a user ID that belongs to the WebQueryAdministrator group.

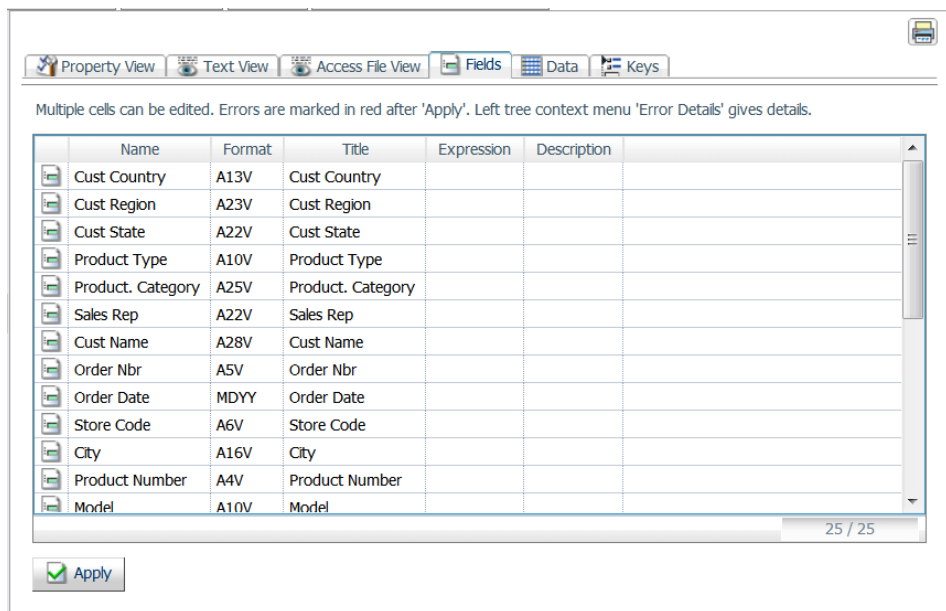
Metadata

This section addresses the known issues for metadata.

- ❑ Creating a synonym for a Query/400 file from the right-click folder Metadata Edit option does not generate the associated Web Query procedure in the repository.

Workaround: Right-click a folder and select the *Metadata New* option to create synonyms for Query/400.

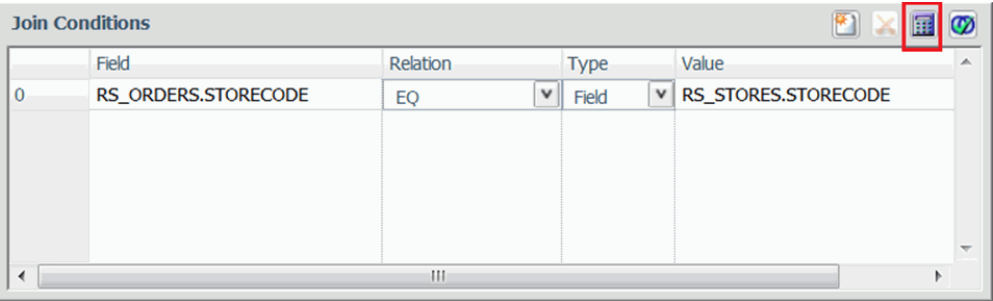
- ❑ Editing a synonym using the Fields tab of the Synonym Editor generates a "Failed to load, server may be down, status =404" error upon applying edits. The Synonym Editor tabs are shown in the following image.



Workaround: Click the *Property View* tab to make any edits to the synonym.

- ❑ The web-based Synonym Editor/Join Editor dialog box generates a JavaScript error when creating a new join condition using the GUI.

Workaround: On the Join Conditions panel toolbar shown in the following image, click the *Editor* button and build the join condition using the Expression Builder. This issue will be resolved in a future Hotfix.



Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF12.

Supported

Supported with minor issues

Under evaluation

Not evaluated

Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Reporting						
Active Reports						
HTML Composer pages	Standards mode	Standards mode	Standards mode			
InfoAssist						
HTML Reporting Features						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
HTML format (No JavaScript)						
JavaScript components	Standards Mode	Standards Mode				
<input type="checkbox"/> Accordion	Compatibility View	Compatibility View				
<input type="checkbox"/> HFREEZE						
<input type="checkbox"/> On-demand Paging						
<input type="checkbox"/> Multi-drill						
<input type="checkbox"/> Table of Contents (BYTOC)						

Graph Requests

(See Graph request notes below for additional information)

Server-generated graphs						
Browser-generated (HTML5)						
Browser-generated (AHTML)						
Browser-generated (AFLEX, APDF)						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v38	Safari v8.0.6	Chrome v43
Web Interfaces						
Amper Auto-prompting						
BI Portal						
OLAP						
Report Broker						
Desktop Tools						
Developer Workbench (Requires Internet Explorer)						
Administration Tools						
Security Center						
Web Query Administration Console						

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Graph request notes:
 - ❑ Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
 - ❑ Bitmap: PNG, JPG
 - ❑ Vector: PDF (but not active PDF), SVG
 - ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.


- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
 - ❑ Adobe X is certified.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.


Mobile Browser Support


Web Query was tested on the following devices:


- ❑ iOS 7 tablet
- ❑ iOS 8 tablet
- ❑ iOS 6 touch and phone
- ❑ Android 4.4 tablet and phone


The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1 HF12.

 Supported





































 Supported with minor issues









 Under evaluation

 Not evaluated

 Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
HTML Composer pages				
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format (<i>No JavaScript</i>)				
JavaScript components				
<input type="checkbox"/> Accordion				
<input type="checkbox"/> HFREEZE				
<input type="checkbox"/> On-demand Paging				
<input type="checkbox"/> Multi-drill				
<input type="checkbox"/> Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Browser-generated (AHTML)				
Interfaces				
Amper Auto-prompting				

Note:

- ❑ Web Query developer tools (InfoAssist) are not supported for mobile.

This documentation describes the new features available in the March 2015 - Hotfix 11 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [IBM DB2 Web Query for i DataMigrator ETL Extension](#)
- ❑ [Determining SQL Optimization](#)
- ❑ [OLAP](#)
- ❑ [RESTful Web Services](#)
- ❑ [Changes in Behavior](#)
- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)
- ❑ [Mobile Browser Support](#)

IBM DB2 Web Query for i DataMigrator ETL Extension

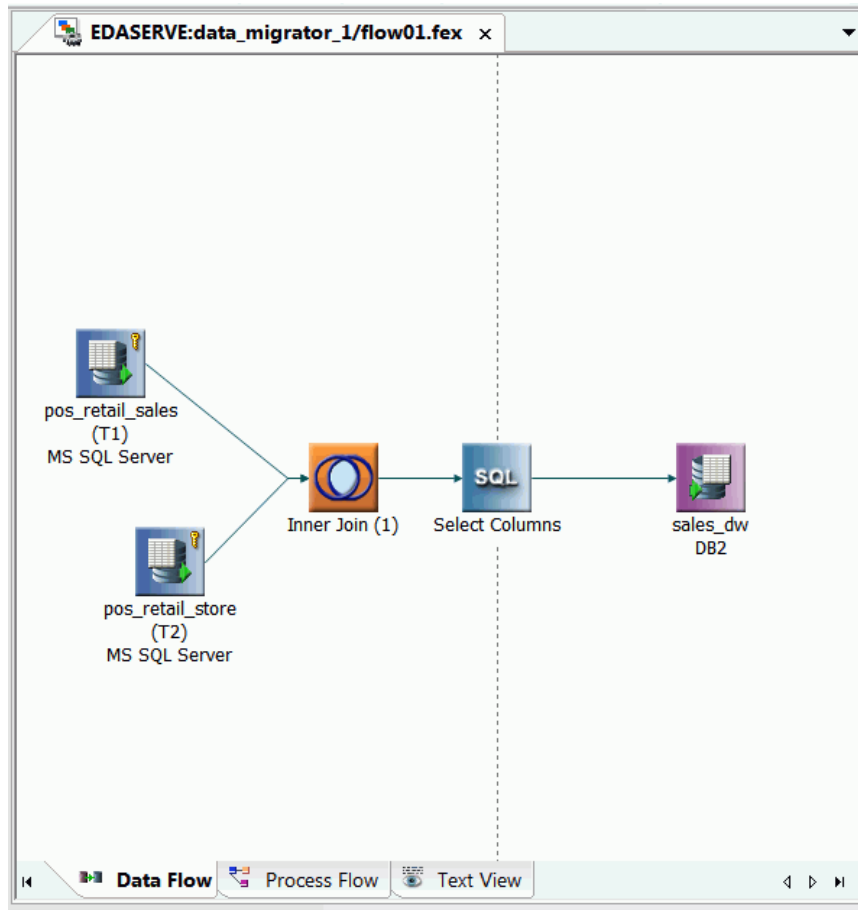
IBM DB2 Web Query for i DataMigrator ETL Extension (DataMigrator for i) is a new ETL (Extract, Transform, and Load) product used to manage data movement in your DB2 environment. DataMigrator for i is tightly integrated with DB2 Web Query and thus leverages the same metadata and transformation language that is used for Web Query reporting.

DataMigrator for i is a separately purchased product from DB2 Web Query. However, it can be enabled on a 70-day trial basis within DB2 Web Query. To enable the trial, perform the following steps:

1. Install Hotfix 11 or later.
2. Install option 8 of the Web Query product (5733-WQX, option 8).
3. Restart Web Query (ENDWEBQRY/STRWEBQRY).
4. Download and install the latest Developer Workbench.

5. Access DataMigrator for i using the Data Management Console (it is installed with Developer Workbench).

DataMigrator for i includes a desktop developer tool with a graphical design interface called the Data Management Console that is used to develop a data flow, as shown in the following image.



The Data Management Console is installed with Developer Workbench. In addition to the visual graphical designer, it has a number of other features that allow a developer to:

- ❑ Access source data in numerous formats and operating systems.
- ❑ Integrate multiple data sources into a single target or multiple data targets.
- ❑ Apply powerful data cleansing rules and transformation logic.
- ❑ Aggregate data and create roll-ups to aid decision support.

- ❑ Use specialized high-volume data loaders.
- ❑ Schedule data updates at user-defined intervals, triggered by events, or based on conditional dependencies.
- ❑ Load a Star Schema with Slowly Changing Dimensions.
- ❑ Monitor and manage key server functions.
- ❑ View comprehensive logging and transaction statistics.

For more information, see the *Web Query DataMigrator User's Guide* at <http://ibm.co/db2wqwiki>.

Determining SQL Optimization

You can determine which functions are optimized to their SQL counterparts by adapter in the SQL Optimization Report available from the Web Console.

Procedure: How to Display the SQL Optimization Report

1. From the Web Console or Data Management Console, select *Adapters*.
2. From the Information section of the ribbon, click the *SQL Optimization Report* button.

The Filter SQL Optimization Report page opens, as shown in the following image.

Filter SQL Optimization Report

Adapter Subcategory

1

2

3

Function Category

Character - Simplified (in progress)

Character - DBCS Code Pages

Character

Numeric

Date - Simplified (in progress)

☐ Show Function Description

☐ Show DBCS Configuration

☐ Show Requirement on parameter value(s)

Show Report

- 3. Optionally, select an *Adapter Subcategory* from the corresponding list box.
- 4. Optionally, select a *Function Category* from the corresponding list box.
- 5. Optionally, select the *Show Function Description*, *Show DBCS Configuration*, or *Show Requirement on parameter value(s)* check boxes.
- 6. Click *Show Report*.

The SQL Optimization Report shows the available functions for the specific relational database managment systems.

Note: Some relational database systems on the report may not be available on your system.

OLAP

The Save Report option for OLAP reports has been fixed. Users who have write access to a folder can use this option. An analyst can save an OLAP report to any accessible private folder. This is any folder created by the analyst within a top-level folder (TLF). A developer or Web Query administrator can save a report to any accessible published or private folder.

RESTful Web Services

The current implementation of RESTful web services now supports the following objects:

- ❑ HTML Composer documents
- ❑ OLAP reports
- ❑ Reports using Powerpoint output format
- ❑ Lightweight Maps

Changes in Behavior

This section addresses the changes in behavior for DB2 Web Query.

- ❑ **Run-Time Enablement (RTE).** Until now, RTE environments only applied to running reports. New code has been added to the Reporting Server profile so that the advantages of RTEs and single-part naming will now automatically apply to all server functions, as well. This means that DataMigrator, Report Broker, and the metadata editor will support RTE and single-part names.

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- ❑ NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
 - ❑ Excel Worksheet name.
 - ❑ Folder name from where the Upload Wizard is being launched.

Workaround: Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.

- ❑ The Upload Wizard fails to upload data. This happens when DB2 Web Query DataMigrator is installed and the user running the Upload Wizard is not licensed to use DataMigrator, that is, a user who is not a member of the DevWorkBench group. This requirement will be removed in a future Hotfix.

Workaround: If a license is available, add the user to the DevWorkBench group using the Security Center. Otherwise, launch the Upload Wizard from a user who is licensed to use DataMigrator, that is, a user who is a member of the DevWorkBench group.

- ❑ Run-Time Enablement (RTE) may cause the Upload Wizard to fail. This will happen if the user's current library (CURLIB) is not defined in the user's active RTE environment. The Upload Wizard writes out a temporary file during the upload process.

Workaround: It is recommended to add both QGPL and the user's CURLIB (if different from the default, QGPL) to the user's active RTE environment using the WRKWQRTE command.

Metadata Wizard

- ❑ The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard.

Workaround: Use the Metadata New option to create synonyms for these Adapter types.

InfoAssist

This section addresses the known issues for InfoAssist.

- ❑ Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
 - ❑ Text input box for Prompts (Delete key).
 - ❑ Join Description of the Edit Join dialog box (arrow keys).

Workaround: Use the mouse and Backspace key.

Note: This applies to Firefox versions 27.0.01 and higher.

DataMigrator

This section addresses the known issues for DataMigrator.

- ❑ The Data Management Console (DMC) Sign In page displays the following error message: "Invalid user id or password". This can be ignored and will be removed in a future Hotfix.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.
This step will create the `udcdicdb` table.
3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.
This step will create the `altdicdb` table.
4. Create all the synonyms needed.

Note: Step 2 and step 3 will need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- ❑ Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSservice - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter - Failed
to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

The distribution list will be migrated as a private object. To make this published:

1. Move the distribution list to a published folder.
 2. Right-click on the distribution list and select the *Publish* option.
- ❑ Schedules may not run when using custom date intervals.
Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in the next Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- ❑ Excel Pivot output type
- ❑ Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

Reporting Server

This section addresses the known issues for the Reporting Server.

- ❑ The toolbar on the Metadata Edit and the Reporting Server Console screens contain an erroneous Wizard icon. Refrain from using this wizard as it is different than the new Upload and Metadata Wizards described in this Hotfix.

Note: The Wizard icon will be removed in a future Hotfix.

National Language Support

This section addresses the known issues for National Language Support (NLS). This section only applies to Turkish and can be ignored otherwise.

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /qibm/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:






```
ENCODING = Cp1026
```


Also, edit the /qibm/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:







```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF11.

 Supported
  Supported with minor issues
  Under evaluation
 Not evaluated
  Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v32	Safari v7.0.6	Chrome v37
Reporting						
Active Reports						
HTML Composer pages	Standards mode 	Standards mode 				
InfoAssist						
HTML Reporting Features						
HTML format (No JavaScript)						
JavaScript components	Standards Mode 	Standards Mode 				
<input type="checkbox"/> Accordion <input type="checkbox"/> HFREEZE <input type="checkbox"/> On-demand Paging	Compatibility View 	Compatibility View 				
<input type="checkbox"/> Multi-drill						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v32	Safari v7.0.6	Chrome v37
<input type="checkbox"/> Table of Contents (BYTOC)						

Graph Requests



















(See Graph request notes below for additional information)

Server-generated graphs						
Browser-generated (HTML5)						
Browser-generated (AHTML)						
Browser-generated (AFLEX, APDF)						

Web Interfaces

Amper Auto-prompting						
BI Portal						
OLAP						
Report Broker						

Desktop Tools

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v32	Safari v7.0.6	Chrome v37
Developer Workbench (Requires Internet Explorer)						
Administration Tools						
Security Center						
Web Query Administration Console						

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Graph request notes:






- ❑ Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
 - ❑ Bitmap: PNG, JPG
 - ❑ Vector: PDF (but not active PDF), SVG
- ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

























Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.

























- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
 - ❑ Adobe X is certified.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.
- ❑ A Java VM on the user machine is required for viewing migrated applet-based graph output created in previous 1.1.x releases. For the web browser to process applets, the following is needed:
 - ❑ Sun Java VM 1.6 or higher must be installed on the end user machine. On Windows 7 64-bit versions, a 32-bit JVM is needed when using the Internet Explorer 32-bit version (the default) or Firefox browser.
 - ❑ The end user browser must be configured to use the VM as a plug-in.

Mobile Browser Support

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1 HF11.

 Supported
  Supported with minor issues
  Under evaluation
 Not evaluated
  Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				
HTML Composer pages				
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format (<i>No JavaScript</i>)				
JavaScript components				
<input type="checkbox"/> Accordion				
<input type="checkbox"/> HFREEZE				
<input type="checkbox"/> On-demand Paging				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
❑ Multi-drill				
❑ Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				
Browser-generated (AHTML)				
Interfaces				
Amper Auto-prompting				

Note:

- ❑ Web Query developer tools (InfoAssist) are not supported for mobile.
- ❑ Android Chrome does not natively support PDF or Excel. Third-party apps (for example, Documents to Go®, Adobe mobile) are required.

This documentation describes the new features available in the January 2015 - Hotfix 10 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ☐ [Business Intelligence Portal](#)
- ☐ [Reporting Server](#)
- ☐ [Internet Explorer 11 Certification](#)
- ☐ [Known Issues](#)
- ☐ [Web Browser Support](#)
- ☐ [Mobile Browser Support](#)

Business Intelligence Portal

The following are Business Intelligence Portal enhancements.

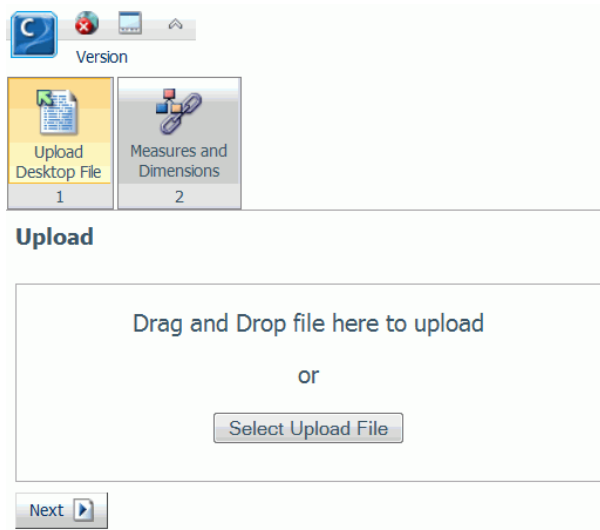
Upload Wizard

The Upload Wizard provides a step-by-step process to help upload files from your local machine to your reporting server application folders and to load them into DB2 for use in creating synonyms and building a suite of reports, charts, and documents.

The Upload Wizard enables you to:

- ☐ Upload data into DB2.
- ☐ Edit synonyms.
- ☐ Create cluster synonyms using dimensions and measures.
- ☐ Generate a suite of analytics.

The Upload Wizard displays the Upload Desktop File and Measures and Dimensions steps on the ribbon, as shown in the following image.



When you complete a task, the wizard automatically moves to the next step.

Note: The default target location for files uploaded with the Upload tools is the current user library, CURLIB. The default table name is a concatenation of the folder name from which the Upload tool was invoked and the synonym name. The DB2 file name is stored in the TABLENAME attribute in the synonym Access File. To view the Access File, right-click the synonym and select the *Edit Access File as Text* option.

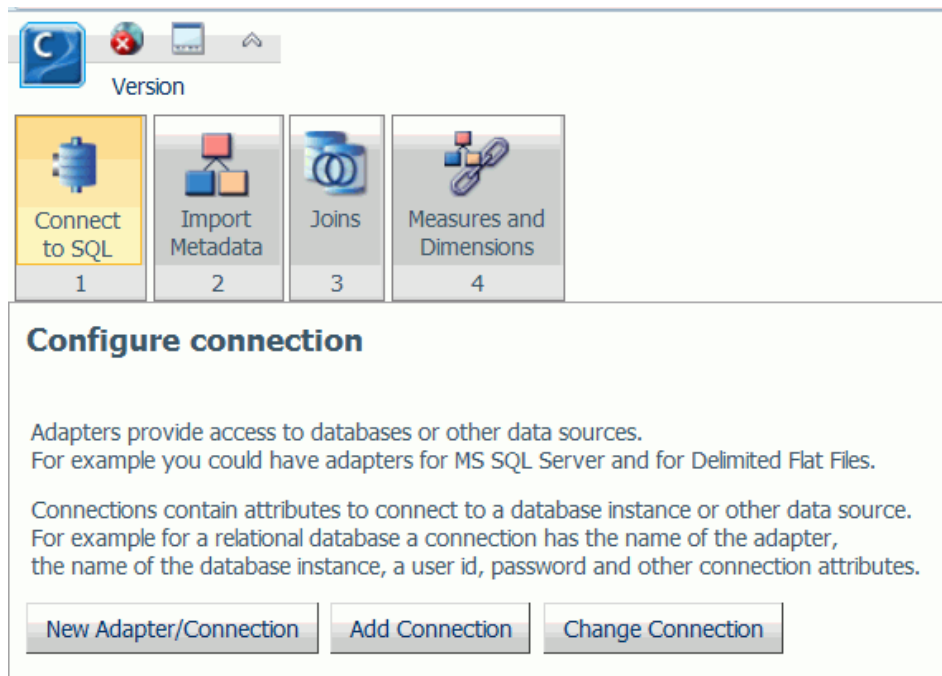
Metadata Wizard

The Metadata Wizard provides a step-by-step process to help connect to your existing data sources, create synonyms, and build a suite of reports, charts, and documents.

The Metadata Wizard enables you to:

- ☐ Configure an adapter, create a new connection, or change connection parameters.
- ☐ Create synonyms or samples.
- ☐ Edit synonyms.
- ☐ Specify dimensions and measures to create cluster synonyms.
- ☐ Generate a suite of analytics.

The Metadata Wizard displays the Connect to SQL, Import Metadata, Joins, and Metadata and Dimensions steps on the ribbon, as shown in the following image.



When you complete a task, the wizard automatically moves to the next step.

Reporting Server

The following are Reporting Server enhancements.

Automatic Decomposition of Date Fields

The Create Synonym process automatically decomposes date fields (for example, YYMD) into individual date components. The simple decomposition is Year, Quarter, Month, and Day. The compound decomposition is Year-Quarter, Year-Month, and Month-Day-Year. Both types are automatically created using a set of Define fields. The Upload and Metadata Wizards automatically form hierarchies based upon these individual date components.

This feature can be turned off during the Create Synonym process. Set the Decompose Date fields into components option to No, as shown in the following image.

Create Synonym for DB2 (*LOCAL)

Selected Parameters

Miscellaneous Parameters

Customize data type mappings

Integer Precision

11

Default: 11

Float Precision

20

Default: 20

Float Scale

2

Default: 2

Decompose Date fields into components

No

Format for Date fields

Adapter specific default

Internet Explorer 11 Certification

As of Web Query Version 2.1 Hotfix 10, Internet Explorer 11 is certified. For more information on the Web Query components that are supported, see [Web Browser Support](#) on page 125.

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Business Intelligence Portal

This section addresses the known issues for BI Portal.

Upload Data and Upload Wizard

- ☐ NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
 - ☐ Excel Worksheet name.
 - ☐ Folder name from where the Upload Wizard is being launched.

Workaround: Use ASCII characters. Support for NLS characters will be added in a future Hotfix.

Change in Behavior for Upload Data. The Upload Data option employs the Reporting Server upload data utility. This is the same utility that is used by the new Upload Wizard.

- ❑ Excel and delimited flat files are uploaded into DB2 Web Query as DB2 files, by default. This improves performance and ease of use when joining to other data sources. Prior releases of Web Query would upload both file types as a delimited flat file.
- ❑ InfoAssist is automatically launched after the data file is uploaded. The synonym created for the uploaded data file is presented in the InfoAssist Data pane. Prior releases of Web Query would not launch any tool after the data file was uploaded.

Metadata Wizard

- ❑ The Adapters for Query/400, DB Heritage, and JD Edwards should not be used during the Import Metadata step as these are multi-step Create Synonym processes, which are not yet supported by the Metadata Wizard. In addition, DB2 Stored Procedures, External Scripts, and Table Log Records should not be used, as these object types are not supported using the wizard.

Workaround: Use the Metadata New option to create synonyms for these Adapter types.

Change Management

In Web Query Hotfix 10, the default for the Change Management package format needs to be added to the webconfig.xml file. Failure to do so will result in Change Management packages that do not import correctly.

Edit the following file with the EDTF command, as follows:

```
EDTF '/qibm/UserData/qwebqry/base80/config/webconfig.xml'
```

Add the following text to the webconfig.xml file in
/qibm/userdata/qwebqry/base80/config/webconfig.xml:

```
<context-param>
  <param-name>IBI_CM_Format_Raw</param-name>
  <param-value>>false</param-value>
  <param-properties/>
  <category-name>Change Management</category-name>
</context-param>
```

Add text between the following param sections:

```
<context-param>
  <param-name>IBI_CM_Retain_Handles</param-name>
  <param-value>true</param-value>
  <param-properties/>
  <category-name>Change Management</category-name>
</context-param>
```

INSERT NEW TEXT HERE

```

<context-param>
  <param-name>IBI_Session_Fidelity_Check</param-name>
  <param-value>FALSE</param-value>
  <param-default>FALSE</param-default>
  <use-default>FALSE</use-default>
  <param-properties/>
  <category-name>HIDDEN</category-name>
</context-param>

```

InfoAssist

This section addresses the known issues for InfoAssist.

- ❑ **Autodrill on Dimensions.** If you have a newly created synonym with multiple hierarchies in a single dimension, it can cause a problem when more than one hierarchy is placed in a report. Performing a drill down will always drill to the first hierarchy in order of appearance in the synonym. The synonyms generated by the Upload tools have multiple hierarchies in a single dimension and will encounter this error.

Workaround: Use the Synonym Editor or the Wizards to define one hierarchy per dimension. This will be resolved in Hotfix 11.

- ❑ Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
 - ❑ Text input box for Prompts (Delete key).
 - ❑ Join Description of the Edit Join dialog box (arrow keys).

Workaround: Use the mouse and Backspace key.

Note: This applies to Firefox versions 27.0.01 and higher.

Active Technologies

This section addresses the known issues for Active Technologies.

- ❑ Running an Active Chart produces a slightly different color theme from previous releases.

Workaround: None. This will be resolved in Hotfix 11.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.
This step will create the udcicdb table.
3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.
This step will create the altdicdb table.
4. Create all the synonyms needed.

Note: Step 2 and step 3 will need to be run, as needed, whenever UDC descriptions are updated.

Report Broker

This section addresses the known issues for Report Broker.

- ❑ Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSService - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter - Failed
to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS://SSYS/GROUPS/EVERYONE
```

The distribution list will be migrated as a private object. To make this published:

1. Move the distribution list to a published folder.
 2. Right-click on the distribution list and select the *Publish* option.
- ❑ Schedules may not run when using custom date intervals.
Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in the next Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- ❑ Excel Pivot output type
- ❑ Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

RESTful Web Services

The current implementation of RESTful web services does not support the following objects:

- ❑ HTML Composer documents
- ❑ OLAP reports
- ❑ InfoMini reports
- ❑ Reports using Powerpoint output format
- ❑ Lightweight Maps

Support for these objects will be available in a future version of DB2 Web Query, with the exception of InfoMini reports. It is likely that InfoMini reports will never be supported.

Reporting Server

This section addresses the known issues for the Reporting Server.

- ❑ The toolbar on the Metadata Edit and the Reporting Server Console screens contain an erroneous Wizard icon. Refrain from using this wizard as it is different than the new Upload and Metadata Wizards described in this Hotfix.

Note: The Wizard icon will be removed in Hotfix 11.

National Language Support

This section addresses the known issues for National Language Support (NLS).

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the `/qibm/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err` file and add the following line to the end of the file:






```
ENCODING = Cp1026
```



















Also, edit the /qibm/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

```
;JSCOM3 Listener
NODE = JSS
BEGIN
    PROTOCOL = TCP
    CLASS = JAVASERVER
    PORT = 12335
    AWT_HEADLESS = Y
    JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
    JVM_MAX_HEAP = 512
    IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF10.

 Supported
  Supported with minor issues
  Under evaluation
 Not evaluated
  Not supported

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v32	Safari v7.0.6	Chrome v37
Reporting						
Active Reports						
HTML Composer pages	Standards mode 	Standards mode 				
InfoAssist						
HTML Reporting Features						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v32	Safari v7.0.6	Chrome v37
HTML format (No JavaScript)						
JavaScript components	Standards Mode	Standards Mode				
<input type="checkbox"/> Accordion	Compatibility View	Compatibility View				
<input type="checkbox"/> HFREEZE						
<input type="checkbox"/> On-demand Paging						
<input type="checkbox"/> Multi-drill						
<input type="checkbox"/> Table of Contents (BYTOC)						

Graph Requests

(See Graph request notes below for additional information)

Server-generated graphs						
Browser-generated (HTML5)						
Browser-generated (AHTML)						
Browser-generated (AFLEX, APDF)						

Web Query Component	Internet Explorer v11 (32-bit)	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v32	Safari v7.0.6	Chrome v37
Web Interfaces						
Amper Auto-prompting						
BI Portal						
OLAP						
Report Broker						
Desktop Tools						
Developer Workbench (Requires Internet Explorer)						
Administration Tools						
Security Center						
Web Query Administration Console						

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Graph request notes:
 - ❑ Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
 - ❑ Bitmap: PNG, JPG
 - ❑ Vector: PDF (but not active PDF), SVG
 - ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

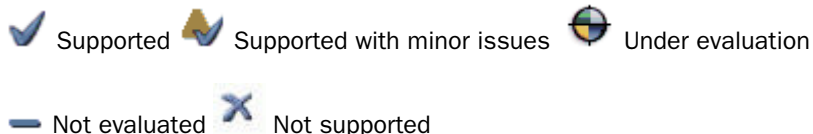
Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.









- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.





































- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
 - ❑ Adobe X is certified.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.
- ❑ A Java VM on the user machine is required for viewing migrated applet-based graph output created in previous 1.1.x releases. For the web browser to process applets, the following is needed:
 - ❑ Sun Java VM 1.6 or higher must be installed on the end user machine. On Windows 7 64-bit versions, a 32-bit JVM is needed when using the Internet Explorer 32-bit version (the default) or Firefox browser.
 - ❑ The end user browser must be configured to use the VM as a plug-in.





Mobile Browser Support

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1 HF10.



Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				
HTML Composer pages				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format (<i>No JavaScript</i>)				
JavaScript components				
<input type="checkbox"/> Accordion <input type="checkbox"/> HFREEZE <input type="checkbox"/> On-demand Paging				
<input type="checkbox"/> Multi-drill				
<input type="checkbox"/> Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				
Browser-generated (AHTML)				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Interfaces				
Amper Auto-prompting				

Note:

- ❑ Web Query developer tools (InfoAssist) are not supported for mobile.
- ❑ Android Chrome does not natively support PDF or Excel. Third-party apps (for example, Documents to Go®, Adobe mobile) are required.

This documentation describes the new features available in the August 2014 - Hotfix 9 release.

This document is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

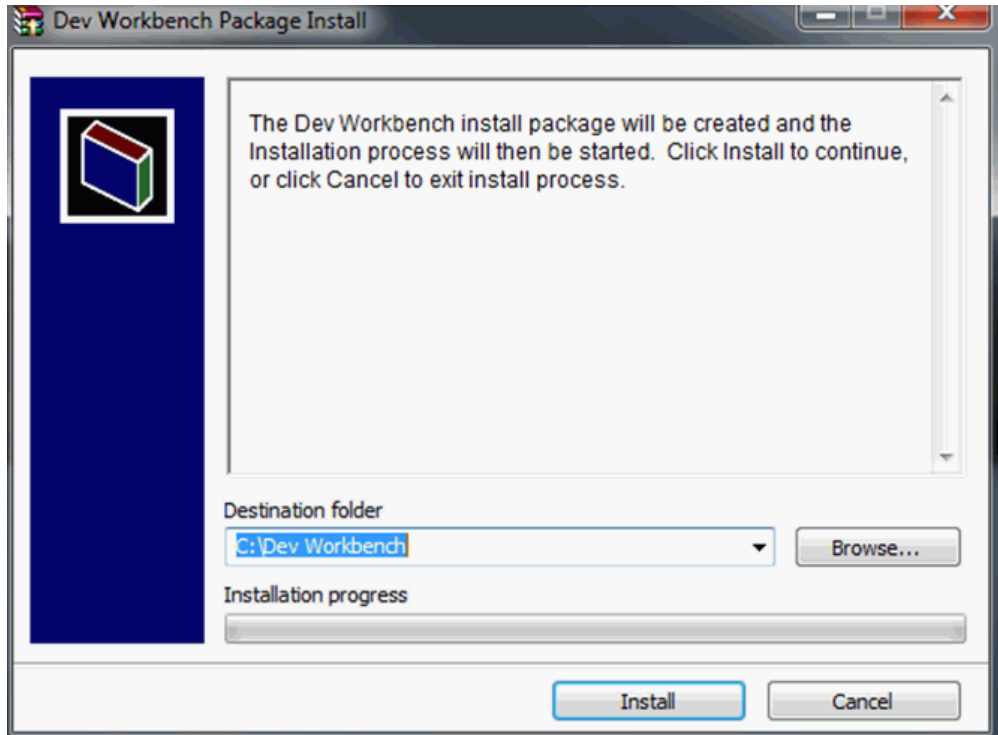
- ❑ [Changes to the Developer Workbench Download](#)
- ❑ [Workload Capping Controls](#)
- ❑ [InfoAssist Indicator Line](#)
- ❑ [Top-Level Folder Move Restrictions](#)
- ❑ [Changes in Behavior](#)
- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)
- ❑ [Mobile Browser Support](#)

Changes to the Developer Workbench Download

Due to its increasing size, the Developer Workbench client is now available for download as two files instead of one. To install the client, follow these steps:

1. Download the two files from the IFS directory /qibm/ProdData/QWEBQRY/DeveloperWorkbench to a Windows PC. Put both files in the same folder on the PC. Do not put them in separate folders.
2. Run WQDevWork80i_HF9.sfx.part1.exe.

The Dev Workbench Package Install dialog box displays, as shown in the following image.



Note: Clicking *Install* will create a new WQDevWork80i_HF9.exe file in the same folder where you are running WQDevWork80i_HF9.sfx.part1.exe. Optionally, you can change the destination folder for the new file.

3. Click *Install*. The WQDevWork80i_HF9.exe file will be created in the Destination folder. The WQDevWork80i_HF9.exe will then automatically run, and the Developer Workbench installation wizard will start.

Workload Capping Controls

The workload capping portion of the DB2 Web Query product limits the CPU resources that the product can use. This capping process is based on the licenses installed for the 5733WQX product, specifically the licenses for the *BASE (5050), Express (5101), and Standard (5102) features.

- ❑ If the product is in its trial period, that is, without any valid licenses installed, the product will be limited to use no more than one core of CPU resources.

- ❑ Once licenses are installed, the core limit specified on the licenses is used. For example, if a license for two cores of the Standard license (5102) is installed, the product will adjust to set its upper limit to no more than two cores of CPU resource. Note that the *BASE (5050) license should always be installed prior to installing either the Standard or Express license.

Under normal circumstances, DB2 Web Query will set the cap to allow the product to use all available licensed cores on a single partition. However, sometimes it is desirable to utilize, or 'share', a license across two or more partitions on a given system. This is called license sharing.

The product will honor this license sharing in three different ways:

1. **Capped Partitions.** If two or more partitions are defined to be capped partitions, and the sum of the capped partitions is less than or equal to the number of licensed cores of DB2 Web Query, then the same DB2 Web Query license(s) can be applied on those partitions and DB2 Web Query can run on all those partitions.
2. **User Specified capping.** The data area QWQREPOS/QWQWLCGRP can be created to communicate to the product how many cores to limit itself to on a given partition. The data area, created as a TYPE(*DEC) LEN(3), can be set to the number of cores that the partition should use.

Note: Cores must be specified in the data area as whole (integer) numbers. For example, limit the number of cores of DB2 Web Query on a partition to one core:

```
ENDWEBQRY
CRTDTAARA DTAARA(QWQREPOS/QWQWLCGRP) TYPE(*DEC) LEN(3) VALUE(1)
STRWEBQRY
```

When DB2 Web Query is restarted, the product will be limited to one core worth of CPU resource. If the license was for more than one core, then potentially the DB2 Web Query license(s) can be applied to another partition.

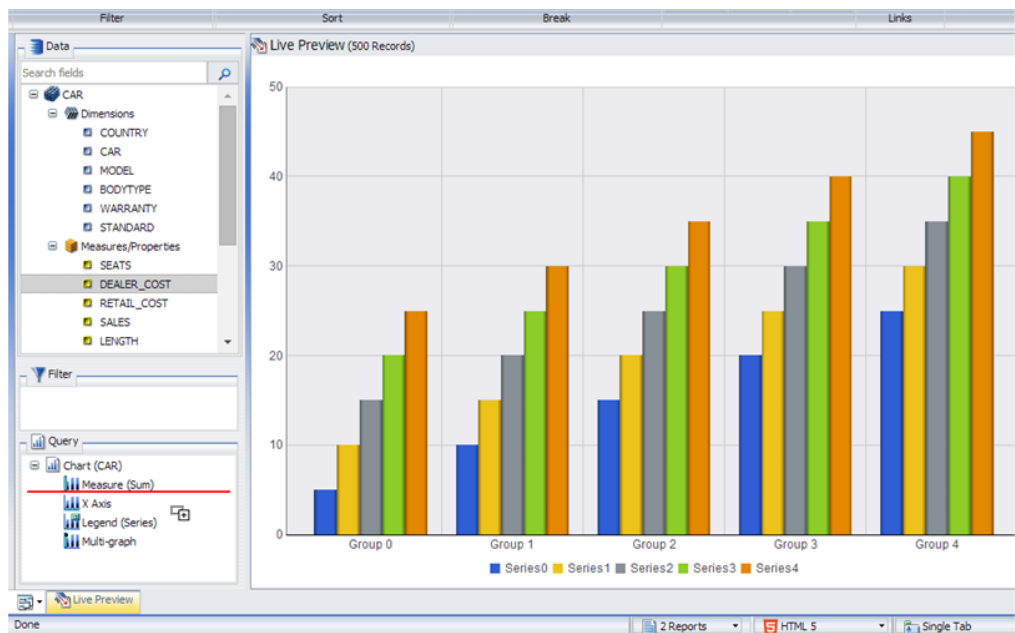
3. **Capped Partitions in conjunction with User Specified capping.** Both types of partition capping can be used together to share the licensing. For example, partitionA is a capped partition with a cap of .5. partitionB is a larger partition, but has the QWQREPOS/QWQWLCGRP data area set to 1. These two partitions can share a two core license, with .5 cores of the license potentially available for another capped partition.

Note: Whenever any changes to licensing or capping are made, DB2 Web Query should be ended and restarted to pick up the change. This can be accomplished with the ENDWEBQRY/STRWEBQRY commands, the WRKWEBQRY command, ending and restarting the QWEBQRY21 subsystem, or an IPL of the partition.

InfoAssist Indicator Line

- ❑ If you have more than one item in Sum, By, or Across field containers (for reports), or Measure (Sum) or X-axis field containers (for charts), you can drag them up or down in the Query or Filter pane to rearrange the order in which they display in your preview. When you drag fields to rearrange them, an indicator line displays, providing guidance as to where the field will be placed. Once you have performed the rearrangement, the canvas refreshes based on the newly indicated order.

As shown in the following image, the indicator line demonstrates that the DEALER_COST field was dragged into the Query pane (bottom left) as a Measure (Sum).



Top-Level Folder Move Restrictions

The following changes have been made to the top-level folders in the DB2 Web Query tree:

- ❑ Cut and Copy options have been removed from the right-click menu when using a top-level folder.
- ❑ You cannot drag a top-level folder into another top-level folder or subfolder.

If you want to move the contents of a top-level folder to another top-level folder or subfolder, use a multi-select copy of the contents within the top-level folder and paste the contents into the target top-level folder.

Changes in Behavior

This section addresses the changes in behavior in DB2 Web Query.

Developer Workbench SQL Wizard Procedures. The field names generated in an SQL Wizard procedure have changed from all numeric digits (for example, 00001), to a name containing the string 'FLD' concatenated with the numeric digits (for example, FLD00001). The reason for the change in behavior was that a field name containing only numeric digits could not be used in a Compute or Define statement. This limitation is no longer an issue.

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

JD Edwards Adapters

This section addresses the known issues for the JD Edwards Adapters.

To use the Alternate Language option in the Adapter for JD Edwards EnterpriseOne and the Adapter for JD Edwards World:

1. Configure the adapter with *UDC Direct File Access* unchecked.
2. Run the *Refresh Metadata* with *Alternate Language File* unchecked.

This step will create the udcicdb table.

3. Run the *Refresh Metadata* with *Alternate Language File* checked and enter the default language code.

This step will create the altdicdb table.

4. Create all the synonyms needed.

Note: Step 2 and step 3 will need to be run, as needed, whenever UDC descriptions are updated.

InfoAssist

This section addresses the known issues for InfoAssist.

- ☐ Some navigation and arrow keys (for example, Delete, Home, and End) do not work in the following areas of the application:
 - ☐ Field edit box of the DEFINE dialog box.
 - ☐ Text input box for Prompts (Delete key).

- ❑ Field edit box of the COMPUTE dialog box (Delete and arrow keys).
- ❑ Join Description of the Edit Join dialog box (arrow keys).

Workaround: Use the mouse and Backspace key.

Note: This applies to Firefox versions 27.0.01 and higher.

- ❑ Prior to Hotfix 7, you could specify an application theme in InfoAssist by clicking the *Options* button on the InfoAssist main menu. In Hotfix 7 and higher, the application theme is retrieved from BI Portal. However, there is no way to customize the theme of BI Portal. This will be resolved in the next Hotfix.

Report Broker

This section addresses the known issues for Report Broker.

- ❑ Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSService - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter - Failed
to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

The distribution list will be migrated as a private object. To make this published:

1. Move the distribution list to a published folder.
2. Right-click on the distribution list and select the *Publish* option.

- ❑ Schedules may not run when using custom date intervals.

Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in the next Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

DB2 Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- ❑ Excel Pivot output type
- ❑ Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

RESTful Web Services

The current implementation of RESTful web services does not support the following objects:

- ❑ HTML Composer documents
- ❑ OLAP reports
- ❑ InfoMini reports
- ❑ Reports using Powerpoint output format
- ❑ Lightweight Maps

Support for these objects will be available in a future version of DB2 Web Query, with the exception of InfoMini reports. It is likely that InfoMini reports will never be supported.

National Language Support

This section addresses the known issues for National Language Support (NLS).

In Turkish, running an active Flash or active PDF report in InfoAssist or from BI Portal generates a FOC3357 error.

Workaround: Edit the /qibm/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /qibm/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Reporting Server

The Edit metadata option on the Create Synonym status page has been removed. Use the Synonym Editor to edit the Title, Description, and Format attributes.

Documentation


In the Report Broker documentation, in the *Web Query Developer User Interface* section of the *Using the Reporting Interface* chapter, the *Using Right-Click Options in the Repository Tree* topic has a distribution method of DB2 Web Query. This method has been renamed to Repository. The updated documentation is as follows:


Schedule. Sets the distribution method for the schedule.


- ☐ **Email.** Distributes the report through email.
- ☐ **FTP.** Distributes the report through FTP.
- ☐ **Printer.** Distributes the report to one or more printers.
- ☐ **Repository.** Distributes the report back to a folder.


Web Browser Support


The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF9.











 Supported

 Supported with minor issues

 Under evaluation

 Not evaluated

 Not supported

Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v29	Safari v7.0.3	Chrome v34
Reporting					
Active Reports					
HTML Composer pages					

Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v29	Safari v7.0.3	Chrome v34
InfoAssist					

HTML Reporting Features




































HTML format (No JavaScript)					
JavaScript components	Standards Mode				
<input type="checkbox"/> Accordion	Compatibility View				
<input type="checkbox"/> HFREEZE					
<input type="checkbox"/> On-demand Paging					
<input type="checkbox"/> Multi-drill					
<input type="checkbox"/> Table of Contents (BYTOC)					

Graph Requests

(See Graph request notes below for additional information)

Server-generated graphs					
Browser-generated (HTML5)					
Browser-generated (AHTML)					
Browser-generated (AFLEX, APDF)					

Interfaces

Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Firefox v29	Safari v7.0.3	Chrome v34
Amper Auto-prompting					
BI Portal					
Developer Workbench (Requires Internet Explorer)					
OLAP					
Report Broker					
Administration Tools					
Security Center					
Web Query Administration Console					

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer, and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer, and will always use the Internet Explorer browser, even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.

- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Graph request notes:
 - ❑ Server-generated graphs refer to traditional graph requests that are generated on the Reporting Server, and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
 - ❑ Bitmap: PNG, JPG
 - ❑ Vector: PDF (but not active PDF), SVG
 - ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode that is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

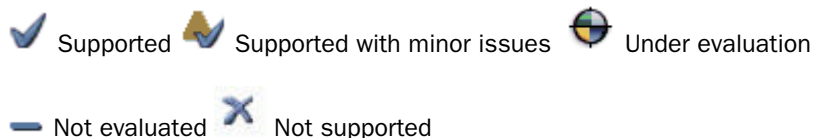
Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.





















- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
 - ❑ Adobe X is certified.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.
- ❑ A Java VM on the user machine is required for viewing migrated applet-based graph output created in previous 1.1.x releases. For the web browser to process applets, the following is needed:





























- ❑ Sun Java VM 1.6 or higher must be installed on the end user machine. On Windows 7 64-bit versions, a 32-bit JVM is needed when using the Internet Explorer 32-bit version (the default) or Firefox browser.
- ❑ The end user browser must be configured to use the VM as a plug-in.

Mobile Browser Support

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1 HF9.



Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				
HTML Composer pages				
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format (<i>No JavaScript</i>)				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
JavaScript components				
<input type="checkbox"/> Accordion <input type="checkbox"/> HFREEZE <input type="checkbox"/> On-demand Paging				
<input type="checkbox"/> Multi-drill				
<input type="checkbox"/> Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				
Browser-generated (AHTML)				
Interfaces				
Amper Auto-prompting				

Note:

- ☐ Web Query developer tools (InfoAssist) are not supported for mobile.
- ☐ Android Chrome does not natively support PDF or Excel. Third-party apps (for example, Documents to Go®, Adobe mobile) are required.

This documentation describes the new features available in the April 2014 - Hotfix 8 release.

It is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [IBM WebSphere Liberty Profile](#)
- ❑ [Business Intelligence Portal Enhancement](#)
- ❑ [InfoAssist Drill Down, Optional Where Clauses, and Portal Refresh](#)
- ❑ [InfoAssist Lightweight Mapping](#)
- ❑ [Report Broker Enhancement](#)
- ❑ [Developer Workbench Enhancement](#)
- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)
- ❑ [Mobile Browser Support](#)

IBM WebSphere Liberty Profile

The new IBM® WebSphere® Liberty profile has replaced Light Weight Infrastructure (LWI) as the underlying application server run-time environment for Web Query. The following minimum level HTTP group PTFs include the Liberty support, and are required for Hotfix 8:

- ❑ i OS 6.1 - SF99115 Level 37
- ❑ i OS 7.1 - SF99368 Level 26
- ❑ i OS 7.2 - SF99713 Level 1

Liberty uses the same port assignments as LWI did, however, the names of the four server jobs associated with ports 12331, 12336, and 12338 have changed from WQLWI80 to WQLIB85 in the QWEBQRY21 subsystem. The other visible change with Liberty is that a new WQLIB85 directory exists in /qibm/UserData/qwebqry.

Business Intelligence Portal Enhancement

New functionality has been added that allows one report or chart to filter another report or chart on a BI Portal page. This feature is implemented using the InfoAssist Portal Refresh feature.

InfoAssist Drill Down, Optional Where Clauses, and Portal Refresh

You can use new drill-down functionality, which allows one report or chart to filter another report or chart in the BI Portal. You can also use Optional Where clauses to enable reports and charts to accept the filter.

Procedure: How to Drill Down on a Data Element in a Report

You can use this procedure to create a drill down in your report.

1. Create a report, as shown in the following image.

Data

Values

Product

Product

Product,Category

Product,Subcategory

Model

Product Name

Values

Filter

Query

Report (WF_RETAIL)

Sum

Gross Profit

By

Product,Category

Region

Across

Live Preview (500 Records)

Product Category	Region	Gross Profit
Stereo Systems	Central	812,89
	MidEast	216,96
	NorthEast	963,50
	NorthWest	137,98
	SouthEast	1.408,97
	SouthWest	43,30
Televisions	West	1.483,38
	Central	1.529,98
	MidEast	2.090,89
	NorthEast	3.349,25
	NorthWest	208,99
	SouthEast	4.371,18
Video Players	SouthWest	63,99
	West	2.419,57
	Central	904,37
	MidEast	776,90
	NorthEast	567,95
	NorthWest	149,99
Video Production	SouthEast	189,94
	SouthWest	399,96
	West	1.133,89
	Central	305,40
	NorthEast	203,99
	NorthWest	80,10
	West	241,05

2. Select a field, for example, *Region*.
3. On the Field tab, in the Links group, click *Hyperlink*.

The Drill Down dialog box displays.

4. Select the *Refresh BI Portal* radio button.
5. Add a drill down on the *Region* field, as shown in the following image.

Drill Down

☐ Report
 ☐ Web Page
 ☒ Refresh BI Portal

Refresh
 Current Page

Alternate comment

Target
 New Window

Parameters

Name	Value
PRODUCTCATEGORY	WF_RETAIL.DIM_PRODUCT.PRODUCT_CATEGORY
REGION	WF_RETAIL.DIM_GEOGRAPHY.REGION

6. Click *OK*.

Procedure: How to Filter a Report Using Optional Where Clauses

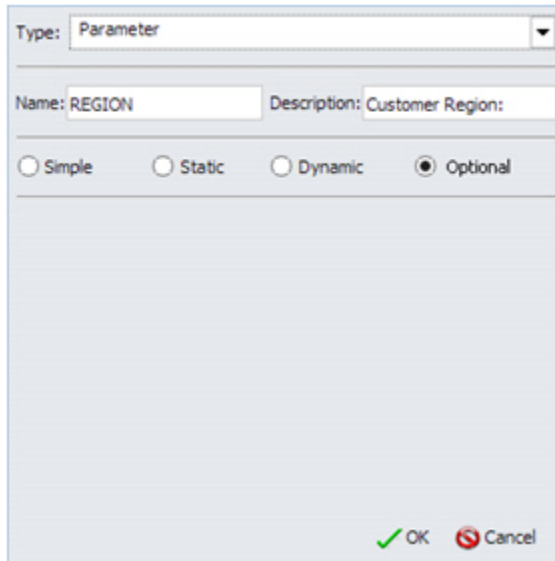
You can use this procedure to build a report that will get filtered.

1. Create a report using two or more components, one of which will be filtered. For example, using the data elements State and Quantity Sold, as shown in the following image, you can define related filters.

State	Quantity Sold
Alabama	2
Alaska	4
Arizona	5
Arkansas	3
California	31
Colorado	6
Connecticut	2
Delaware	1
Florida	15
Georgia	14
Hawaii	1
Illinois	4
Indiana	1
Iowa	3
Kansas	2
Kentucky	1
Louisiana	2
Maine	3
Maryland	7
Massachusetts	6
Michigan	3
Minnesota	10
Mississippi	2

2. On the Data tab, in the Filter Group, select *Advanced Filter*.
The Advanced Filter dialog box opens.
3. Select a field for which to define a Where clause.
4. Select a comparison operator, for example, *Equal to*.
5. Click *Value* to enable a drop-down list.

6. Select *Parameter*.
7. Click the *Optional* radio button, as shown in the following image, to define this Optional Where clause.



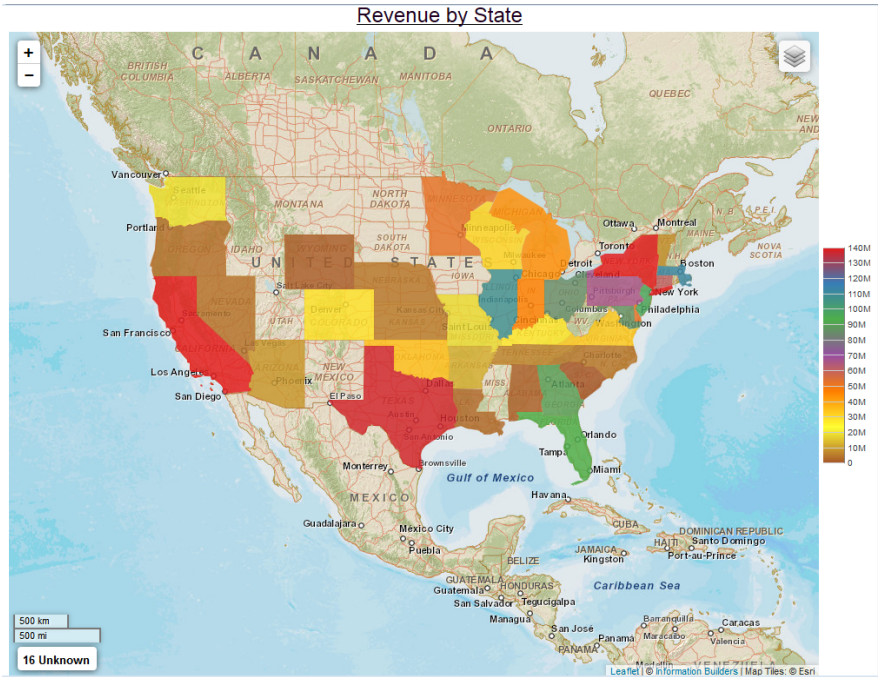
The image shows a dialog box for defining a parameter. It has a 'Type' dropdown menu set to 'Parameter'. Below this are two text fields: 'Name' with the value 'REGION' and 'Description' with the value 'Customer Region:'. Underneath the text fields are four radio buttons: 'Simple', 'Static', 'Dynamic', and 'Optional'. The 'Optional' radio button is selected, indicated by a filled circle. At the bottom right of the dialog box are two buttons: 'OK' with a green checkmark icon and 'Cancel' with a red 'X' icon.

Note: An Optional Where clause is added for both Product Category and Region.

8. Click *OK* to close the Parameter dialog box.
9. Click *OK* to close the Create a filtering condition dialog box.

InfoAssist Lightweight Mapping

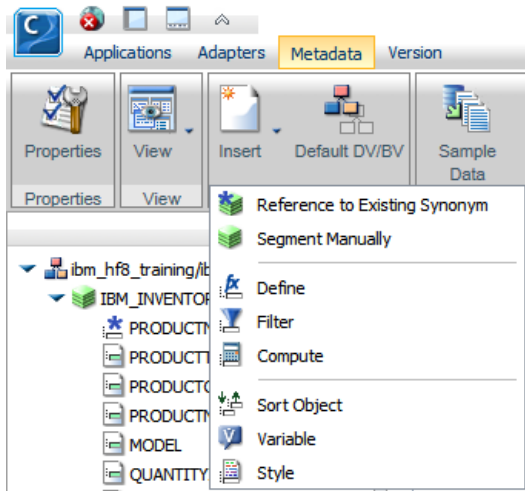
ESRI, the leading developer of geographic information system (GIS) software, is now providing the maps used in the InfoAssist lightweight mapping feature. ESRI maps provide more detail and are more appealing to the eye, as shown in the following image.



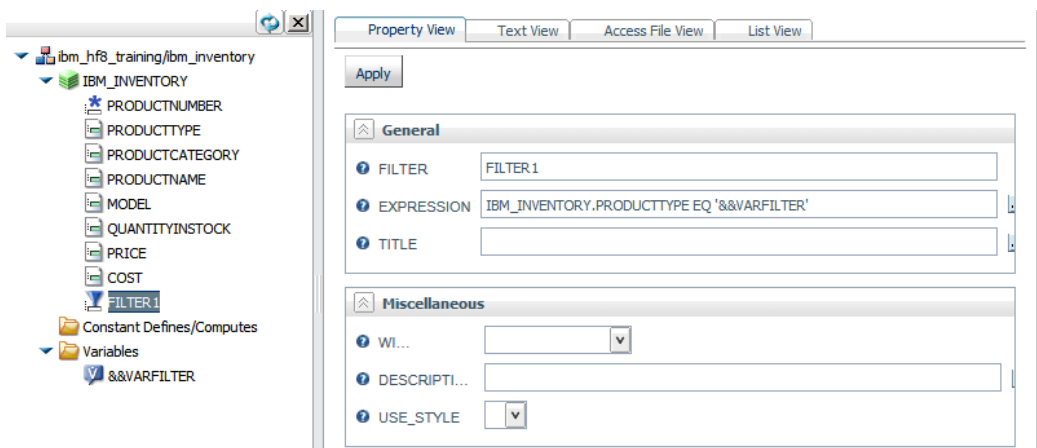
Report Broker Enhancement

The Report Broker Scheduling tool supports global variables that are defined in a synonym filter and subsequently referenced by a procedure.

For example, you can insert a global variable and a filter, called `&VARFILTER` and `FILTER1` respectively, into a synonym. This can be done using the Insert button on the Synonym Editor toolbar, as shown in the following image.



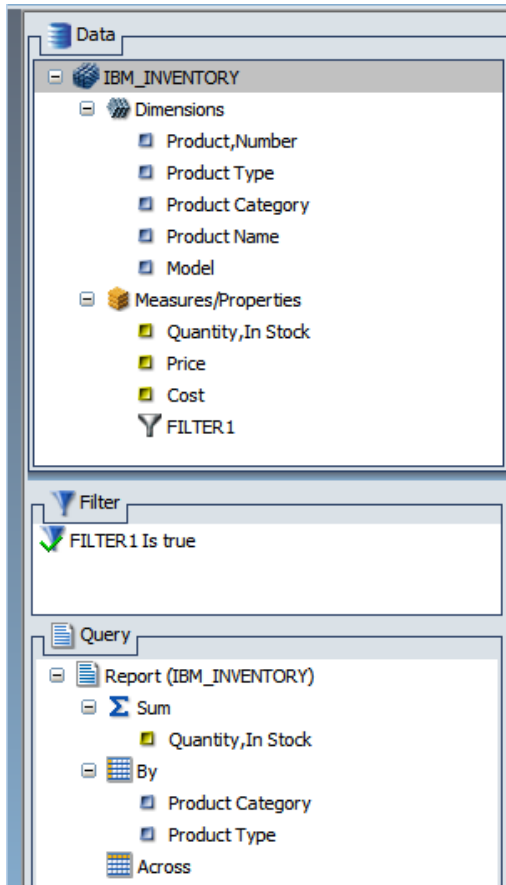
The filter can be associated with a global variable, using an expression. In this example, `FILTER1` is associated with the field `PRODUCTTYPE` equal to the global variable, as shown in the following image.



This produces the following syntax in the synonym:

```
FILTER FILTER1=PRODUCTTYPE EQ '&&VARFILTER'; $
```

A filter defined in the synonym in this manner is treated as a Boolean virtual field. A procedure can be created using the filter, FILTER1, as shown in the following image.



This results in the following syntax in the procedure:

```
WHERE FILTER1
```

A schedule can be created for the procedure using the Report Broker Scheduling tool. Clicking on the Scheduling tool Parameters button will display the global variable, VARFILTER, in the Task Parameters window, as shown in the following image.

The screenshot shows the 'Task Parameters' window with a table and a 'Parameter Properties' section.

Name	Description	Value	Use Default
VARFILTER		Audio	

Buttons: Up, Down, New, Delete, Refresh

Parameter Properties

Type: Report Defined (Global)

Name: VARFILTER

Description:

Value: Audio

Default Value: Video

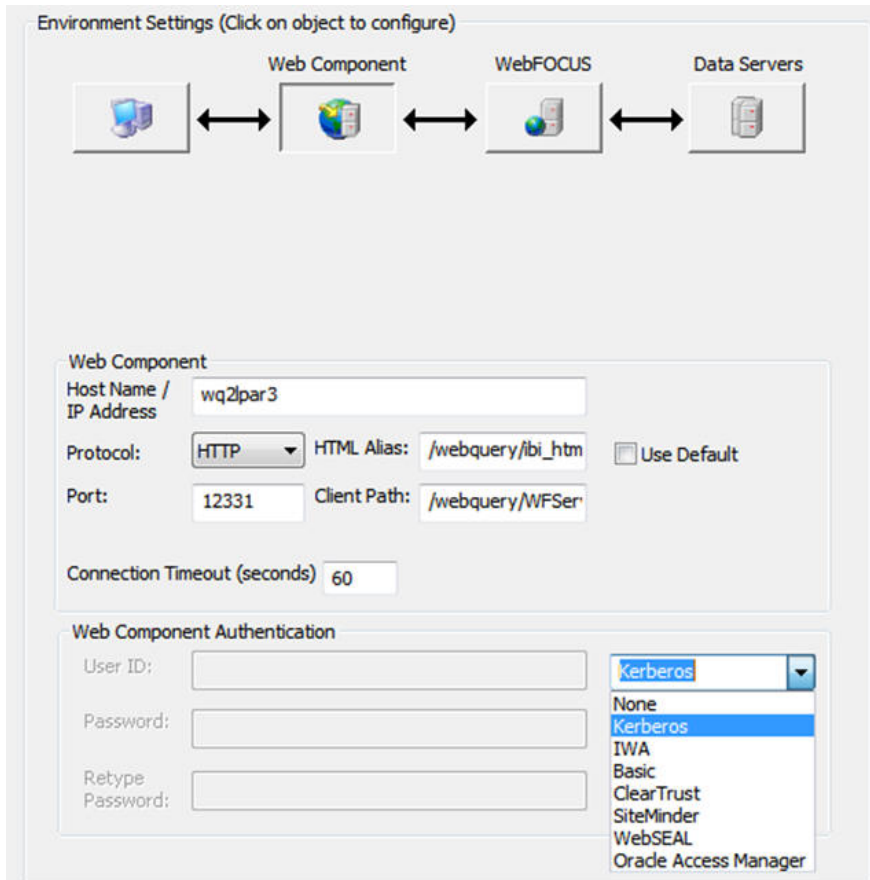
☐ Always Use Default Value Specified in the Procedure

Data Type: Minimum: Maximum:

At this point, the user can provide a value for the global variable, VARFILTER, to filter the values of the scheduled procedure.

Developer Workbench Enhancement

The Kerberos authentication option has been added to the drop-down list in the Web Component Authentication area of the Environment Properties dialog box, as shown in the following image.



The Kerberos setting:

- ❑ Can be selected to enable SSO for Developer Workbench when Web Query itself is enabled for SSO.
- ❑ Provides a more intuitive selection than IWA for Web Query users.

Note: Both IWA and Kerberos will enable SSO, so existing users who have already enabled SSO through the IWA setting do not need to change.

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

InfoAssist

This section addresses the known issues for InfoAssist.

Prior to Hotfix 7, you could specify an application theme in InfoAssist by clicking the *Options* button on the InfoAssist main menu. In Hotfix 7 and higher, the application theme is retrieved from the BI Portal. However, there is no way to customize the theme of the BI Portal. This will be resolved in the next Hotfix.

Report Broker

This section addresses the known issues for Report Broker.

- ❑ Migration of Public Distribution Lists will generate the following error:

```
ERROR IBFSservice - setShares -
opShareBasic/opShareAdvanced to this resource denied - user:qwqadmin
res:/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr
[2014-03-11 00:00:00,605] ERROR IBFSAddrBookConverter - Failed
to share
'/WFC/Repository/untitled/ReportBroker/~ownerID/distribution_list.adr'
with IBFS:/SSYS/GROUPS/EVERYONE
```

The distribution list will be migrated as a private object. To make this published:

1. Move the distribution list to a published folder.
2. Right-click on the distribution list and select the *Publish* option.

- ❑ Schedules may not run when using custom date intervals.

Workaround: Use a different recurring interval, such as monthly or weekly. This will be fixed in the next Hotfix.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- ❑ Excel Pivot output type
- ❑ Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

RESTful Web Services

The current implementation of RESTful web services does not support the following objects:

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- ❑ OLAP reports
- ❑ InfoMini reports
- ❑ Reports using Powerpoint output format
- ❑ Lightweight Maps

Support for these objects will be available in a future version of DB2 Web Query, with the exception of InfoMini reports. It is likely that InfoMini reports will never be supported.

National Language Support

This section addresses the known issues for National Language Support (NLS).

In Turkish, running an Active Flash or Active PDF report in InfoAssist or from the BI Portal generates a FOC3357 error.

Workaround: Edit the /qibm/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

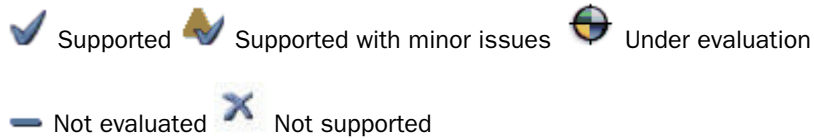
```
ENCODING = Cp1026
```












































Also, edit the /qibm/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

```
;JSCOM3 Listener
NODE = JSS
BEGIN
    PROTOCOL = TCP
    CLASS = JAVASERVER
    PORT = 12335
    AWT_HEADLESS = Y
    JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
    JVM_MAX_HEAP = 512
    IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```







Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF8.



Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8 (32-bit)	Firefox v26	Safari v7.0.1	Chrome v31
Reporting						
Active Reports						
HTML Composer pages						
InfoAssist						
HTML Reporting Features						
HTML format (No JavaScript)						
JavaScript components	Standards Mode 					
<input type="checkbox"/> Accordion	Compatibility View 					
<input type="checkbox"/> HFREEZE						
<input type="checkbox"/> On-demand Paging						
<input type="checkbox"/> Multi-drill						
<input type="checkbox"/> Table of Contents (BYTOC)						

Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8 (32-bit)	Firefox v26	Safari v7.0.1	Chrome v31
Graph Requests						
(See Graph request notes below for additional information)						
Server-generated graphs						
Browser-generated (HTML5)			Flash needed 			
Browser-generated (AHTML)						
Browser-generated (AFLEX, APDF)						
Interfaces						
Amper Auto-prompting						
BI Portal						
Developer Workbench (Requires Internet Explorer)						
OLAP						
Report Broker						
Administration Tools						
Security Center						

Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8 (32-bit)	Firefox v26	Safari v7.0.1	Chrome v31
Web Query Administration Console						

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer and will always use the Internet Explorer browser even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) support image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Graph request notes:
 - ❑ Server-generated graphs refers to traditional graph requests that are generated on the Reporting Server and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
 - ❑ Bitmap: PNG, JPG
 - ❑ Vector: PDF (but not active PDF), SVG






- ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode which is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).

























Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.

























- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
 - ❑ Adobe X is certified.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.
- ❑ A Java VM on the user machine is required for viewing migrated applet-based graph output created in previous 1.1.x releases. For the web browser to process applets, the following is needed:
 - ❑ Sun Java VM 1.6 or higher must be installed on the end user machine. On Windows 7 64-bit versions, a 32-bit JVM is needed when using the Internet Explorer 32-bit version, which is the default, or Firefox browser.
 - ❑ The end user browser must be configured to use the VM as a plug-in.

Mobile Browser Support

The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1 HF8.

 Supported
  Supported with minor issues
  Under evaluation
 Not evaluated
  Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				
HTML Composer pages				
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format (<i>No JavaScript</i>)				
JavaScript components				
<input type="checkbox"/> Accordion				
<input type="checkbox"/> HFREEZE				
<input type="checkbox"/> On-demand Paging				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
❑ Multi-drill				
❑ Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				
Browser-generated (AHTML)				
Interfaces				
Amper Auto-prompting				

Note:

- ❑ Web Query developer tools (InfoAssist) are not supported for mobile.
- ❑ Android Chrome does not natively support PDF or Excel. Third-party apps (for example, Documents to Go®, Adobe mobile) are required.

This documentation describes the new features available in the January 2014 - Hotfix 7 release.

It is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [InfoAssist Lightweight Mapping Feature](#)
 - ❑ [InfoAssist Enhancements](#)
 - ❑ [Report Broker Enhancements](#)
 - ❑ [Security](#)
 - ❑ [Adapter for JD Edwards](#)
 - ❑ [STRWEBQRY Command](#)
 - ❑ [DB2 for z/OS Support](#)
 - ❑ [DB2 Web Query REST-based Application Extension](#)
 - ❑ [Kerberos Support for DB2 Web Query](#)
 - ❑ [Known Issues](#)
 - ❑ [Web Browser Support](#)
 - ❑ [Mobile Browser Support](#)
-

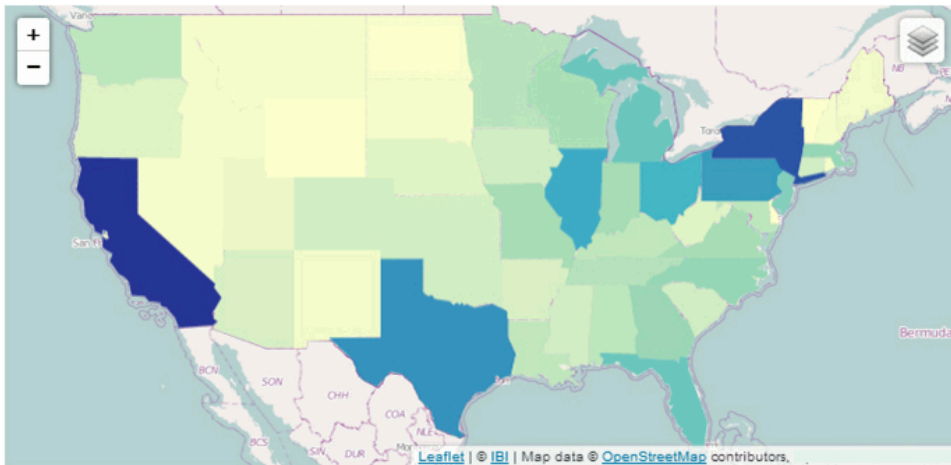
InfoAssist Lightweight Mapping Feature

The Lightweight Mapping functionality enables you to display your underlying data regionally. Using the Geographic Information System (GIS) capabilities that are built into Web Query, the map functionality converts data values into maps that can be used for visualizing patterns or trends. More specifically, data that is bound to a geo-location, such as State, Country, and ZIP Code, can be viewed as symbol layers integrated into a powerful map viewer. The mapping functionality supports a variety of popular formats, such as bubble markers and heat-filled polygons (also known as Choropleths). These map formats are described below.

- ❑ **Choropleth.** A geographically-based heat map. It is useful for visualizing location-based data, trends, and distributions across a geographic area.
- ❑ **Proportional Symbol (Bubble).** A technique that uses symbols of different sizes to represent data associated with different areas or locations within the map.

For information on creating a map, see [How to Create a Map](#) on page 167.

The following image illustrates one of the types of maps that can be generated.



The mapping architecture features an HTML5 map viewer with zoom, pan, and scale controls. It also includes a mapping server with nine levels of zoom.

Note: You can use the plus (+) and minus (-) symbols within the map to zoom in and out of different areas of the map. You can also click your left mouse button to zoom in.

Like all HTML5 visualizations, the highlighted markers and regions on the maps support drill, multi-drill, and informational tooltips.

When to use: The Lightweight Mapping functionality enables business users to make informed decisions. They can also visualize patterns, trends, and relationships related to the location information in their data.

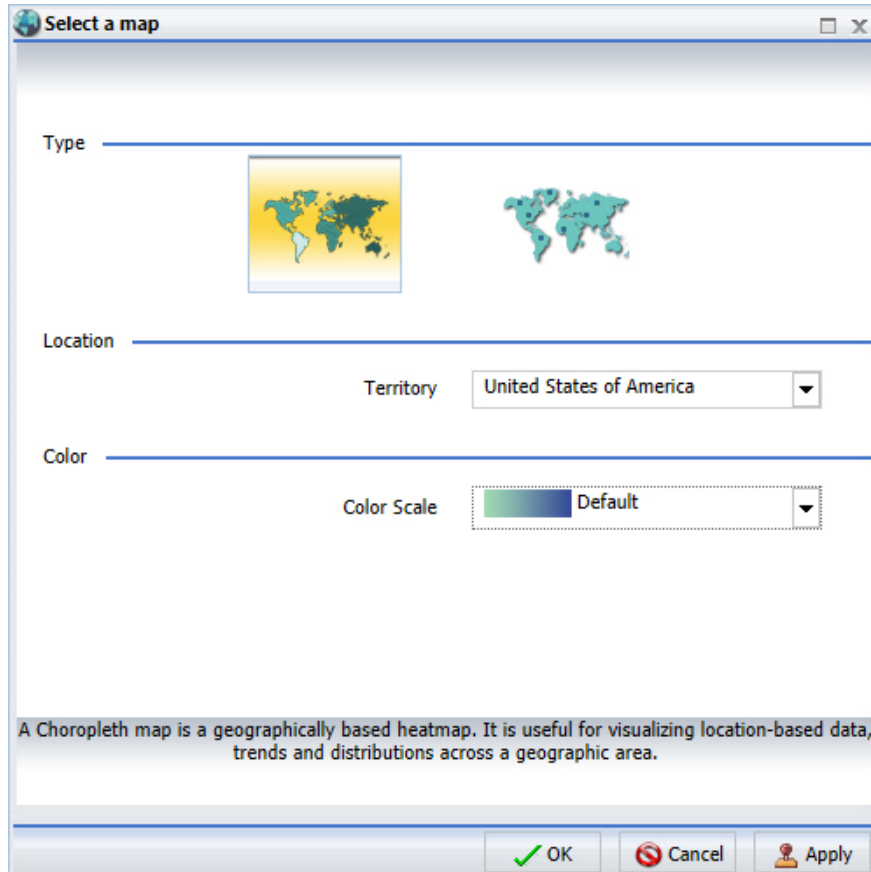
Procedure: How to Create a Map

You use the Lightweight Mapping functionality to create a map in InfoAssist.

Note: You must use the HTML5 output format to access this functionality.

1. Launch InfoAssist in Chart mode.
2. On the Format tab, in the Chart Types group, click *Map*,

The Select a map dialog box opens, as shown in the following image.

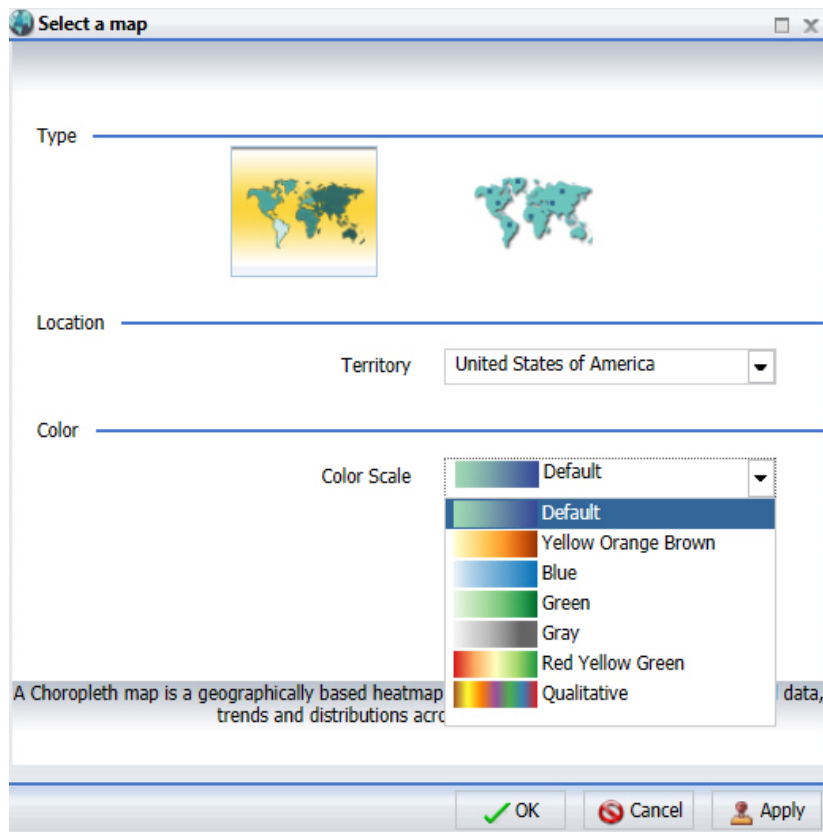


3. From the Type group, select *Proportional Symbol (Bubble)* or use the default selection, *Choropleth*.
4. From the Location group, using the Territory drop-down list, select a territory (for example, United States of America).

Note: This section allows you to pick geographic locations for which maps are available. You can select a territory option from the drop-down list. For example, some of the available territories include World, Europe, or United States of America.

5. From the Color group, using the Color Scale drop-down list, select a color scale. For example, Qualitative.

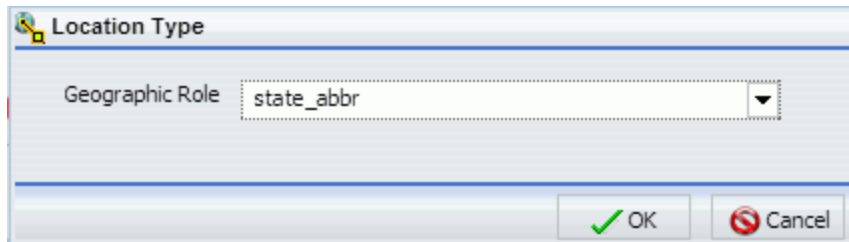
Note: This section allows you to pick a color scale for a Choropleth chart, as shown in the following image. For a Proportional Symbol (Bubble) map, the color selection option is disabled.



6. Click *OK*.
7. Add the following dimensions to the chart:
 - a. Measure. For example, Discount.
 - b. Location field. For example, State.

The Location Type dialog box opens, as shown in the following image.

Note: The Location Type is needed for geocoding, which is a process through which fields are assigned to a specific geographic dimension (for example, ZIP Code, State, or Country) so that it can be matched correctly to the geographic coordinates. The geocoding process will occur once you add a geographic field to the Location data container.

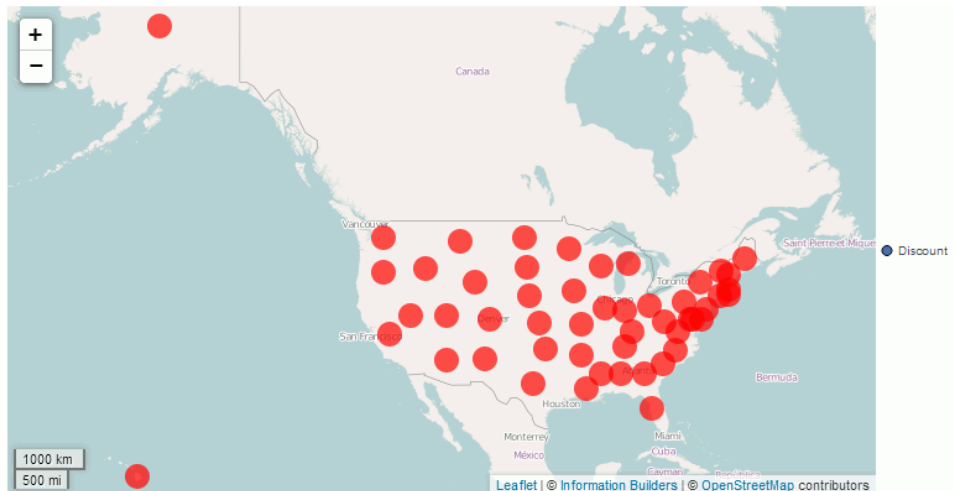


Note: You can also access the Location Type dialog box by right-clicking on the *Location* dimension in the Query Design pane. From the menu, select *Geographic Role*. The Location Type dialog box opens, from which you can make a selection.

8. From the Geographic Role drop-down list, select a *state_name*.
9. Click *OK*.

The map displays based on your data and selections for Type, Location, and Color.

For example, the following map shows the geographic location, using a Proportional Symbol map, of Discount data by State in the United States.

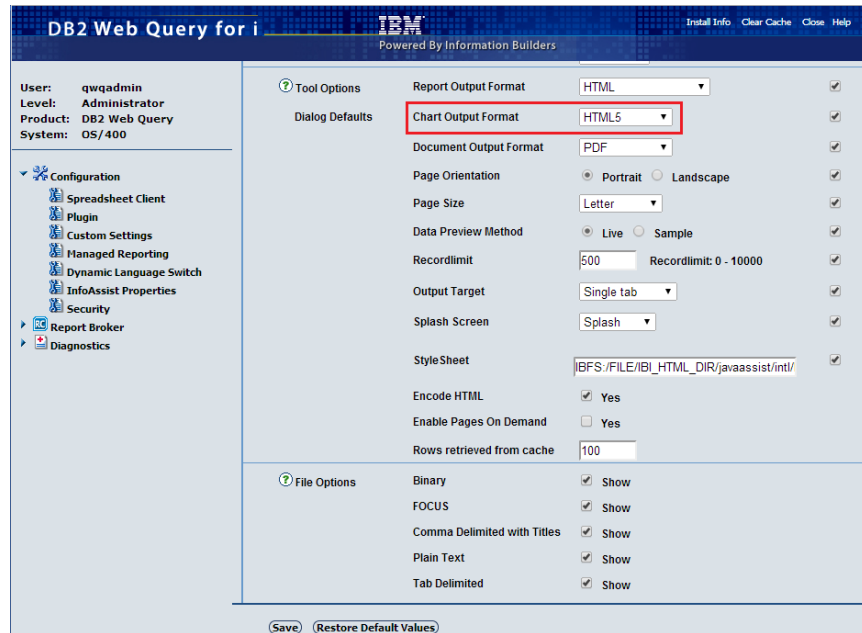


InfoAssist Enhancements

The following are new feature enhancements for InfoAssist.

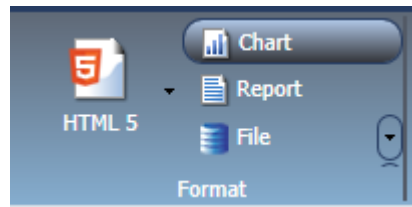
- ❑ HTML5 support was introduced with DB2 Web Query Version 2.1. It is the new web standard for constructing and viewing interactive content on the web and is supported by all the major browsers. The new Lightweight Mapping feature requires HTML5. It is recommended that you set the InfoAssist default Chart output format to HTML5. To change the setting for this property:
 1. Sign in to DB2 Web Query with the QWQADMIN user ID.
 2. Launch the Administration Console.
 3. Select *Configuration* and then select *InfoAssist Properties*.

4. Scroll down to the Tools Options Dialog Defaults section and change the Chart Output Format option to HTML5, as shown in the following image.



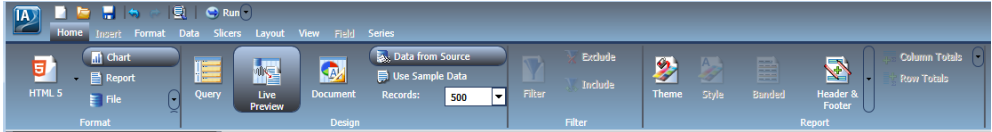
5. Click Save.
6. Click Close to exit the Administration Console.

Creating a new chart with InfoAssist will now have HTML5 as the default format on the InfoAssist ribbon, as shown in the following image.



- Documents that are developed with images, for example, a corporate logo, will now have the image embedded. This will allow the image to be visible by all supported browsers. Prior to Hotfix 7, if a document had an image, an archive file was automatically created and was only viewable by Internet Explorer browsers.

- ❑ A darker, modern theme has been applied to InfoAssist, as shown in the following image.

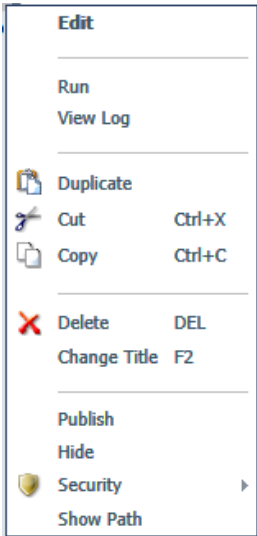


Report Broker Enhancements

The following are new feature enhancements for Report Broker.

Publish and Hide Options

Two options, Publish and Hide, have been added to control access to schedules. These new options are available from the Repository tree by right-clicking on a schedule, as shown in the following image.



Publish and Unpublish. An owner of a schedule can make a schedule available to other members of the top-level folder in which the schedule resides. The schedule owner remains the execution ID. The following table describes the right-click menu options permitted to the different groups associated with a top-level folder.

Top-Level Folder (TLF) Group Name	Right-click Option					
	Run	View Log	Edit	Publish / Unpublish	Security	Hide / Show
TLF-run	✓	✗	✗	✗	✗	✗
TLF-analyst	✓	✗	✗	✗	✗	✗
TLF-dev	✓	✗	✗	✓	✓	✓
TLF-dba	✓	✗	✗	✗	✗	✗
TLF-sched	✓	✓	✗	✗	✗	✗
TLF-admin	✗	✗	✗	✗	✗	✗
WebQueryAdministrator	✓	✓	✓	✓	✓	✓

Note:

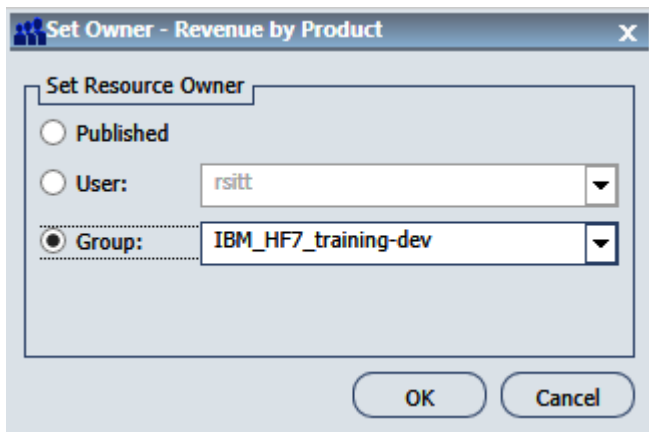
- ❑ In order for a user to Edit a published schedule, they must be a member of both the TLF-dev and TLF-sched groups.
- ❑ The default setting is Unpublish.

Hide and Show. Once an owner publishes a schedule, they can elect to Hide the schedule from all TLF-* groups, except the TLF-dev and WebQueryAdministrator groups. To hide or show a schedule, right-click on a schedule and select the *Hide* or *Show* option.

Note: The default setting is Show.

Security Group Ownership

An alternative to publishing a schedule is to set the owner of the schedule to a group. The owner of a schedule can set the owner of a schedule to the top-level folder-dev group. To do this, right-click on a schedule, click *Security*, and then select the *Owner* option. The Set Owner dialog box opens, as shown in the following image.



Select the *Group* radio button and then click *OK*.

In the example above, the schedule resides in a top-level folder IBM_HF7_training. Anyone belonging to the IBM_HF7_training-dev group will have access to the schedule, as defined in the table in [Publish and Hide Options](#) on page 172.

Data Bars

Report Broker reports distributed by email or FTP methods will show data bars, if the option was set on the original report.

Security

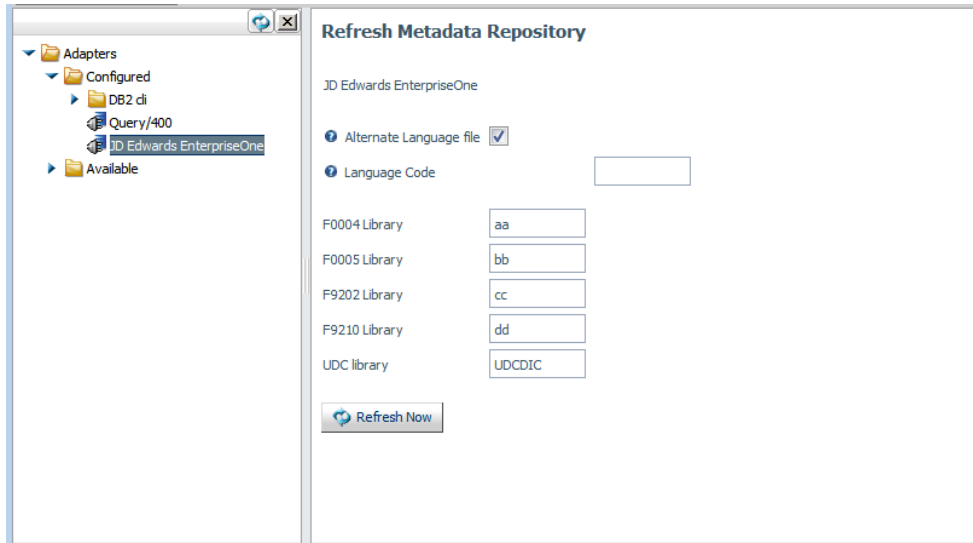
The QWQADMIN profile does not require the following special authorities:

`SPCAUT(*SAVSYS *JOBCTL *IOSYSCFG)`

Applying the Hotfix 7 PTF will remove these authorities.

Adapter for JD Edwards

The Adapter for JD Edwards has a new Alternate Language file option to support UDC descriptions in a language other than English. The Alternate Language option is found on the Adapter for JD Edwards Refresh Metadata Repository dialog box, as shown in the following image.



Select *Alternate Language file* to add support for non-English UDC descriptions.

STRWEBQRY Command

A new check has been added to the STRWEBQRY (Web Query startup) process to ensure that the CCSID (Coded Character Set ID) of the QWQADMIN user profile is not set to 65535 (or is not set to *SYSVAL and the QCCSID system value is set to 65535).

In the past, many customers with this 65535 configuration, have encountered problems when trying to create synonyms. When using the Synonym creation tool, the *No candidate objects found* error was thrown when the tool was trying to query the system catalogs for files to create synonyms. The CCSID check was added to the Web Query startup process to prevent the occurrence of the *No candidate objects found* error during synonym creation.

If you have the CCSID of the QWQADMIN user profile set to 65535 (or set to *SYSVAL and the QCCSID system value is set to 65535), the following error is thrown when the STRWEBQRY command is issued:

CPF9898 - Web Query failed to start! CCSID of user profile QWQADMIN cannot be 65535.

The solution is to change the CCSID of QWQADMIN to the one recommended for your country in the table provided in the following link:

<http://pic.dhe.ibm.com/infocenter/iseries/v7r1m0/index.jsp?topic=%2Fnl%2Fbagssysuplocalesourcedef.htm>

For example, US English customers would issue the following command:

```
CHGUSRPRF USRPRF(QWQADMIN) CCSID(37)
```

Then, issue the STRWEBQRY command again.

DB2 for z/OS Support

When DB2 for LUW (Linux®, UNIX®, Windows®) support was introduced in Hotfix 4, DB2 for z/OS was inadvertently omitted from the documentation. It is also supported. DB2 Web Query automatically detects an LUW or z/OS connection and sets the correct isolation level. There is no need to perform any additional configuration steps besides entering the standard Adapter for DB2 connection parameters.

DB2 Web Query REST-based Application Extension

WQRAX is the DB2 Web Query REST-based Application Extension. This is a new Standard Edition only feature that allows a DB2 Web Query reporting object to be run and the output presented by invoking a URL. It allows web browsers or other web applications to easily run and display those reports directly from an application and eliminates the need for users to sign in to the DB2 Web Query BI Portal, locate a report, and run it. This extension is the strategic successor to the WQSOA (SOAP-based) Application Extension. For more information, see the WQRAX administration document at <http://ibm.co/db2wqAppExtn>.

Kerberos Support for DB2 Web Query

IBM DB2 Web Query for i now supports single sign on (SSO) using Simple and Protected GSS-API Negotiation Mechanism (SPNEGO) in a Kerberos-based web serving environment. New in Hotfix 7 is a Configure Web Query for SSO (CFGWQSSO) command that simplifies setup. The command supports optional zoning of IP addresses to allow a mix of SSO and traditional form-based sign ons in a single Web Query installation. For more information, see the D2 Web Query administration document at <http://ibm.co/db2wqSSO>.

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

InfoAssist

This section addresses the known issues for InfoAssist.

- ❑ Prior to Hotfix 7, you could specify an application theme in InfoAssist by clicking the *Options* button on the InfoAssist main menu. In Hotfix 7 and higher, the application theme is retrieved from the BI Portal. Therefore, the ability to specify an application theme in InfoAssist has been removed.
- ❑ The User Selection feature introduced in Hotfix 6 is inadvertently hidden in Hotfix 7. The User Selection feature will reappear as the default in Hotfix 8.

Workaround: To enable the User Selection feature, perform the following steps:

1. Sign in to DB2 Web Query using the QWQADMIN user ID.
2. Launch the Administration Console from the Administration menu bar option.
3. Select *Configuration*, then select *InfoAssist Properties*.
4. Scroll down to the Format Tab section and select the *User Selection Show* check box.
5. Click *Save*.
6. Click *Close* on the menu bar to close the Administration Console.

Launch InfoAssist and notice the User Selection feature is available.

- ❑ Developing a Gauge chart with customized color bands will generate an error if the chart type is switched to a different chart type, for example, a scatter chart.

Workaround: Develop a new chart with the desired chart type.

Spreadsheet Client

This section addresses the known issues for Spreadsheet Client.

Web Query InfoAssist, when opened from Spreadsheet Client, does not support the following:

- ❑ Excel Pivot output type
- ❑ Table of Contents format option

Both of these options will be disabled from Spreadsheet Client InfoAssist in a future release of DB2 Web Query.

Report Broker

This section addresses the known issues for Report Broker.

Changing the owner of a schedule does not work when you right-click on a schedule and select the *Properties* option. Clicking the *Change owner* button does not change the owner of the schedule.

Workaround: Right-click on a schedule and select the *Change owner* option to change the owner and Execution ID to another user. After this is done, refresh the Repository tree and notice the schedule disappears. This is because you are no longer the owner of the schedule. Log in as the new owner and you will be able to access the schedule.

RESTful Web Services (Includes the Application Extension)

The current implementation of RESTful web services does not support the following objects:

- ☐ HTML Composer documents
- ☐ OLAP reports
- ☐ InfoMini reports
- ☐ Reports using Powerpoint output format
- ☐ Lightweight Maps

In addition, reports using Excel or PDF output formats may be problematic.

Support for these objects will be available in a future version of DB2 Web Query, with the exception of InfoMini reports. It is likely that InfoMini reports will never be supported.

Web Browser Cache Settings

Incorrect web browser cache settings can cause erroneous behavior. As indicated in the Online Help, the recommended browser settings are:

- ☐ Do not cache page content.
- ☐ Disable pop-ups for the reporting environment.

In addition, the *Check for newer versions of stored pages* browser setting should be set so that it always checks for newer versions.

For information on browser setting options, see the respective browser Help system.

National Language Support

This section addresses the known issues for National Language Support (NLS).

In Turkish, running an Active Flash or Active PDF report in InfoAssist or from the BI Portal generates a FOC3357 error.

Workaround: Edit the /qibm/UserData/qwebqry/base80/client/wfc/etc/nlscfg.err file and add the following line to the end of the file:

```
ENCODING = Cp1026
```

Also, edit the /qibm/UserData/qwebqry/ibi/srv77/wfs/etc/odin.cfg file by modifying the JSCOM3 Listener block to include an additional argument on the JVM_OPTIONS parameter, as follows:

```
;JSCOM3 Listener
NODE = JSS
BEGIN
  PROTOCOL = TCP
  CLASS = JAVASERVER
  PORT = 12335
  AWT_HEADLESS = Y
  JVM_OPTIONS = -Djava.version=1.6|-Duser.language=en
  JVM_MAX_HEAP = 512
  IBI_CLASSPATH = /home/sqljdbc40/sqljdbc.jar:/home/sqljdbc20/sqljdbc.jar
END
```

Documentation

This section addresses updates to documentation:

- ❑ In the online help section for *IBM DB2 Web Query for IBM i, Using the Reporting Interface, Web Query Developer User Interface Using Right-Click Options in the Repository Tree*, or if you are viewing the PDF version, Chapter 3, *Using the Reporting Interface*, it reads:

If you right-click a report in the Resource Tree, the options shown in the following image are available.

Properties. This option is only available to Developers and Administrators to view report properties.

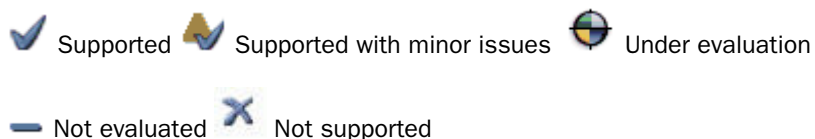
Correction. The documentation should read as follows for Properties:

This option is only available to Web Query Administrators to view report properties. A Web Query Administrator is any user belonging to the WebQueryAdministrator group.

- ❑ In the PDF version, Chapter 6, *Using Report Broker*, the *How to Use the Email Distribution Option* procedure should not include Distribution File or Dynamic Distribution List. These are not valid options for DB2 Web Query.







Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF7.



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Reporting						
Active Reports						
HTML Composer pages						
InfoAssist						
HTML Reporting Features						
HTML format (No JavaScript)						
JavaScript components	Standards Mode Compatibility View					
<input type="checkbox"/> Accordion <input type="checkbox"/> HFREEZE <input type="checkbox"/> On-demand Paging						
<input type="checkbox"/> Multi-drill						
<input type="checkbox"/> Table of Contents (BYTOC)						

Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8 (32-bit)	Firefox v25	Safari v7.0	Chrome v30
Graph Requests						
(See Graph request notes below for additional information)						
Server-generated graphs						
Browser-generated (HTML5)			Flash needed 			
Browser-generated (AHTML)						
Browser-generated (AFLEX, APDF)						
Interfaces						
Amper Auto-prompting						
BI Portal						
Developer Workbench (Requires Internet Explorer)						
OLAP						
Report Broker						
Administration Tools						
Security Center						

Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8 (32-bit)	Firefox v25	Safari v7.0	Chrome v30
Web Query Administration Console						

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer and will always use the Internet Explorer browser even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) support image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Graph request notes:
 - ❑ Server-generated graphs refers to traditional graph requests that are generated on the Reporting Server and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
 - ❑ Bitmap: PNG, JPG
 - ❑ Vector: PDF (but not active PDF), SVG


- ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode which is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).


Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query Version 2.1 and are no longer tracked in this matrix.


- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
 - ❑ Adobe X is certified.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.
- ❑ A Java VM on the user machine is required for viewing migrated applet-based graph output created in previous 1.1.x releases. For the web browser to process applets, the following is needed:
 - ❑ Sun Java VM 1.6 or higher must be installed on the end user machine. On Windows 7 64-bit versions, a 32-bit JVM is needed when using the Internet Explorer 32-bit version, which is the default, or Firefox browser.
 - ❑ The end user browser must be configured to use the VM as a plug-in.


Mobile Browser Support


The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1 HF7.

























 Supported

























 Supported with minor issues

 Under evaluation

 Not evaluated

 Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				
HTML Composer pages				
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format (No JavaScript)				
JavaScript components				
<input type="checkbox"/> Accordion				
<input type="checkbox"/> HFREEZE				
<input type="checkbox"/> On-demand Paging				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
❑ Multi-drill				
❑ Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				
Browser-generated (AHTML)				
Interfaces				
Amper Auto-prompting				

Note:

- ❑ Web Query developer tools (InfoAssist) are not supported for mobile.
- ❑ Android Chrome does not natively support PDF or Excel. Third-party apps (for example, Documents to Go®, Adobe mobile) are required.

This documentation describes the new features available in the October 2013 - Hotfix 6 release.

It is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [Security Center Enhancement](#)
- ❑ [InfoAssist Enhancements](#)
- ❑ [Kerberos Enhancement](#)
- ❑ [Business Intelligence Portal Enhancement](#)
- ❑ [Report Broker Enhancement](#)
- ❑ [Spreadsheet Client Enhancement](#)
- ❑ [Microsoft SQL Server Adapter Enhancement](#)
- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)
- ❑ [Mobile Browser Support](#)

Security Center Enhancement

In the Web Query Security Center, a user with AUTOADD status is now listed as a candidate and can be added as a licensed user.

An AUTOADD user is an IBM i user that exists in the Web Query repository, but does not hold a license in the Web Query option for Developer Users. Typically, an AUTOADD user is a run-only user who is a member of a licensed group profile in the Web Query option for Runtime Enablement Groups, and who has signed into Web Query at least one time. A developer user may be moved to AUTOADD status, if the following conditions are all met:

- ❑ The user was licensed under a Web Query 70-day trial.

- ❑ The trial is expired.
- ❑ A license key has not yet been added.
- ❑ The user tries to sign into Web Query.

Note:

- ❑ The user status will remain ACTIVE until an unsuccessful sign on to Web Query, after which the user will have AUTOADD status.
- ❑ After adding the user, you can right-click *USERS* in the Security Center and select *Refresh*. This updates the status from AUTOADD to ACTIVE.

InfoAssist Enhancements

The following are new feature enhancements for InfoAssist.

- ❑ The Column Total (Grand Total) dialog box has been enhanced to allow the following:
 - ❑ Select which columns should be included in the Grand total.
 - ❑ Assign aggregation functions for individual fields.
 - ❑ Edit the Column Total text.
- ❑ A new Within feature allows you to use specific aggregation tasks at different report levels. You can use the Within phrase to manipulate display field values as they are aggregated within a sort group rather than a report column.

In the following image, the output on the left shows the percentage distribution for the entire column, whereas the output on the right shows aggregation within a region.

Region	Product Category	QuantitySold	PCT QuantitySold
Central	Stereo Systems	12,492	16.29%
	Televisions	8,337	10.87%
	Video Players	13,103	17.09%
	Video Production	2,561	3.34%
Subtotal: Central		36,493	47.59%
MidEast	Stereo Systems	4,611	6.01%
	Televisions	3,158	4.12%
	Video Players	5,108	6.66%
	Video Production	922	1.20%
Subtotal: MidEast		13,799	17.99%
NorthEast	Stereo Systems	8,970	11.70%
	Televisions	6,140	8.01%
	Video Players	9,481	12.36%
	Video Production	1,804	2.35%
Subtotal: NorthEast		26,395	34.42%

Region	Product Category	QuantitySold	PCT QuantitySold
Central	Stereo Systems	12,492	34.23%
	Televisions	8,337	22.85%
	Video Players	13,103	35.91%
	Video Production	2,561	7.02%
Subtotal: Central		36,493	100.00%
MidEast	Stereo Systems	4,611	33.42%
	Televisions	3,158	22.89%
	Video Players	5,108	37.02%
	Video Production	922	6.68%
Subtotal: MidEast		13,799	100.00%
NorthEast	Stereo Systems	8,970	33.98%
	Televisions	6,140	23.26%
	Video Players	9,481	35.92%
	Video Production	1,804	6.83%
Subtotal: NorthEast		26,395	100.00%

Note: You can have a maximum of two Within phrases per display field. The first applies to By fields and the second applies to Across fields. For example, if you have an Across field in the above report (for example, YEAR), you can add a Within on the YEAR field so that your PCT QuantitySold is aggregated within each YEAR column, instead of across all YEAR columns.

To access the Within functionality:

1. With a report open, in the Query Design pane, select the numeric measure data source field.

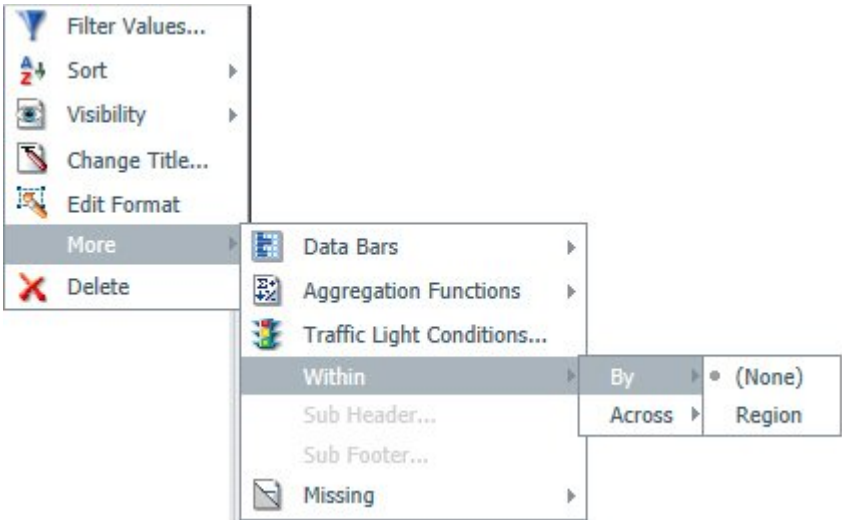
The Field tab appears on the ribbon.

2. On the Field tab, in the Display group, click *Within*, as shown in the following image.

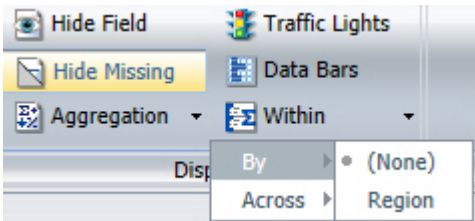


Note: Depending on how your data is set up, you can apply the Within phrase on a By or Across field.

Optionally, you can access the Within functionality from the right-click menus on the column level, as shown in the following image. You can also access these menus when you right-click on an operator (for example, SUM) in the Query pane.



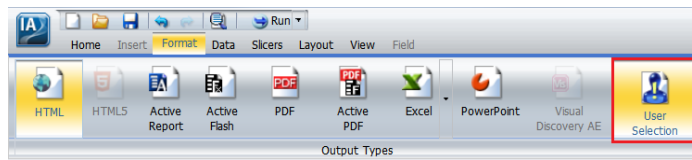
3. On the Within menu, click the down arrow to select the Within phrase for the By or Across field, as shown in the following image.



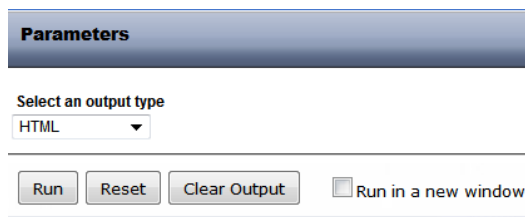
4. Select a By or Across field from the list of available fields.
5. Run the report to view output.

- The User Selection output type has been added to address a gap in functionality from DB2 Web Query v1.1.x. Select this option during report development to allow users to change the format output of a report at run time.

The User Selection button is located in the Output Types group on the Format tab, as shown in the following image.



At report run time, an output type prompt is automatically generated, as shown in the following image.



The user can select to change the output type by selecting a value from the drop-down list. The valid output types for a report are HTML, active report, active Flash, PDF, active PDF, Excel 2000, Excel 2007, Excel Formula, and PowerPoint. The valid output types for a chart are HTML, HTML5, active report, active Flash, PDF, active PDF, Excel 2000, and PowerPoint. The valid output types for documents and dashboards are HTML, active report, active Flash, PDF, active PDF, Excel 2000, and PowerPoint. Once the desired output type is selected, click *Run* to execute the report.

Note: The User Selection option should not be used with the File & Printer option. An error will occur and prevent the user from editing the procedure after it is saved.

Kerberos Enhancement

There is a new parameter in the Administration Console under the Security category called `IBI_Signout_Redirect_URL`. This defines the URL to which a user is redirected to upon sign out of DB2 Web Query. The default is `/`, which redirects the user to the DB2 Web Query sign on page. For Kerberos configurations, set the URL to `/logon/logoff.jsp` (the DB2 Web Query sign off page) or to another preferred URL, other than the default of `/`.

For more information, see the *DB2 Web Query Kerberos Implementation Guide* at:

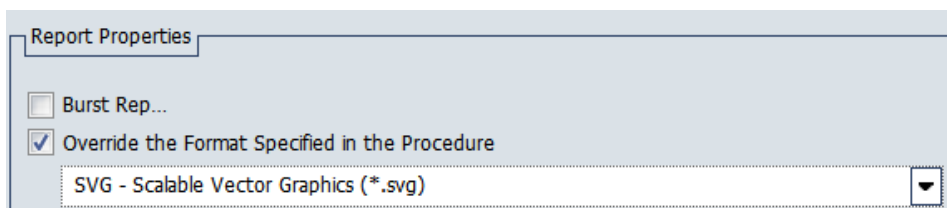
https://www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/W516d8b60d32c_4fc5_a811_5f3d840bf524/page/SSO%20Kerberos

Business Intelligence Portal Enhancement

In addition to being available within InfoAssist, the Run with SQL Trace option is now available as a right-click option in the Resource tree. Right-click on a procedure and select the *Run with SQL Trace* option. This will run the procedure and will display the SQL trace below the report output.

Report Broker Enhancement

Users are no longer required to specify a format when scheduling a procedure. If a format is not specified in the schedule, the report output will be distributed in the format specified in the procedure or in the default online format (normally HTML). When scheduling a Chart procedure that uses JPEG, PNG, or SVG, if you do not select a format in the schedule, the output will be distributed in PNG format. If you require that the output be distributed as a JPEG or SVG file, specify that format in the schedule. To do so, you can select the *Override the Format Specified in the Procedure* check box on the Task tab of the Basic Scheduling tool to specify a format other than the one specified in the procedure, as shown in the following image.



Spreadsheet Client Enhancement

As of Web Query HF5 (all PTFs applied) and higher, Microsoft Excel 2013 32-bit and 64-bit versions are supported with the Spreadsheet Client.

Microsoft SQL Server Adapter Enhancement

As of Web Query HF5 and higher, Microsoft SQL Server 2012 is supported.

Known Issues

The following are known issues and will be addressed in a future version of DB2 Web Query.

Report Broker

This section addresses the known issues for Report Broker.

- ❑ Right-click properties on a Schedule or Distribution list produces no output in Chrome and Safari browsers.
- ❑ Changing the owner of a schedule does not work when you right-click on a schedule and select the *Properties* option. Clicking the *Change owner* button does not change the owner of the schedule.

Workaround: Right-click on a schedule and select the *Change owner* option to change the owner and Execution ID to another user. After this is done, refresh the Repository tree and notice the schedule disappears. This is because you are no longer the owner of the schedule. Log in as the new owner and you will be able to access the schedule.

Repository

The save file for the QWQCENT library that was included in HF5 was downlevel. If the library was restored onto a system from the HF5 version save file, restore it again from the HF6 save file. The save file is located in QWEBQRY/QWQCENT.

RESTful Web Services

On-Demand Paging reports and HTML5 charts are not supported. These will be supported in a future release.

Web Browser Cache Settings

Incorrect web browser cache settings can cause erroneous behavior. As indicated in the Online Help, the recommended browser settings are:


- ❑ Do not cache page content.
- ❑ Disable pop-ups for the reporting environment.

In addition, the *Check for newer versions of stored pages* browser setting should be set so that it always checks for newer versions.

For information on browser setting options, see the respective browser Help system.

Web Browser Support
































The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF6.

 Supported

 Supported with minor issues

 Not evaluated

 Not supported

Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8 (32-bit)	Firefox v22	Safari v6.0.5 (Mac OS v10.8.4)	Chrome v28
Reporting						
Active Reports						
HTML Composer pages (Created in the 7.7.03 or later 7.7.x release)						
InfoAssist						
HTML Reporting Features						
HTML format (No JavaScript)						
JavaScript components	Standards					
<input type="checkbox"/> Accordion	Mode 					
<input type="checkbox"/> HFREEZE	Compatibility					
<input type="checkbox"/> On-demand Paging	View 					

Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8 (32-bit)	Firefox v22	Safari v6.0.5 (Mac OS v10.8.4)	Chrome v28
<input type="checkbox"/> Multi-drill						
<input type="checkbox"/> Table of Contents (BYTOC)	Compatibility View					













Graph Requests

(See Graph request notes below for additional information)

Server-generated graphs						
Browser-generated (HTML5)			Flash needed 			
Browser-generated (AHTML)						
Browser-generated (AFLEX, APDF)					—	

Interfaces

Amper Auto-prompting						
BI Portal						
Developer Workbench (Requires Internet Explorer)						
OLAP					—	—
Report Broker						

Web Query Component	Internet Explorer v10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8 (32-bit)	Firefox v22	Safari v6.0.5 (Mac OS v10.8.4)	Chrome v28
Administration Tools						
Security Center						
Web Query Administration Console						

Note:

- ❑ By default, the 2.1 HF4 and higher releases of Developer Workbench display output in the Desktop Viewer and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer and will always use the Internet Explorer browser even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) support image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Graph request notes:
 - ❑ Server-generated graphs refers to traditional graph requests that are generated on the Reporting Server and then embedded as a bitmap or vector image in a document or webpage. This includes the following output formats:
 - ❑ Bitmap: PNG, JPG
 - ❑ Vector: PDF (but not active PDF), SVG


- ❑ Browser-generated graphs refer to graphs that are rendered inside the browser. This is done using JavaScript in HTML5 compatible browsers and by Flash in older versions of Internet Explorer that are either not HTML5 compatible or are being run in a mode which is not HTML5 compatible. Browser-generated graphs are utilized in both standard HTML5 output (FORMAT JSCHART) and in Active Technologies (FORMAT AHTML and FORMAT AFLEX, APDF).


Note: Applet-based charts (Java Graph engine running client-side) have been deprecated in Web Query v2.1 and are no longer tracked in this matrix.


- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader support:
 - ❑ Adobe XI is certified.
 - ❑ Adobe X is certified.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.
- ❑ A Java VM on the user machine is required for viewing migrated applet-based graph output created in previous 1.1.x releases. For the web browser to process applets, the following is needed:
 - ❑ Sun Java VM 1.6 or higher must be installed on the end user machine. On Windows 7 64-bit versions, a 32-bit JVM is needed when using the Internet Explorer 32-bit version, which is the default, or Firefox browser.
 - ❑ The end user browser must be configured to use the VM as a plug-in.


Mobile Browser Support


The following table provides mobile browser support information for Web Query product components for Web Query Version 2.1 HF6.





























 Supported





























 Supported with minor issues

 Under evaluation

 Not evaluated

 Not supported

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
Reporting				
Active Reports				
HTML Composer pages <i>(Created in the 7.7.03 or later 7.7.x release)</i>				
Graph Requests				
Graph Requests (HTML5)				
PDF			 (Requires third-party apps)	
Excel			 (Requires third-party apps)	
HTML Reporting Features				
HTML format <i>(No JavaScript)</i>				

Web Query Component	iOS Safari	iOS MobileFaves	Android Chrome	Android MobileFaves
JavaScript components				
<input type="checkbox"/> Accordion <input type="checkbox"/> HFREEZE <input type="checkbox"/> On-demand Paging				
<input type="checkbox"/> Multi-drill				
<input type="checkbox"/> Table of Contents (BYTOC)				
Graph Requests				
Server-generated graphs				
Browser-generated (HTML5)				
Browser-generated (AHTML)				
Interfaces				
Amper Auto-prompting				

Note:

- ☐ Web Query developer tools (InfoAssist) are not supported for mobile.
- ☐ Android Chrome does not natively support PDF or Excel. Third-party apps (for example, Documents to Go®, Adobe mobile) are required.

Mobile Technology Operating System Support

The Mobile Faves app is supported on the following systems for HF6:

- ☐ Android™ Version 4.1 (Jelly Bean) and higher

- ❑ Apple® iOS Version 5 and higher

This documentation describes the new features available in the August 2013 - Hotfix 5 release.

It is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [Security Center Enhancement](#)
- ❑ [Business Intelligence Portal Enhancement](#)
- ❑ [Developer Workbench Enhancement](#)
- ❑ [Mobile Favorites Enhancement](#)
- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)

Security Center Enhancement

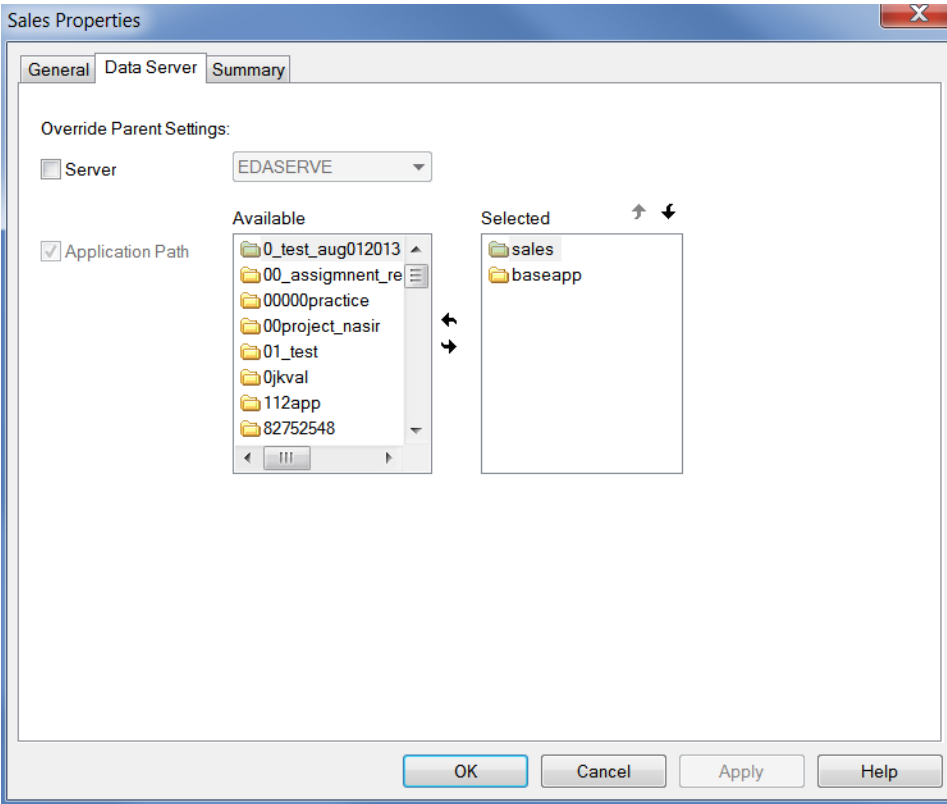
The License Manager calls made from within the Security Center have been improved for more efficient processing. This should result in better performance when managing a large number of user IDs.

Business Intelligence Portal Enhancement

In the DB2 Web Query repository, the Common top-level folder can no longer be deleted or renamed. This will prevent the DB2 Web Query banner and image from being inadvertently deleted. Making the Common folder hidden from your users can be done by a Web Query Administrator. Right-click on the *Common* folder and select the *Hide* option. To make the Common folder reappear, right-click on the *Common* folder and select the *Show* option.

Developer Workbench Enhancement

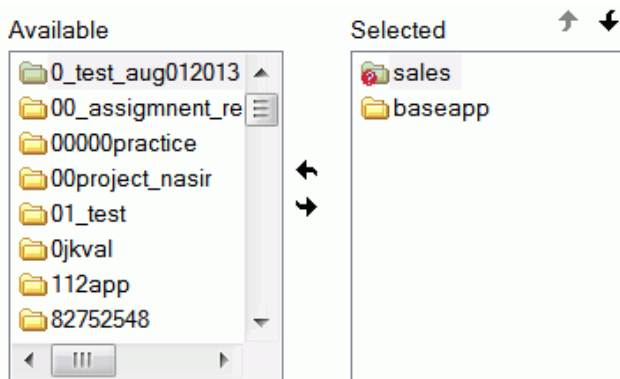
The Properties dialog box for the top-level folder has been modified to prevent a user from turning off the Application Path property on the Data Server tab. Moving folders in and out of the application path definition is still possible, as shown in the following image.



In addition, newly created top-level folders will automatically have baseapp as part of their Application Path definition. This will allow a developer to manage metadata within that application folder.

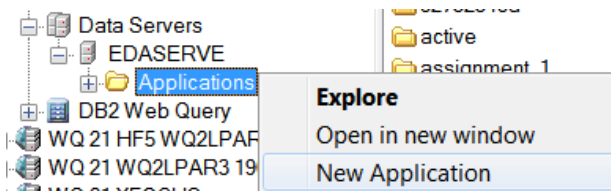
Note: This does not apply to top-level folders that were migrated from DB2 Web Query v1.1.x, unless it was explicitly defined in the 1.1.x release.

To add baseapp to the Application Path of a top-level folder, right-click on the top-level folder and select the *Properties* option. Click the *Data Server* tab and move baseapp from the Available list to the Selected list. An application folder with a red question mark next to it indicates that the application folder is unavailable. This may be due to incorrect permissions or the folder was deleted from the Integrated File System (IFS). In this example, the sales folder no longer exists, as shown in the following image.



A Web Query administrator can correct the problem in one of two ways:

- ❑ If the folder is no longer needed, click on the missing folder in the Selected list and then click the left arrow to move it to the Available list.
- ❑ If the folder is needed, recreate the application folder from a backup or click on the *New Application* option from the Data Servers node within Developer Studio, as shown in the following image.



Mobile Favorites Enhancement

The Mobile Faves app for Android v1.2 is available on Google Play™. This release contains the following new features:

- ❑ **Run Top Fave.** Automatically run your top favorite without navigating.
- ❑ **Support for Portrait Orientation on phones**

- ❑ **Skip Server List.** Mobile Faves will skip the server list and automatically load the folders from your last used server.
- ❑ **Search Functionality.** Search through the titles of all of your content for specific items.
- ❑ **Send, Print, and Email any Mobile Faves content.**

Note: The Gmail app is required to email content. The Android email app will be supported in the next release.

Known Issues

The following are known problems and will be addressed in a future version of DB2 Web Query.

InfoAssist

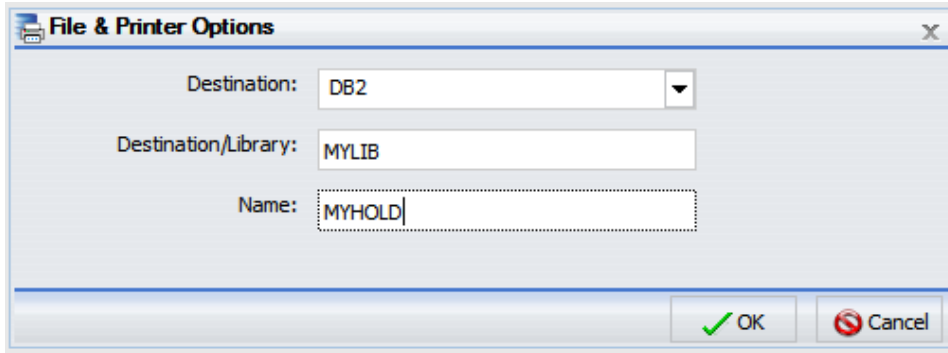
Editing an existing procedure which has format set to a DB2 Hold file will change the Hold file name to HOLD.

Note: Running an existing procedure will continue to work, as the Hold file name is preserved. Contact IBM Support for a post-HF5 PTF to correct this situation.

Workaround: A Web Query administrator will have to use the Edit With Text Editor option to identify the Hold file name. The line containing the Hold file name (for example, MYHOLD) is as follows:

```
ON TABLE HOLD FORMAT DB2 TABLENAME MYLIB/MYHOLD PERSISTENCE PERMANENT
```

A developer can now edit the procedure using InfoAssist, but will have to click on the drop-down list box, located on the File & Printer button on the Home tab, to get to the File & Printer Options dialog box. This is shown in the following image. Set the Name parameter to the original name. In the following example, MYHOLD is used.



Report Broker

This section addresses the known issues for Report Broker.

- ❑ Changing the owner of a schedule does not work when you right-click on a schedule and select the *Properties* option. Clicking the *Change owner* button does not change the owner of the schedule.

Workaround: Right-click on a schedule and select the *Change owner* option to change the owner and Execution ID to another user. After this is done, refresh the Repository tree and notice the schedule disappears. This is because you are no longer the owner of the schedule. Log in as the new owner and you will be able to access the schedule.

- ❑ The Scheduling tool Task tab displays formats that are unsupported in Web Query. Refrain from using the following formats: COM, COMMA, COMT, DFIX, GIF, HTML ODP, PPT TEMPLATE, TAB, TABT, VISDIS, WK1, WP, and XML.

Note: This will be corrected in the next release.

- ❑ Customers who upgrade to DB2 Web Query v2.1 HF5 from an earlier v2.1 HF release will lose their Report Broker configuration settings. As a precaution, customers should take note of their Report Broker configuration settings before they perform the upgrade so they can be restored after the upgrade is complete.

Procedure: How to View and Set Report Broker Configuration Settings

1. Log in to Web Query using the QWQADMIN user ID.
2. On the menu bar, click *Administration* and then select *Administration Console*.
3. Click *Report Broker* and then *Configuration*. The key parameters to note include:
 - a. **Mail Host.** Is the host name or IP address of your mail server.
 - b. **Excel Server URL.** Be sure that it reads as follows:

`http://yourhostname:12336/webquery`

where:

`yourhostname`

Is the host name where DB2 Web Query is installed.

Developer Workbench

This section addresses the known issues for Developer Workbench.

- ❑ A background image does not show on a HTML page that was developed with HTML Composer.

Workaround: When specifying background properties using the Style Composer, it is important to note that when using a background image with scrolling enabled, you must specify the horizontal and vertical positions. The horizontal and vertical positions are relative to the window, not the individual element.

- ❑ When inserting a reference to an existing synonym in Synonym Editor, the Insert Reference to Existing Synonym dialog box does not open to the working application. The working application folder is not listed in the *Look in* drop-down list.

Workaround: A post-HF5 refresh of Developer Workbench v2.1 will resolve this issue. Contact support for availability.


RESTful Web Services

On-Demand Paging reports and HTML5 charts are not supported. These will be supported in a future release.








































Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF5.













 Supported  Supported with minor issues

 Under evaluation  Not Evaluated

Note: Blank cell indicates browser version is not supported.

Web Query Component	Internet Explorer 10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8	Firefox v19 v18	Safari v5.1.5	iOS v5	Chrome v24	Opera v12.14
Reporting								
Active Reports						 AHTML format		
HTML Composer pages (Created in the 7.7.03 or later 7.7.x release)								
Graph Requests								
Graph Requests (HTML5)								
InfoAssist								
HTML Reporting Features								

Web Query Component	Internet Explorer 10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8	Firefox v19 v18	Safari v5.1.5	iOS v5	Chrome v24	Opera v12.14
HTML format (No JavaScript)								
JavaScript components	Standards Mode							
<input type="checkbox"/> Accordion	Compatibility View							
<input type="checkbox"/> HFREEZE								
<input type="checkbox"/> On-demand Paging								
<input type="checkbox"/> Multi-drill								
<input type="checkbox"/> Table of Contents (BYTOC)	Compatibility View							
Interfaces								
Amper Auto-prompting								
BI Portal								
Developer Workbench (Requires Internet Explorer)								
OLAP								
Report Broker								

Web Query Component	Internet Explorer 10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8	Firefox v19 v18	Safari v5.1.5	iOS v5	Chrome v24	Opera v12.14
Administration Tools								
Security Center								
Web Query Administration Console								

Note:

- ❑ By default, the 2.1 HF4 and HF5 releases of Developer Workbench display output in the Desktop Viewer and can be configured to use the Output Viewer Options tab from the Developer Workbench Options dialog box. You can run applications in Internet Explorer. When an HTML page is displayed in the Desktop Viewer, the document mode specified within the page source is applied. When a document mode is not specified within the HTML page source, the HTML page is displayed in Internet Explorer 7 Standards mode.
- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer and will always use the Internet Explorer browser even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML, DHTML, and DHTML compound reports is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) support image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader Support:
 - ❑ Adobe X is certified. This is required when using Internet Explorer Version 8 to view embedded PDF reports in Business Intelligence Portal or InfoAssist.

- ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.
- ❑ A Java VM on the user machine is required for viewing migrated applet-based graph output created in previous 1.1.x releases. For the web browser to process applets, the following is needed:
 - ❑ Sun Java VM 1.6 or higher must be installed on the end user machine. On Windows 7 64-bit versions, a 32-bit JVM is needed when using the Internet Explorer 32-bit version, which is the default, or Firefox browser.
 - ❑ The end user browser must be configured to use the VM as a plug-in.

This documentation describes the new features available in the March 2013 - Hotfix 4 release.

It is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

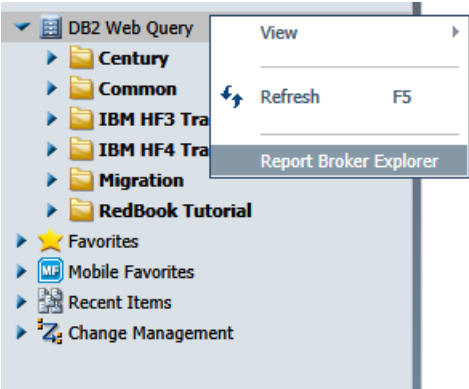
- ❑ [Using the Report Broker Explorer](#)
- ❑ [Creating HOLD Files](#)
- ❑ [Retrieving Parameter Values From a Different Data Source](#)
- ❑ [Additional HTML5 Chart Types \(Beta\)](#)
- ❑ [Enhanced WRKWEBQRY Panel](#)
- ❑ [SQL GETAUTH User-defined Function \(UDF\) Support](#)
- ❑ [Dynamic Run-Time Environments](#)
- ❑ [DB2 for LUW \(Linux®, UNIX®, Windows®\) Support](#)
- ❑ [Kerberos Support](#)
- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)

Using the Report Broker Explorer

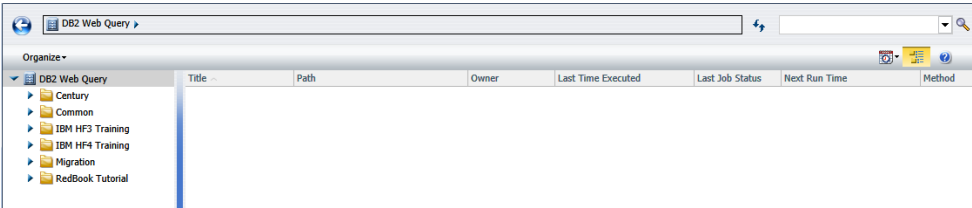
The Explorer interface provides users the ability to obtain a list of Report Broker items, by type, displayed with detail column information specific to the item type selected. The list can be filtered by Schedules and Distribution Lists in the selected folder. It can also include items in subfolders of the selected folder.

Access to the Explorer is controlled by the Client security authorization model. Users can be authorized to access the Explorer at the Repository folder or at specified lower-level folders.

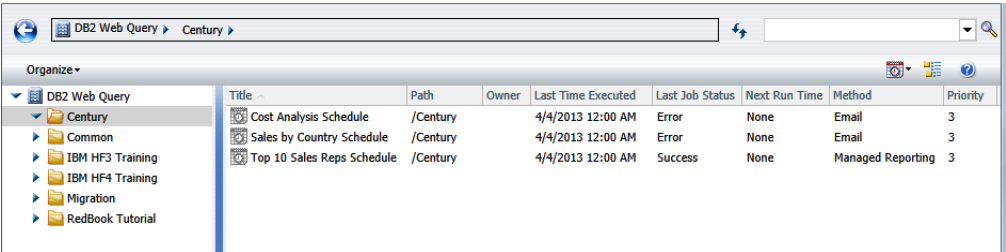
Authorized users can access the Explorer option from the context menu of a folder. The Explorer option is also available from the *Tools* menu, located on the BI Portal and Dashboard Menu Bar, provided that the user is authorized to access the Explorer from the *DB2 Web Query* folder.



When the Explorer interface is selected from the Tools menu, the *DB2 Web Query* folder is the default folder location and is expanded to list the folders that the user is authorized to access. The following image shows the Explorer with the *DB2 Web Query* folder as the selected folder location.



When the Explorer is selected from the context menu of a folder, the selected folder location is passed to Explorer so that the folder is the selected folder in the Explorer tree and schedules the user is permitted to access are listed in the right panel. The following image shows the Explorer invoked from the *Century* in which there are three schedules the user is authorized to access.



Note:

- ❑ You can switch between folder contents view and folder/subfolder contents view from the Report Broker Explorer toolbar. The folder/subfolder contents view displays the schedule list at the Repository level.

To display the folder contents view, click the folder view icon on the toolbar, as shown in the following image.



To display the folder/subfolder contents view, click the folder/subfolder view icon on the toolbar, as shown in the following image.



Note that this icon changes depending on the view you select.

- ❑ Once the Report Broker Explorer is launched from the BI Portal, logging out of or closing the BI Portal does not close the Report Broker Explorer. You must manually close the Report Broker Explorer when you log out of or close the BI Portal. If you log back into the BI Portal with a different user name while the Report Broker Explorer is open from a previous session, the Report Broker content from the previous session will be visible and available in the Report Broker Explorer.

Creating HOLD Files

A HOLD file is the output of a report request stored in a file that you can use as input to another Web Query procedure.

You can then create new report requests that extract data from the HOLD file, resulting in multi-step report.

HOLD files can be created to use in a report, chart, document, or dashboard.

Valuable Applications of HOLD Files

A HOLD file is valuable when you want to do the following:

- ❑ Extract fields from a large data source for faster and more efficient retrieval in subsequent requests.

- ❑ Store virtual field values or summary values calculated in one request for further processing in another request.

Storing HOLD Files

HOLD files can be created for immediate use and saved temporarily or they can be stored for future and repeated use.

Output Formats for Reports and Charts

You can save a HOLD file for a report in the following formats:

- ❑ Binary (*.ftm)
- ❑ FOCUS (*.foc). For more information, see [FOCUS Format Index Fields](#) on page 222.
- ❑ Comma Delimited with Titles (*.tab)
- ❑ Plain Text (*.ftm)
- ❑ Tab Delimited (*.tab)
- ❑ Tab Delimited with Titles (*.tab)
- ❑ Database Table (*.sql)
- ❑ SQL Script (*.sql)
- ❑ XML (*.xml)

You can save a HOLD file for a chart in the following formats:

- ❑ PNG
- ❑ GIF
- ❑ SVG
- ❑ JPEG

Creating Hold Files

This section contains three examples of how you would use a HOLD file:

Note: Across fields are not allowed in HOLD files.

Procedure: How to Create Multiple Components in a Document From a HOLD File

This procedure describes how to extract fields into a HOLD file and then create multiple components in a document from the HOLD file.

1. Select a data source.
2. Add fields that need to be extracted for use in subsequent requests.
3. On the Home tab, in the Format group, click *File & Printer*.
4. Click the *Destination* drop down list and select *File*.
5. Click the *Browse* button to open the Temporary dialog box.
6. In the Temporary dialog box, name the file, and click *Save*.
7. Select *Create Document*.
8. On the Insert tab, in the Reports group, click *Chart*.
9. Add fields to the chart.
10. Insert another chart.
11. Add fields to that chart.
12. On the Format tab, in the Chart Types group, click *Pie*.
13. On the Insert tab, in the Reports group, click *Report*.
14. Add fields to the report.
15. Add as many reports and charts as you want to complete your document.

Procedure: How to Create a Tabular Report From a HOLD File

You can store virtual field values, or summary values, calculated in one request for further processing in another request, as the following procedure illustrates.

Complete the procedure steps to create a tabular report showing Quantity of Items Sold per Product Category, By Region, Across Years. Include a column that shows percentages within region.

1. Select the *WF_RETAIL_SALESCLUSTER* master or any master with similar numeric and alphanumeric fields.
2. Add *Quantity, Sold*.
3. Change Title.
4. In the Edit Title dialog box, type *Quantity* and click *OK*.
5. Add *Region*.

6. On the Home tab, in the Format group, click *File & Printer*.
7. Click the *Destination* drop down list and select *File*.
8. Click the *Browse* button to open the Temporary dialog box.
9. In the Temporary dialog box, name the HOLD file and click *Save*.
10. Click *Create Report*.
11. On the Data tab, in the Join group, click *Join*.
12. In the Join dialog box, click *Add New*.
13. From the drop-down menu, select *Existing*.
14. From the Please pick a new target master file dialog box, select *Select the WF_RETAIL_SALESCUSTER master* and click *OK*.

Two join tables are joined.

15. Click *OK* to close the dialog box.
16. From FACT_SALES, add *Quantity, Sold*.
17. From HOLD, add *Quantity, Sold*.
18. On the Field tab, in the Display group, click *First Value* to add the FST prefix to *Quantity, Sold*.
19. On the Field tab, in the Display group, click *Hide Field* to hide *Quantity, Sold*, as it will be used in a subsequent calculation.
20. On the Data tab, in the Calculation group, click *Summary (Compute)*.
21. In the Summary Field Compute dialog box, do the following:
 - ☐ In the Field Name field, type *XPCT*.
 - ☐ In the Format field, type *F6.2%*.
 - ☐ Enter the expression in the image to calculate percentages.
22. Click *OK* to close the dialog box.
23. Add *Region* to By.
24. On the Field tab, in the Display group, select *Simple* from the Subtotal drop-down menu to create Subtotal on Region.
25. Add *Product, Category* to By.
26. Add *Year, (Sales)* to Across.
27. On the Home tab, in the Report group, click *Row Totals*.

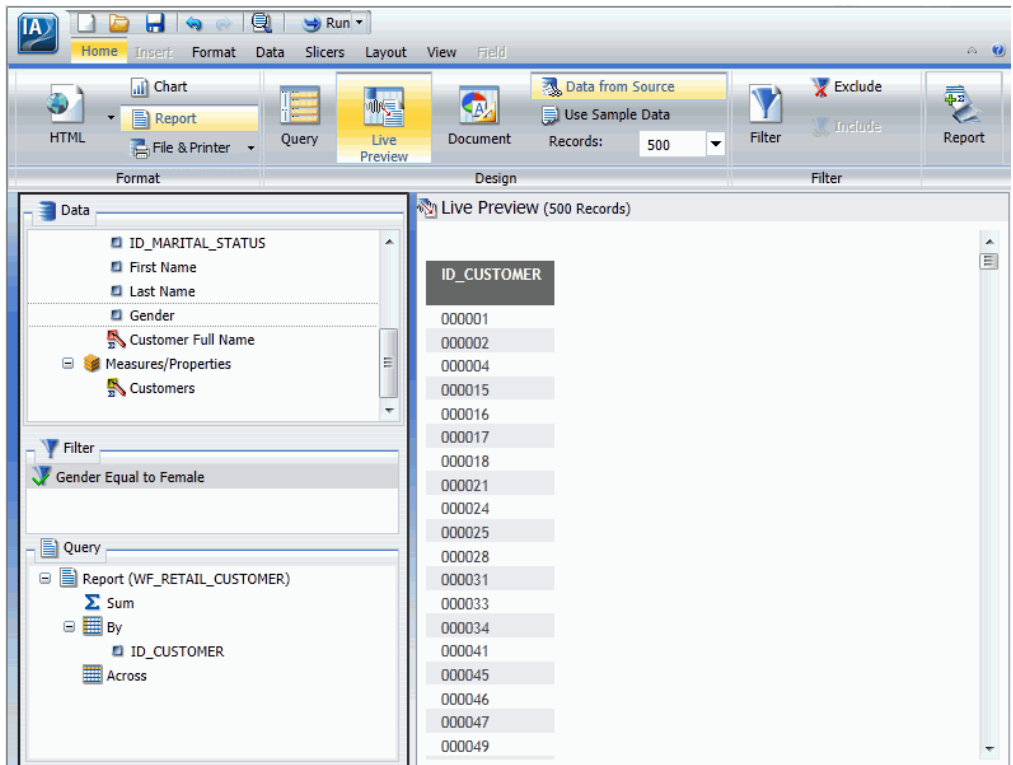
The report is complete.

Procedure: How to Create a HOLD File for a Subquery

The following procedure describes how to create a HOLD file for use in a subquery.

1. Create a new report with at least one filter condition set.

For example, the report shown in the following image lists Customer IDs with Gender equal to Female.

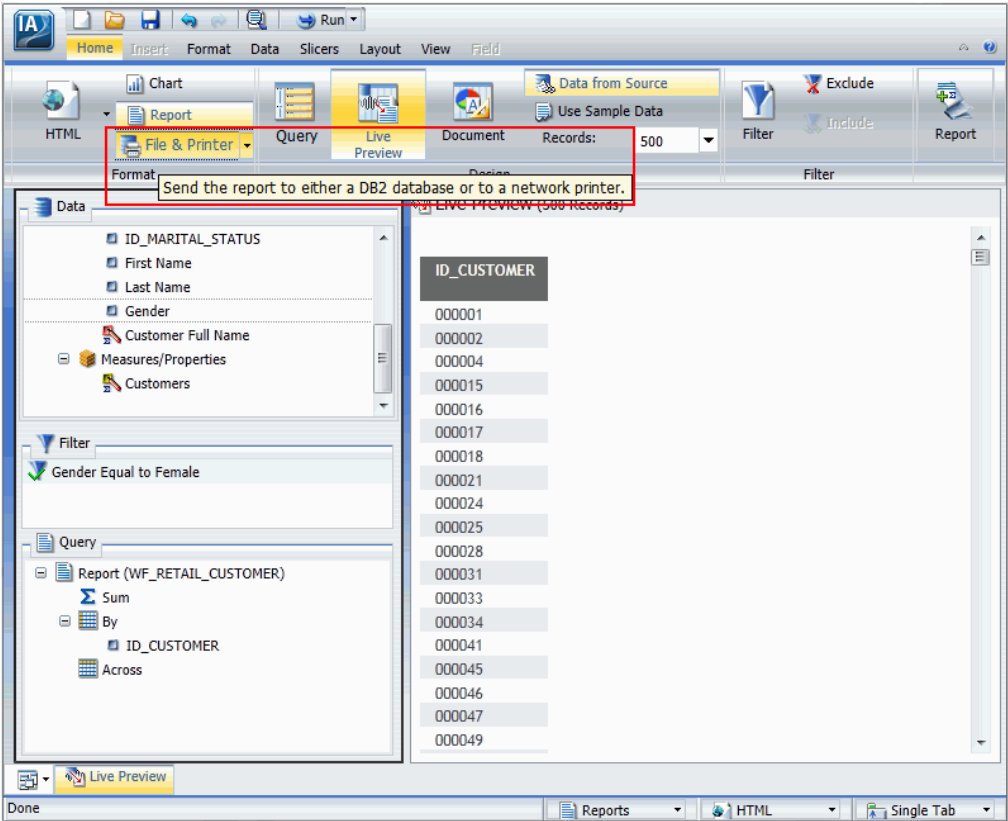


2. Click *File & Printer*.

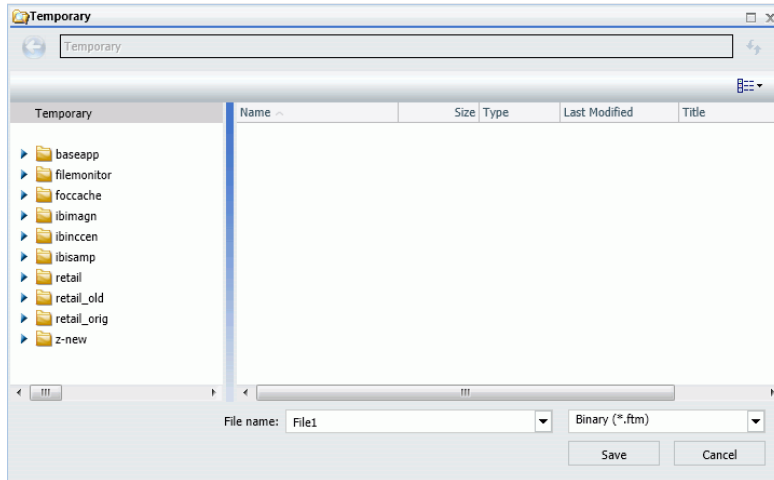
The File & Printer button is found on the Home tab, in the Format group, and on the Format tab, in the Destination group.

The File & Printer button is a split button. Click the left side of the button to launch the Save dialog box. The down arrow on the right side also opens the Save dialog box so you can change settings or set them for the first time.

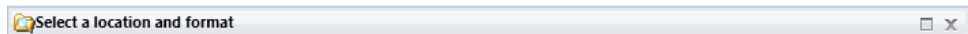
An example of the File & Printer button and the associated ToolTip are shown in the following image.



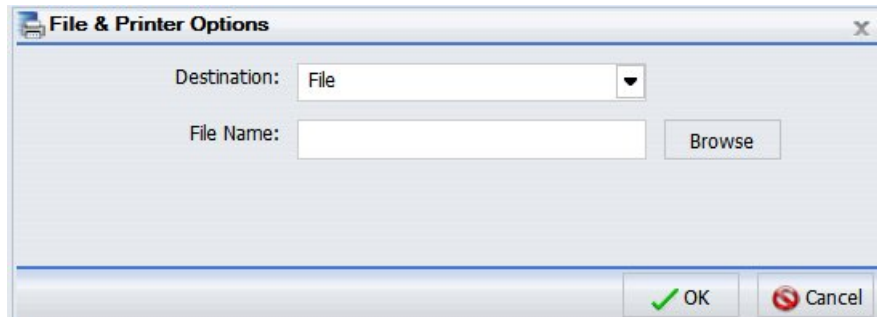
The Temporary dialog box opens, as shown in the following image.



Note: The label *Temporary* appears at the top of the dialog box. When you select a folder, the label changes to *Select a location and format*, as shown in the following image.



The File & Printer Options dialog box opens, as shown in the following image.



3. Click the *Destination* drop down list and select *File*, then click the *Browse* button.
4. In the *Select a location and format* dialog box, provide the following:
 - a. In the *File name* text box, type a file name.
The default file name is *File1*.
 - b. From the list menu, select *SQL Script (*.sql)* as the file format.

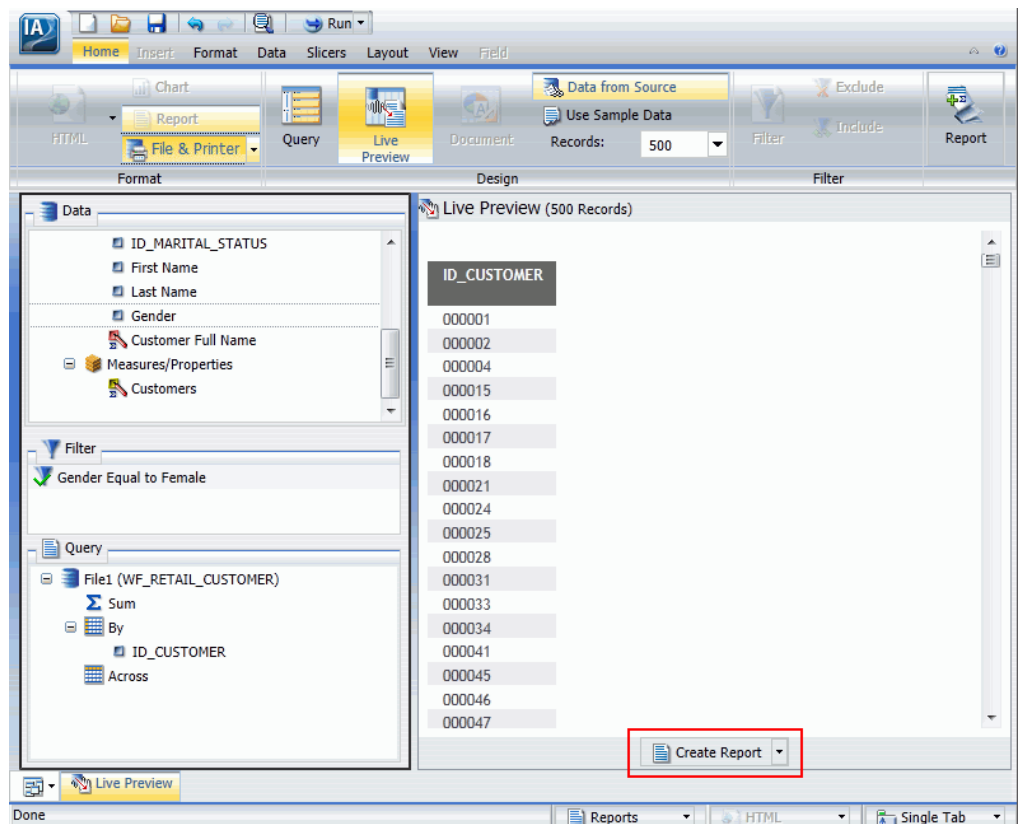
- c. Select a location for the HOLD file.

The location is either Temporary, which is the default, or a writable server application folder.

Note: If the HOLD file name already exists in the specified location, it will be overwritten without warning, when you click Save.

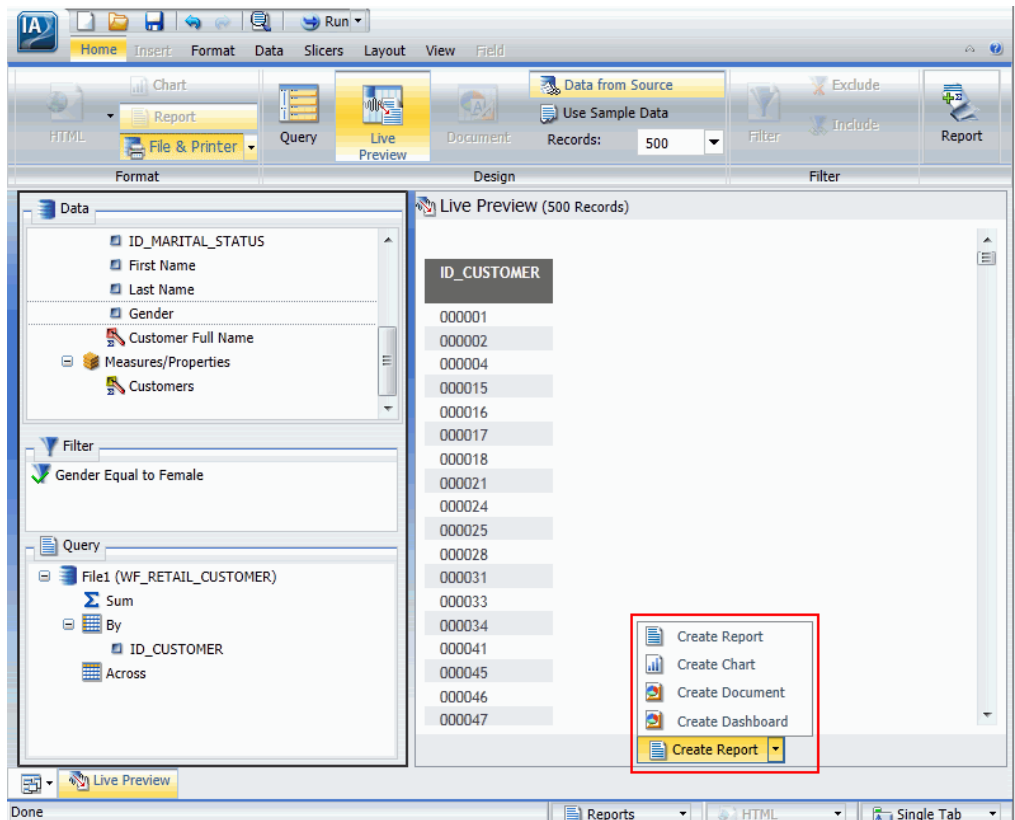
5. Click Save.

The Create Report button appears on the bottom of the InfoAssist Live Preview application window, as shown in the following image.

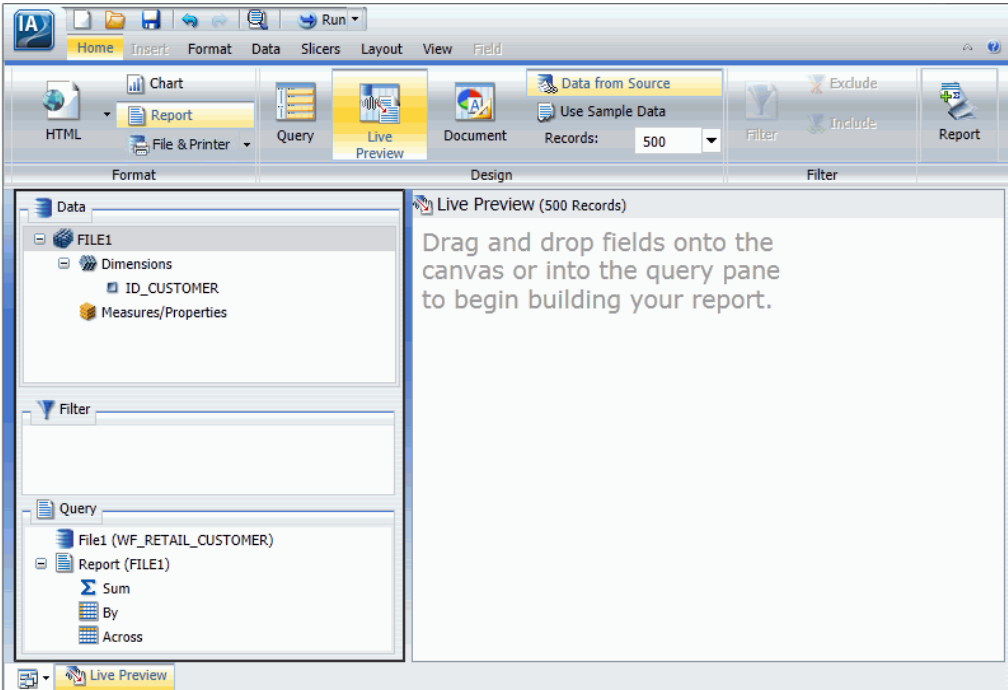


6. Repeat steps 2 - 4 to create as many HOLD files as you need.

7. To use the HOLD file right away in a report, chart, document, or dashboard, select the corresponding option, as shown in the following image.

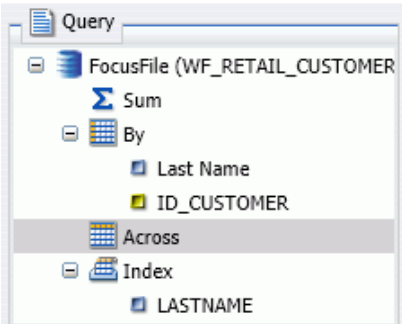


The following image is an example of the Live Preview application window when *Create Report* is selected.



FOCUS Format Index Fields

FOCUS is the only format that supports an index field. The maximum number of fields to index is four. If the file format is FOCUS, then *Index* appears on the Query pane, as shown in the following image.



Creating a Subquery Filter Using a HOLD File

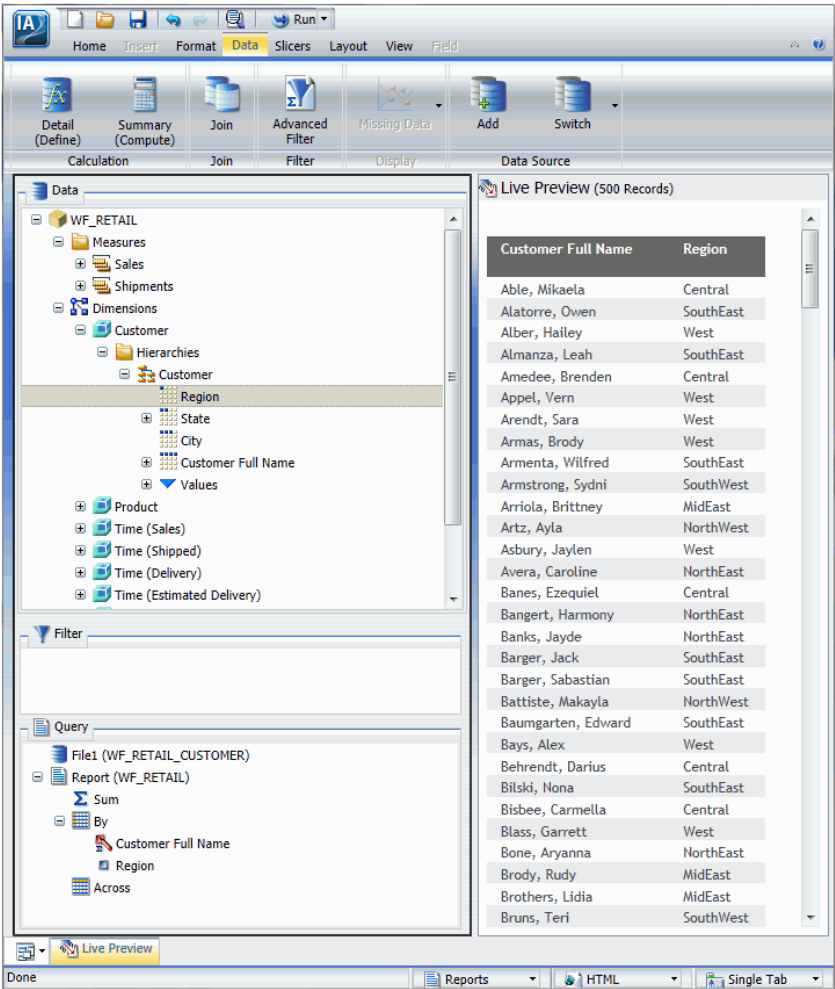
In InfoAssist, you can create a subquery using a HOLD file. A subquery is a nested query that is added to the Where clause of an SQL statement. A subquery is valuable because it is highly reusable.

Procedure: How to Create a Subquery Filter Using a HOLD File

This procedure describes how to create a subquery filter using a HOLD file created in the previous procedure.

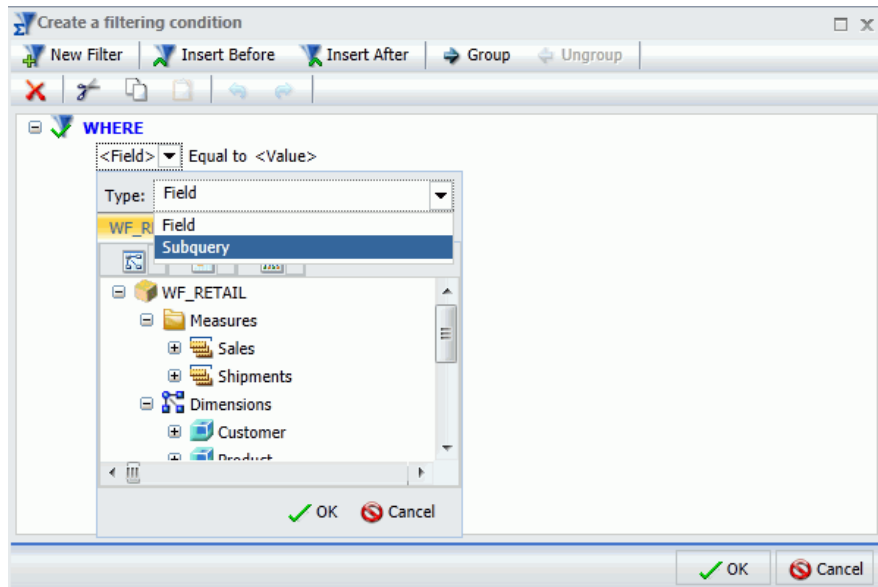
1. Build a report.

An example report is shown in the following image.

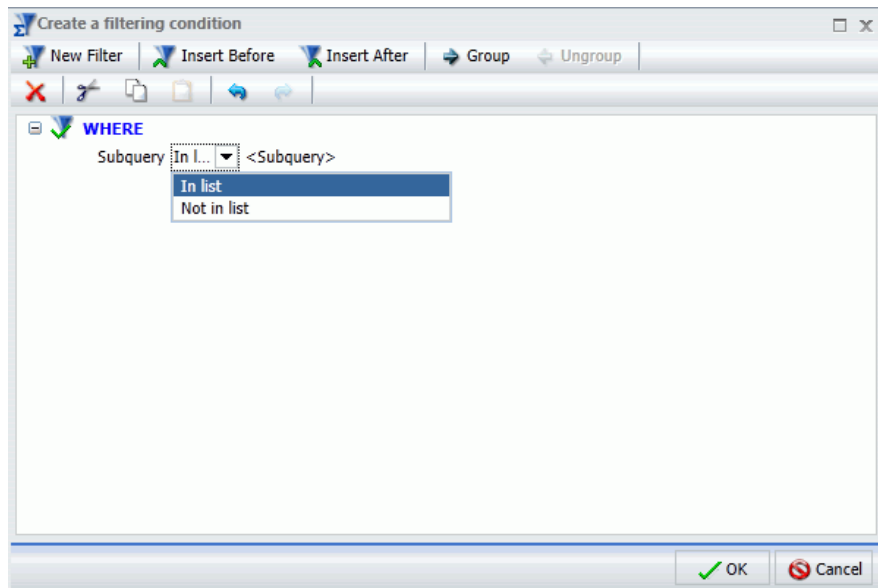


- 2. On the Data tab, in the Filter group, click *Advanced Filter*.
The Advanced Filter dialog box opens.

3. In the Advanced Filter dialog box, from the Type drop-down menu, select *Subquery* as the filter type for the left-most part of the expression, as shown in the following image.

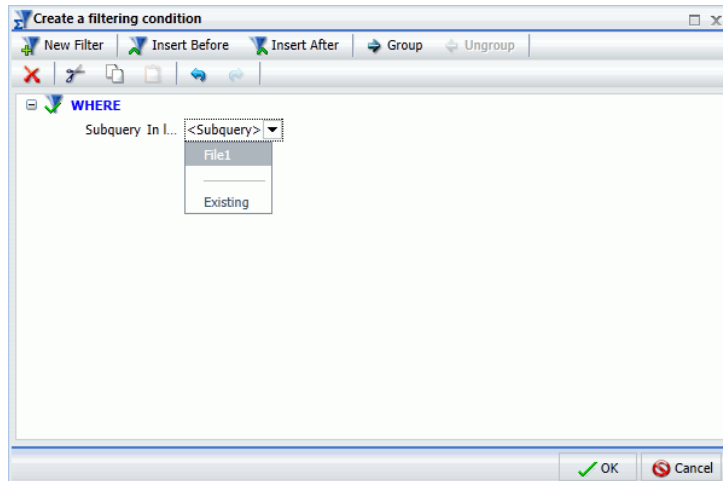


4. From the Subquery drop-down menu, select *In list* as the comparison operator, as shown in the following image.



5. From the list of subqueries, select the subquery that was created (in this example, File1) for the right-most part of the expression.

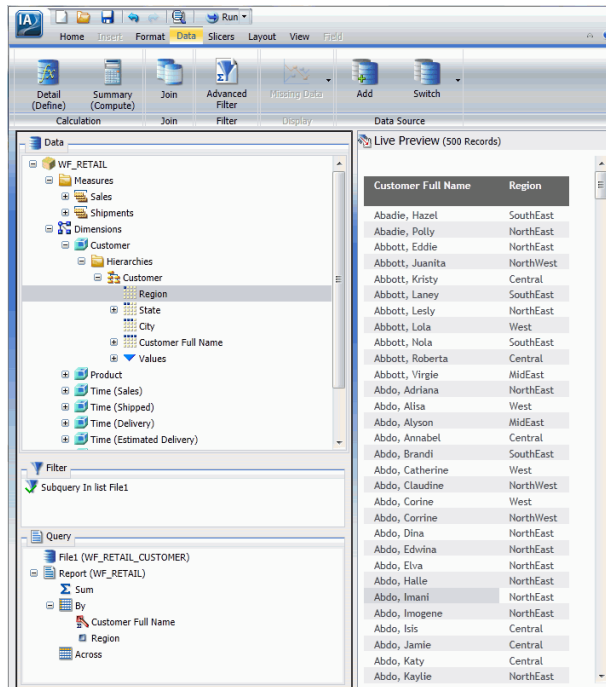
The Subquery drop-down menu with the File1 Subquery is shown in the following image.



6. Click OK.

The report is filtered by the subquery that you created.

An example of the report filtered by female customers is shown in the following image.



Note: To view the SQL statements generated by the request, go to the Quick Access Toolbar, open the Run drop-down menu, and select *SQL Trace*.

Document Mode

To create a HOLD file from a report included in a document, select the report and click *File & Printer* or right-click the report and select *Convert to File* from the menu. Then follow the steps for creating a HOLD file as described in [How to Create a HOLD File for a Subquery](#) on page 217.

Retrieving Parameter Values From a Different Data Source

In Web Query Version 1.1.x, the Report Assistant development tool allowed you to create a parameter and have the parameter values retrieved from any data source and field, for example, CENTURY_PLANT and PLANTCOUNTRY, respectively, as shown in the following image.

The image shows a dialog box for creating a parameter. It is divided into three main sections: Name, Selection, and Values. In the Name section, the 'Name' field contains 'COUNTRY' and the 'Description' field contains 'Plantcountry:'. In the Selection section, the 'Dynamic' radio button is selected, and the 'Select multiple values at runtime' checkbox is unchecked. In the Values section, the 'Data Source' dropdown menu is set to 'CENTURY_PLANT'. Below this, a list of fields is displayed, with 'PLANTCOUNTRY' highlighted in blue. The fields listed are PLANTCITY, PLANTSTATE, PLANTREGION, PLANTCOUNTRY, PLANTNAME, and PLANTCODE. At the bottom of the dialog box are 'OK' and 'Cancel' buttons.

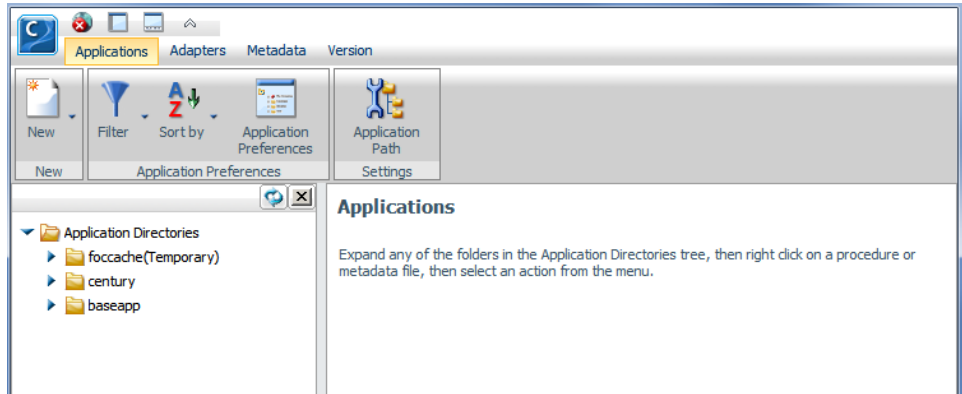
This functionality has been added to HF4 using a metadata-based solution. A synonym can be modified so that field parameter values can be retrieved from a different synonym and field.

Procedure: How to Retrieve Parameter Values From a Different Data Source

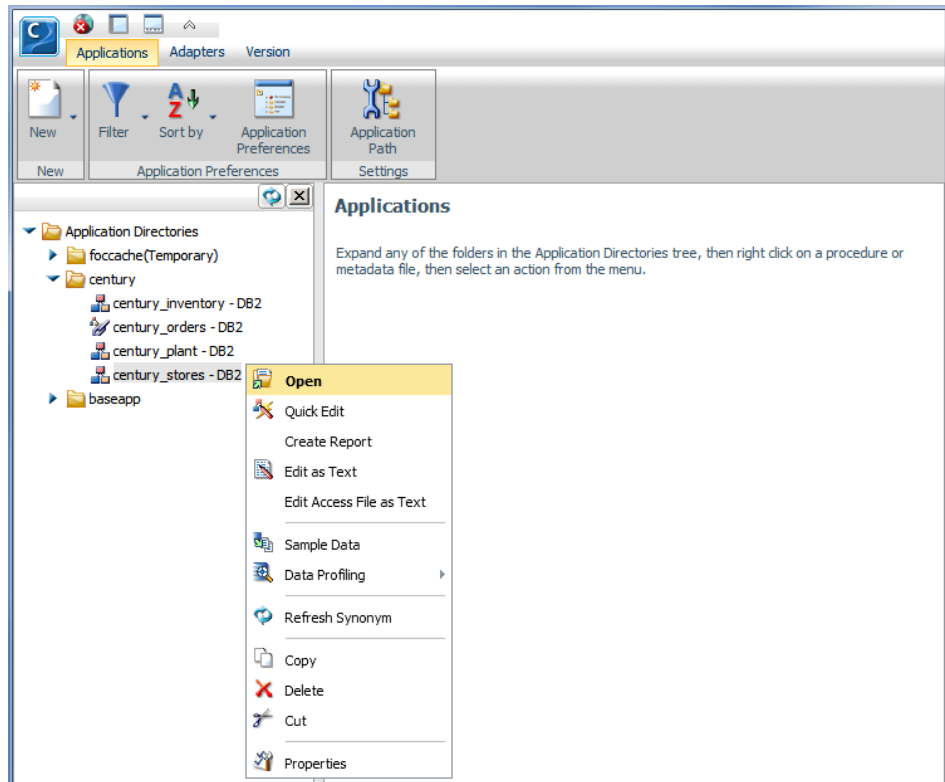
This procedure requires the use of the web-based Synonym Editor. Therefore, you must be a member of a folder-DBA group before proceeding. Refer to the *Security Concepts* section in the DB2 Web Query online help for more information on groups and how to add a user to a group.

This procedure assumes that you have an existing parameterized report that was developed using the century_stores.mas synonym. This report has a prompt for Country, but you would like the values for Country to be retrieved from a different data source, for example, using the century_plant.mas synonym.

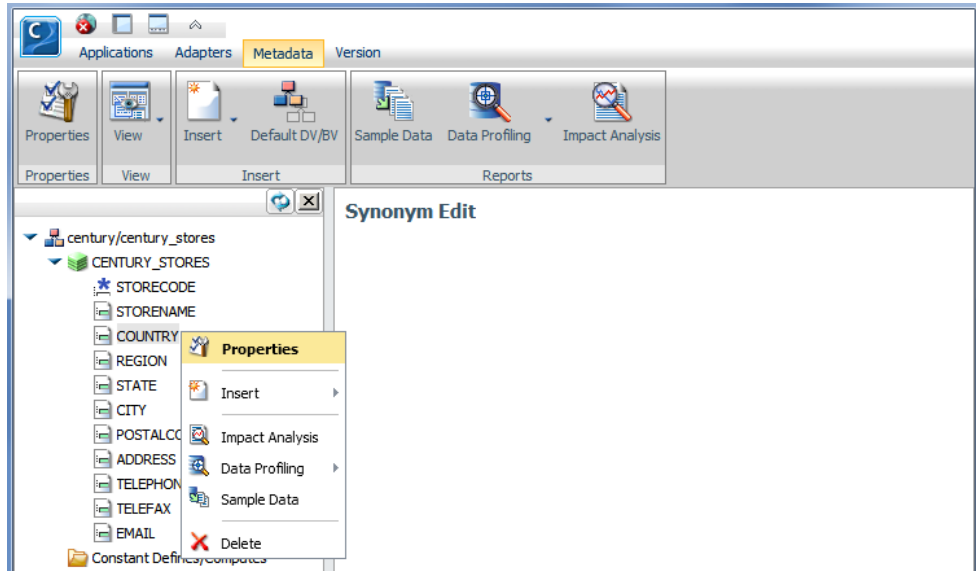
1. From the DB2 Web Query repository tree, right-click the folder where your parameterized report resides and select *Metadata*, then *Edit*. This will open the Web Console and display a list of application directories, as shown in the following image.



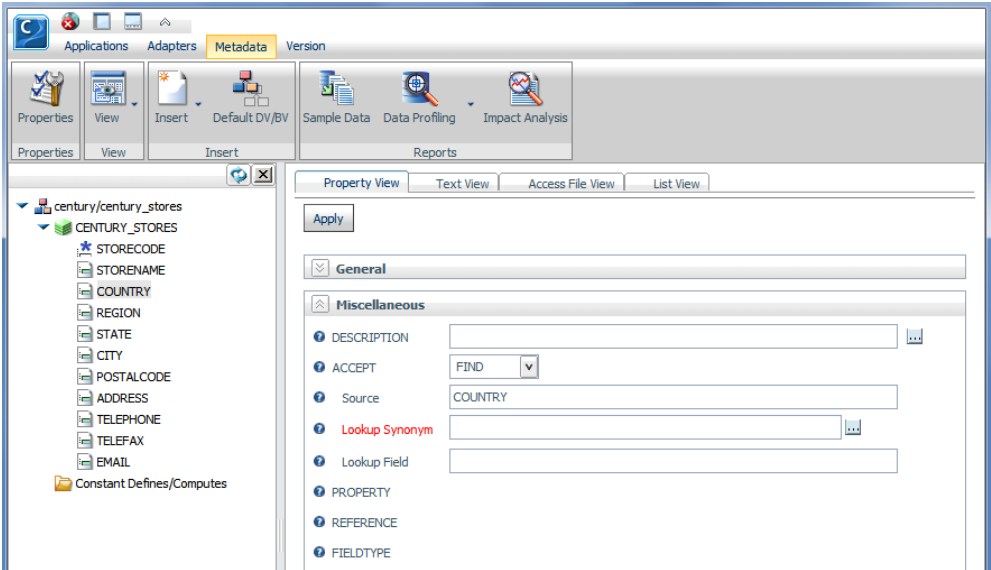
2. Open the application directory and right-click on the synonym being used by your parameterized report and select *Open*, as shown in the following image.



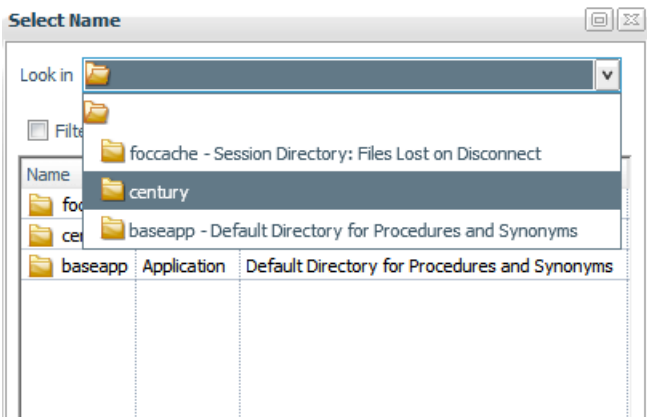
3. The Synonym Editor opens. Locate the field that is being used as a parameter. In this example, we are using Country. Double-click the field or right-click the field and select *Properties*, as shown in the following image.



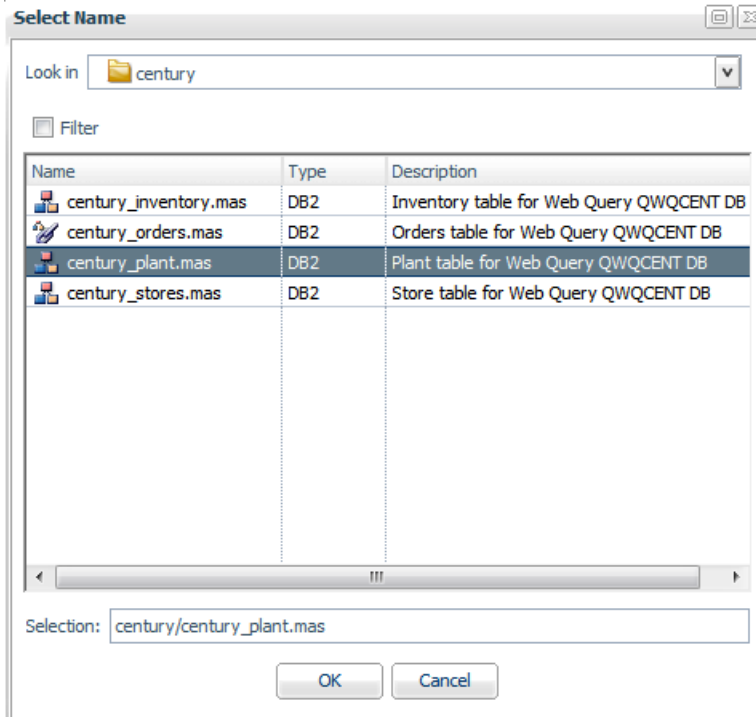
4. The Properties dialog box displays in the right pane. In the Miscellaneous section, change the ACCEPT property value to FIND. A new Lookup Synonym property appears, as shown in the following image.



5. Click the *Lookup Synonym* File Picker button. The Select Name dialog box opens. Click the Look in drop-down list box and select the application directory that contains the lookup synonym, as shown in the following image.

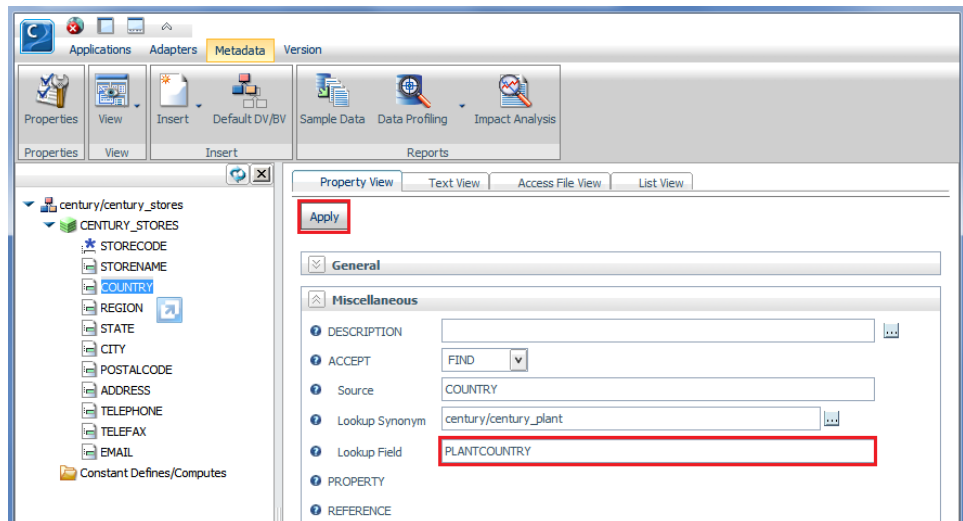


6. A list of synonyms for the selected application directory appears. Select the synonym to use for the lookup. In this example, we are using `century_plant.mas`, as shown in the following image.

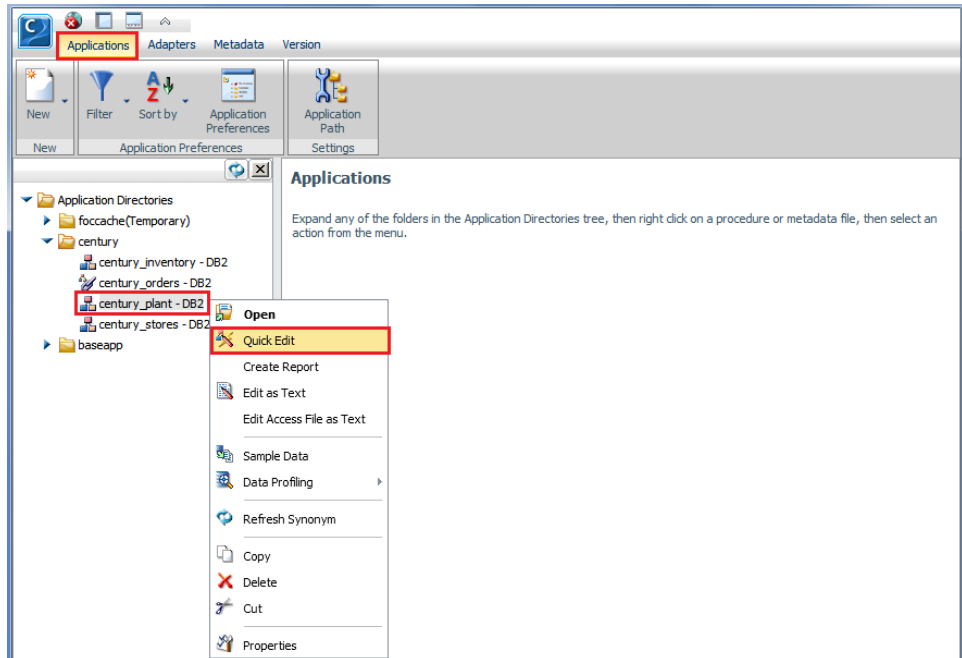


7. Click OK.

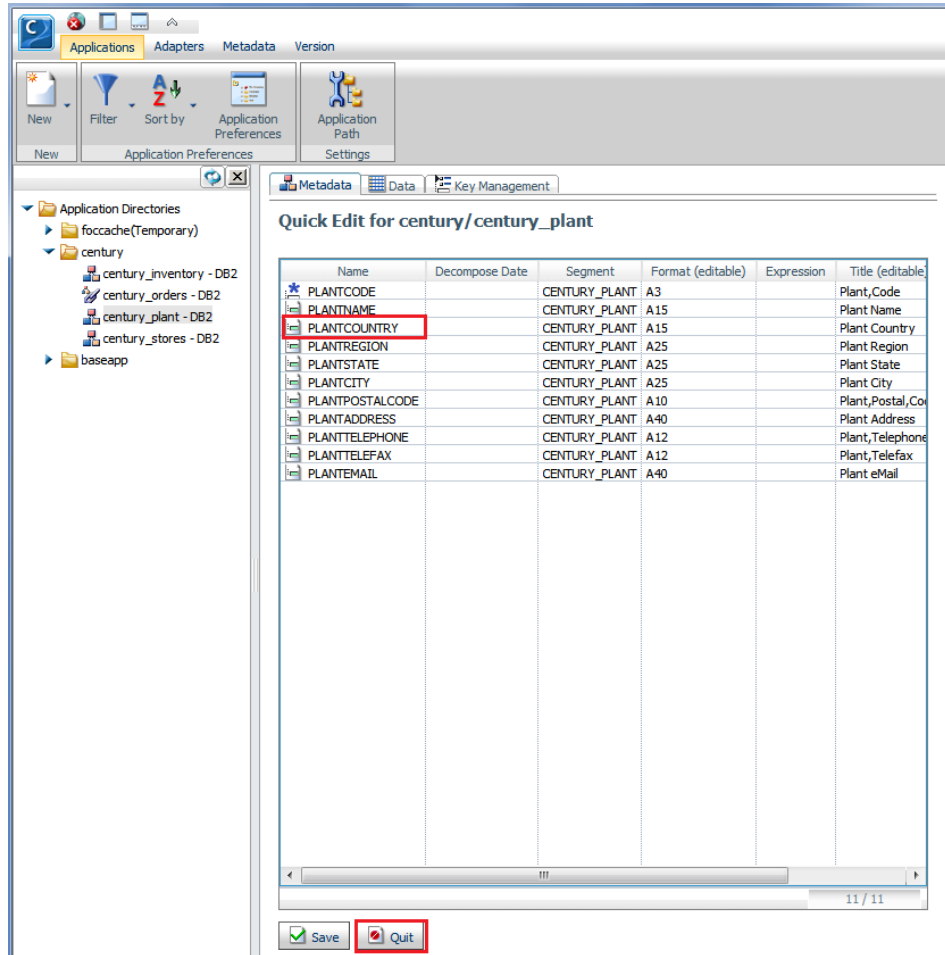
8. Enter the field name for the Lookup Field property and click *Apply* to save your changes, as shown in the following image.



Tip: If you do not know the field on which the lookup will be performed, you can click the *Applications* tab and bring up the synonym in Quick Edit, as shown in the following image, to see the list of fields.

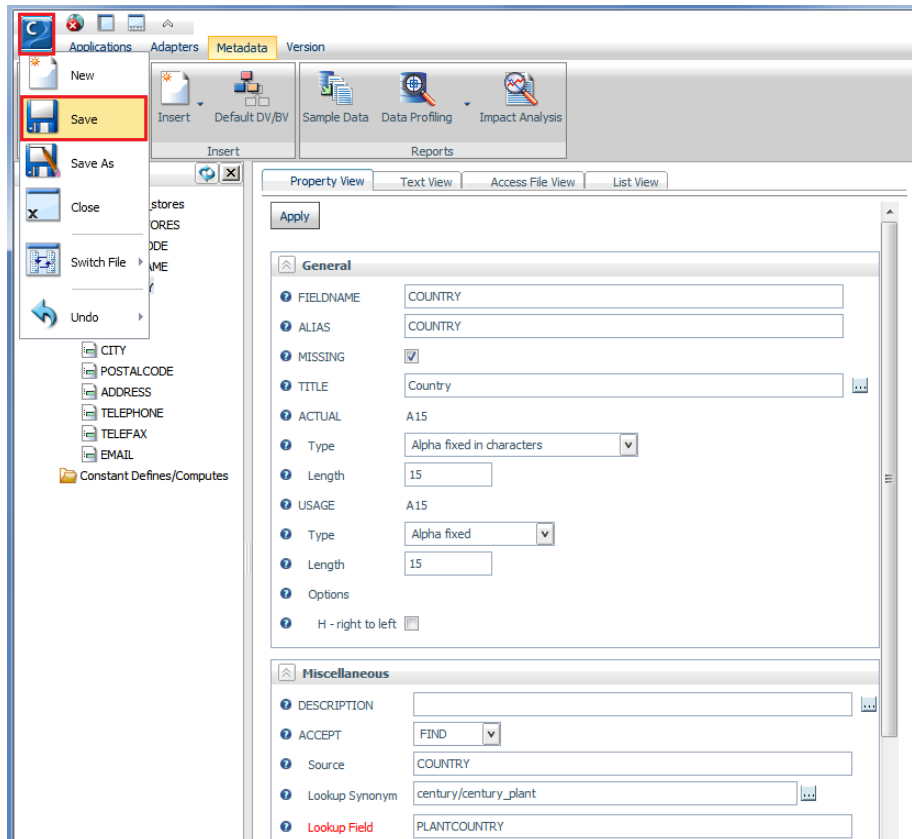


Quick Edit will list the field names, as shown in the following image.



9. Once you find the lookup field name, you can highlight and copy the field name using Ctrl+C.
10. Click *Quit* when you are done with Quick Edit.
11. Return to the original synonym by clicking the *Metadata* tab. You will have to open the properties for the parameter field again. Paste the value into the Lookup field property using Ctrl+V.

12. Save all your changes to the synonym by clicking the *Other options* button, then Save, as shown in the following image.



You are now ready to run your parameterized report, where the values for the Country prompt are retrieved from the lookup synonym/field name of century_plant.mas/PLANTCOUNTRY.

Additional HTML5 Chart Types (Beta)

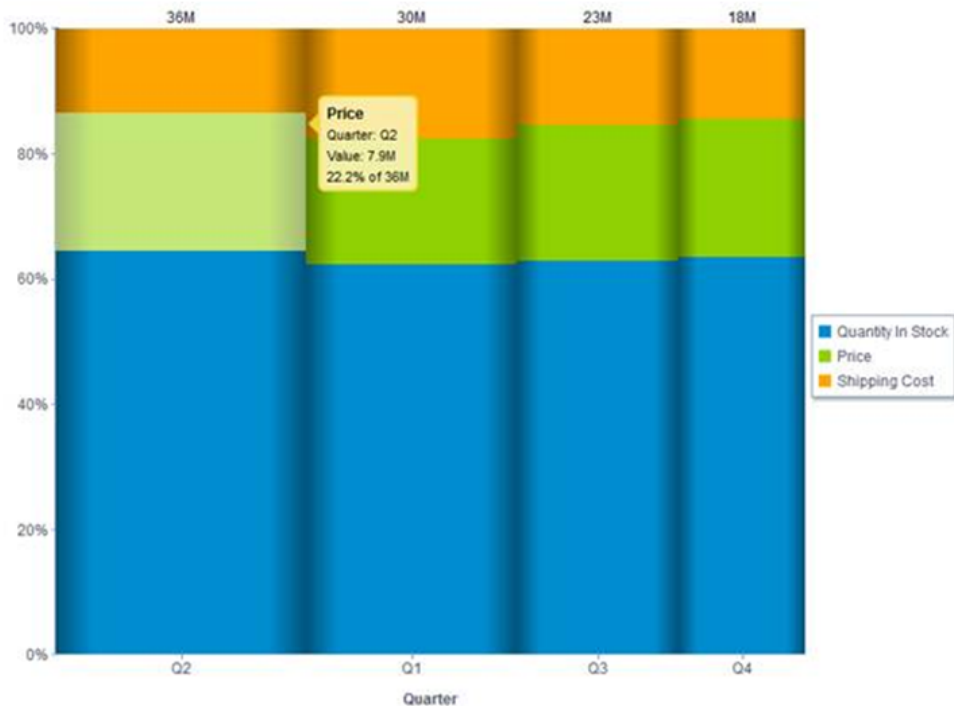
HTML5 is the new web standard for constructing and viewing interactive content on the web and is supported by all the major browsers. HTML5 format has been introduced with the introduction of DB2 Web Query v2.1. HF4 introduces a number of new HTML5 chart types:

- ☐ Mekko
- ☐ Tag Cloud
- ☐ Parabox

❑ Streamgraph

A Mekko chart is a variant of a stacked bar chart that adjusts the width of each stack relative to its total value for the entire data set. These graphs are very popular in the management consultancy industry.

When to use: Use a Mekko chart when you want to show the relative width (contribution) of each category at the same time you examine the percentage breakdown within the category.

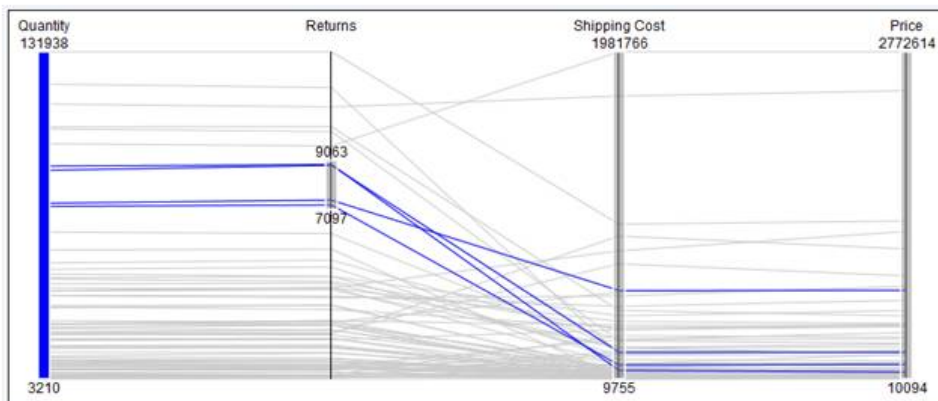


When to use: Use a Tag Cloud to display the relative prominence of terms.



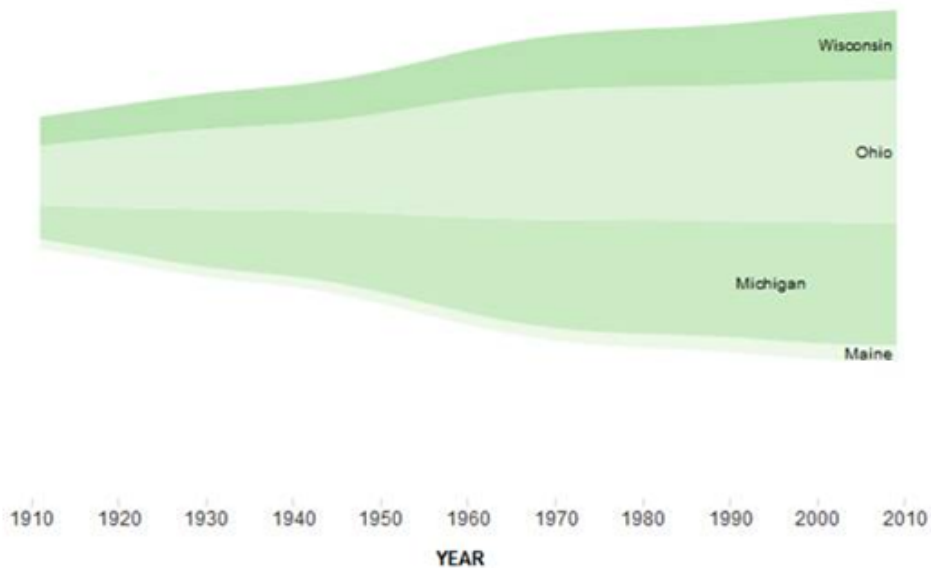
A Parabox, or parallel coordinates graph, is a common way of visualizing high-dimensional geometry and analyzing multivariate data. WebFOCUS Parabox graphs are single-dimension and multi-measure graphs. They are highly interactive with each vertex becoming an interactive slider enabling ad hoc filtering. As elements are filtered, the non-selected lines are automatically grayed-out, indicating that they are no longer in the active data set.

When to use: Use a Parabox when you wish to show many dimensions, limited only by horizontal space.



A Streamgraph is a form of stacked area chart that is particularly useful for visualizing data with a fluid timescale format.

When to use: Use a Streamgraph when you wish to show the relative magnitude over time of multiple entities.



Enhanced WRKWEBQRY Panel

The WRKWEBQRY (Work with Web Query) command panel has been enhanced to provide more information to the Web Query administrators. An example of the new panel is shown in the following image.

```

3/28/13 13:05:03          Work with DB2 Web Query          NESTLES

DB2 Web Query status: Active

Port  Status  Named Users  Runtime Groups  Dev Workbench users
12331 Active      4             4             4
12332 Active      4             4             4
12333 Active      0             0             0
12334 Active
12335 Active
12336 Active
12338 Active
12339 Active

Product ID/Version . . . 5733WQX V2R1M0
Latest group PTF level . 0
Prerequisite status . . . Not Installed
                             (Display joblog for details)

Type options, press Enter.
  1=End DB2 Web Query    4=End immediately    5=Work with Runtime Environments
  
```

New information includes:

- ❑ DB2 Web Query ports and their status.
- ❑ The maximum number of licenses (as determined by the license key), the number of licenses allocated on the local partition, and the number of licenses allocated across all partitions on the system for each of the following types of user licenses:
 - ❑ Named users (developers)
 - ❑ Runtime groups
 - ❑ Developer Workbench users
- ❑ The DB2 Web Query product ID and current version, release, and modification level.
- ❑ The latest installed DB2 Web Query group PTF.

- ❑ The installation status of DB2 Web Query prerequisite products and PTF's. If the value displayed is *Not Installed*, the administrator can exit this panel and issue the DSPJOBLOG command. The job log will contain specific information about what prerequisites are missing from the system.

In addition, option 5 was added to allow administrators to open the new Work with Runtime Environments interface.

SQL GETAUTH User-defined Function (UDF) Support

SQL GETAUTH is an optional IBM i UDF standard exit that allows an extra security layer in system catalog requests. This UDF prevents unauthorized users from seeing unauthorized objects during the create synonym process.

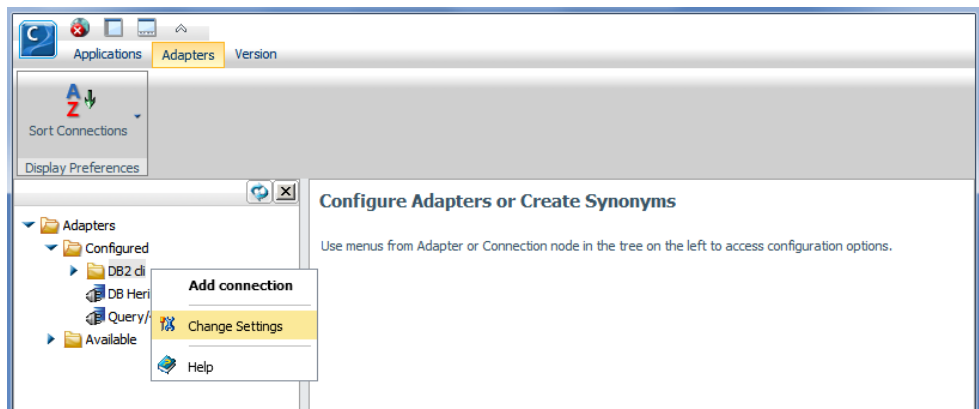
The following requirements apply:

- ❑ UDF support requires IBM i v7.1 and v6.01.
- ❑ Remote v7.1 (or higher) IBM i systems must also have the UDF installed in the same location, if a qualified name is used.

Procedure: How to Enable the SQL GETAUTH UDF

This procedure requires a user ID that is a member of the WebQueryAdministrator group or any folder-dba group. Refer to the Security Concepts section in the DB2 Web Query online help for more information on groups and how to add a user to a group.

1. From the DB2 Web Query repository tree, right click on any folder and select Metadata, then New. This will open the Web Console Adapters window. Right-click on the Adapter for DB2 cli and select Change Settings, as shown in the following image.

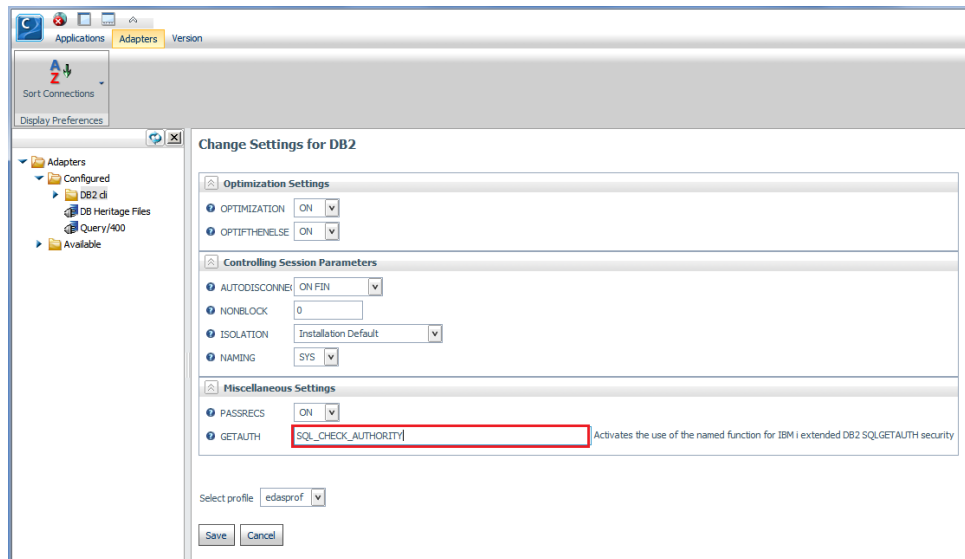


- The Adapter for DB2 cli settings screen appears. Enter `{Library_name}.SQL_CHECK_AUTHORITY` in the GETAUTH parameter as shown:

where:

Library_name

Is the optional library name where the SQL_CHECK_AUTHORITY resides.



- Click Save to complete the procedure. The Adapter for DB2 cli is now configured with the SQL GETAUTH UDF.

Dynamic Run-Time Environments

Many IBM i customers have multiple data environments to support their applications. Each environment may contain tables (data sets) that are identical in name and format, but contain data that is different.

Examples of this are:

- ❑ Development, test, and production environments that have different data sets.
- ❑ A state database that has different data sets for each county in the state.
- ❑ A SaaS (Software as a Service) Provider that has different data sets for each of their clients.

These environments are distinct because the tables are located in different libraries. Each library can have files and formats that are identical to those in other libraries. The only thing that is different is the data itself. For DB2 Web Query users, it was somewhat difficult and cumbersome for users to change library lists so that the table in the desired library could be queried. To address this, support for Dynamic Runtime Environments (RTE) has been added to group PTF level 4.

- ❑ RTE is a library list and optional exit program.
- ❑ Defined by an administrator and users are assigned to them.
- ❑ Users select which RTE to activate from the BI Portal interface.
- ❑ Users no longer have to sign off and back on, they simply choose the RTE to activate.
- ❑ Active RTE is executed prior to every FEX request, so the correct library list is set up prior to the query execution.
- ❑ Greatly simplifies dynamically changing the library list.

For more information, see the DB2 Web Query Dynamic Runtime Implementation guide at:

https://www.ibm.com/developerworks/mydeveloperworks/wikis/home?lang=en_US#/wiki/W516d8b60d32c_4fc5_a811_5f3d840bf524/page/Dynamic%20Runtime%20Environments

DB2 for LUW (Linux®, UNIX®, Windows®) Support

DB2 Web Query automatically detects an LUW connection and sets the correct isolation level. There is no need to perform any additional configuration steps besides entering the standard Adapter for DB2 connection parameters.

Kerberos Support

Kerberos has grown to become one of the most widely deployed systems for authentication and authorization in modern computer networks. Kerberos can now be used for single signon authentication in a DB2 Web Query environment. For more information, see the DB2 Web Query Kerberos Implementation guide at:

https://www.ibm.com/developerworks/mydeveloperworks/wikis/home?lang=en_US#/wiki/W516d8b60d32c_4fc5_a811_5f3d840bf524/page/SSO%20Kerberos

Known Issues

The following are known problems and will be addressed in a future version of DB2 Web Query.

Spreadsheet Client

Microsoft Excel 64-bit versions are not yet supported by the Spreadsheet Client.

Workaround: A post HF4 PTF will include support for Excel 64-bit versions.

Security

- ❑ Customers with a large number of user IDs on their system may use type ahead in the Import User dialog box to find user IDs more rapidly.

Note: Although user IDs appear in uppercase, type ahead only works if you type lowercase characters.

- ❑ The Change Password button has been removed from the login page. Changing an expired password is still not supported from the Web Query login page.

InfoAssist

The TOC will disappear on reports with many rows and columns.

Workaround: Double-click anywhere on the report to make the TOC reappear.

NLS

- ❑ **Spreadsheet Client.** NLS characters will not be displayed if the PC locale settings do not match the NLS characters being used in Web Query.
- ❑ **Business Intelligence Portal.** The Report Broker Explorer option on the Resource Tree folder is not translated in Eastern European and Asian languages.

Workaround: Use the Menu Bar Tools option to launch the Report Broker Explorer.

- ❑ **InfoAssist.** Although the *to file* format output is a new feature in this release, the file name cannot exceed three characters in DBCS environments.

Change Management

A Web Query developer cannot create a Change Management Export Scenario.

Workaround: A Web Query Administrator user ID must create an export.

RESTful Web Services








































The multiple login feature is not working.

Web Browser Support













The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF4.

-  Supported
-  Supported with minor issues
-  Under evaluation
-  Not Evaluated

Note: Blank cell indicates browser version is not supported.

Web Query Component	Internet Explorer 10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8	Firefox v19 v18	Safari v5.1.5	iOS v5	Chrome v24	Opera v12.14
Reporting								
Active Reports						 <i>AHTML format</i>		
HTML Composer pages (Created in the 7.7.03 or later 7.7.x release)								
Graph Requests								
Graph Requests (HTML5)								
InfoAssist								
HTML Reporting Features								

Web Query Component	Internet Explorer 10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8	Firefox v19 v18	Safari v5.1.5	iOS v5	Chrome v24	Opera v12.14
HTML format (No JavaScript)								
JavaScript components	Standards Mode							
<input type="checkbox"/> Accordion	Compatibility View							
<input type="checkbox"/> HFREEZE								
<input type="checkbox"/> On-demand Paging								
<input type="checkbox"/> Multi-drill								
<input type="checkbox"/> Table of Contents (BYTOC)	Compatibility View							
Interfaces								
Amper Auto-prompting								
BI Portal								
Developer Workbench (Requires Internet Explorer)								
OLAP								
Report Broker								

Web Query Component	Internet Explorer 10 (32-bit)	Internet Explorer v9 (32-bit)	Internet Explorer v8	Firefox v19 v18	Safari v5.1.5	iOS v5	Chrome v24	Opera v12.14
Administration Tools								
Security Center								
Web Query Administration Console								

Note:

- ❑ Release 2.1 HF3 and earlier Developer Workbench requires Microsoft Internet Explorer and will always use the Internet Explorer browser even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML is provided using an image embedding facility based on the client browser. Output generated by Internet Explorer browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) support image inclusion through the creation of a web archive file (.mht). For all other browsers, images are 64-bit encoded within the generated .htm file.
- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with the Safari web browser.
- ❑ Adobe Reader Support:
 - ❑ Adobe X is certified. This is required when using Internet Explorer Version 8 to view embedded PDF reports in Business Intelligence Portal or InfoAssist.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the configuration information for the specific browser on how to change the Application Options settings for the relevant content types so that the browser will automatically use the Adobe Reader.

- ❑ A Java VM on the user machine is required for viewing migrated applet-based graph output created in previous 1.1.x releases. For the web browser to process applets, the following is needed:
 - ❑ Sun Java VM 1.6 or higher must be installed on the end user machine. On Windows 7 64-bit versions, a 32-bit JVM is needed when using the Internet Explorer 32-bit version, which is the default, or Firefox browser.
 - ❑ The end user browser must be configured to use the VM as a plug-in.

This documentation describes the new features available in the December 2012 - Hotfix 3 release.

It is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [RESTful Web Services \(Software Development Kit\)](#)
- ❑ [Change Management](#)
- ❑ [Business Intelligence Portal](#)
- ❑ [Metadata](#)
- ❑ [Known Issues](#)
- ❑ [Web Browser Support](#)

RESTful Web Services (Software Development Kit)

The Software Development Kit has been enhanced and simplified by employing a new architecture web service.

The REST architectural style was developed in parallel with HTTP Version 1.1, based on the existing design of HTTP Version 1.0. The largest implementation of a system conforming to the REST architectural style is the World Wide Web. REST exemplifies how the architecture of the web emerged by characterizing and constraining the macro-interactions of the four components of the web, namely origin servers, gateways, proxies, and clients, without imposing limitations on the individual participants. As such, REST essentially governs the proper behavior of participants.

REST-style architectures consist of clients and servers. Clients initiate requests to servers, servers process requests and return appropriate responses. Requests and responses are built around the transfer of representations of resources. A resource can be essentially any coherent and meaningful concept that may be addressed. A representation of a resource is typically a document that captures the current or intended state of a resource.

The client begins sending requests when it is ready to make the transition to a new state. While one or more requests are outstanding, the client is considered to be in transition. The representation of each application state contains links that may be used the next time the client chooses to initiate a new state transition.

REST facilitates the transaction between web servers by allowing loose coupling between different services. REST is less strongly typed than its counterpart, SOAP. The REST language is based on the use of nouns and verbs, and has an emphasis on readability. Unlike SOAP, REST does not require XML parsing and does not require a message header to and from a service provider. This ultimately uses less bandwidth. REST error handling is also different from that used by SOAP.

What Are RESTful Web Services?

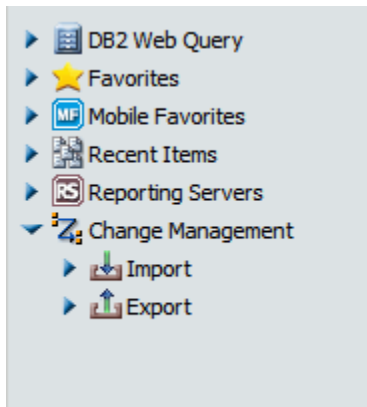
A RESTful web service (also called a RESTful web API) is a web service that is implemented using HTTP and the principles of REST. It is a collection of resources with four defined aspects:

- ❑ Base URL for the web service, such as:
<http://example.com/resources>
- ❑ Internet media type of the data supported by the web service. This is usually XML, but can be any other valid Internet media type providing that it is a valid hypertext standard.
- ❑ Set of operations supported by the web service using HTTP methods (for example, GET, PUT, POST, or DELETE).
- ❑ The API must be hypertext driven.

For more details on RESTful Web Services, see the *DB2 Web Query RESTful Web Services Developer's Guide*.

Change Management

The Change Management utility is available for this release. It allows you to export and import objects from and to a DB2 Web Query repository. Similar to Web Query Version 1.1.2, developers and administrators have access to the Change Management utility. The main difference is that the utility is available from the Web Query Resource Tree, as shown in the following image.



Business Intelligence Portal

There is a change in behavior to the Resource Tree. The indicators have been enhanced to provide an improved visual experience. All items are now in plain font. Published objects are indicated by a colored icon. Unpublished objects are indicated by a gray icon. Hidden objects, formerly known as *do not show on users list* objects, have not changed and are indicated by a transparent icon.

Metadata

If a synonym is created without any key fields, Create Synonym will generate an informational FOC1789 message:

Created successfully. (FOC1789) Specify value for KEYS attribute in Synonym Editor for each SEGMENT

A new Quick Edit option is available to define key fields, if needed. Right-click the Edit Synonym action and select *Edit*. The Quick Edit screen has a Key Management tab that allows you to define which fields are key fields, as shown in the following image.

MetadataDataKey Management

Quick Edit for baseapp/ORDERS

Key fields are located at the top of the list, and must be contiguous. Any gap between key fields will be filled automatically.

Key	Name	Decompose Date	Segment	Format	Expression	Title	Description
<input type="checkbox"/>	ORDERNUMBER		ORDERS	A5		Order,Number	
<input type="checkbox"/>	PRODUCTNUMBER		ORDERS	A4		Product,Number	
<input type="checkbox"/>	ORDERDATE	<u>Decompose</u>	ORDERS	YYMD		Order,Date	
<input type="checkbox"/>	STORECODE		ORDERS	A6		Store,Code	
<input type="checkbox"/>	PLANTCODE		ORDERS	A3		Plant,Code	
<input type="checkbox"/>	SALESREP		ORDERS	A50		Sales Rep	
<input type="checkbox"/>	QUANTITY		ORDERS	I11		Quantity	
<input type="checkbox"/>	LINETOTAL		ORDERS	P22.2		Revenue	
<input type="checkbox"/>	COSTOFGOODSSOLD		ORDERS	P22.2		Cost of,Goods Sold	
<input type="checkbox"/>	RETURNS		ORDERS	I11		Returns	
<input type="checkbox"/>	WARRANTYEXP		ORDERS	P22.2		Warranty,Expenses	
<input type="checkbox"/>	SHIPPINGCOST		ORDERS	P22.2		Shipping,Cost	

☒ Apply

Known Issues

The following are known problems and will be addressed in a future version of DB2 Web Query.

Migration

- ❑ An unsupported file type in Web Query Version 1.1.x, for example, a file extension of .URL, will cause the migration import process to fail.

Workaround: Remove the unsupported file type from your v11x installation and rerun the migration process.

- ❑ The following is a change in behavior to the HF3 Migration process. The XML and log files generated by the migration process are now generated in the following IFS directory:

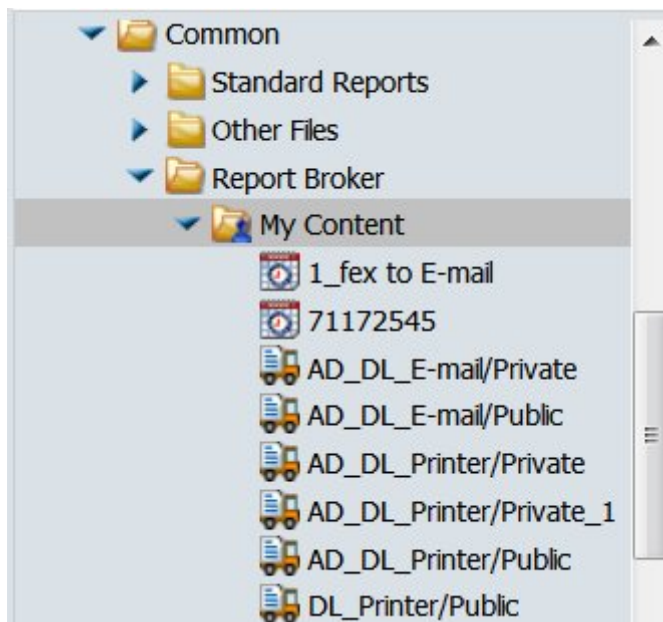
[/qibm/UserData/qwebqry/base80/migration_import](#)

In addition, migrated Report Broker content is now placed in the following repository folder:

[IBFS:/WFC/Repository/untitled/ReportBroker/~userID](#)

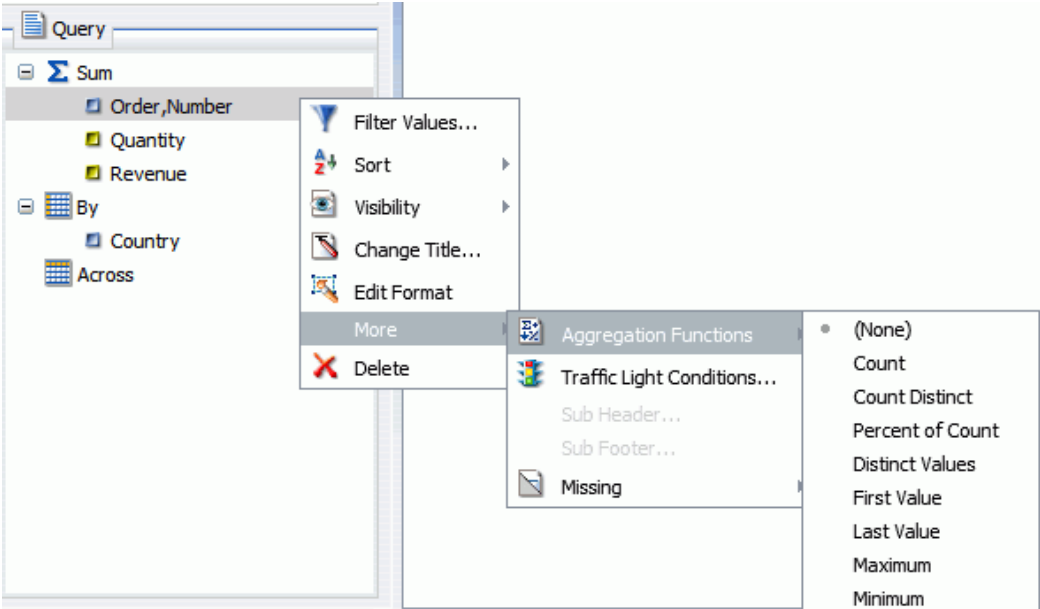
where [~userID](#) is the used ID that owns the Report Broker content

This folder will appear in the repository as a My Content subfolder of the Common/Report Broker folder as shown in the following image:

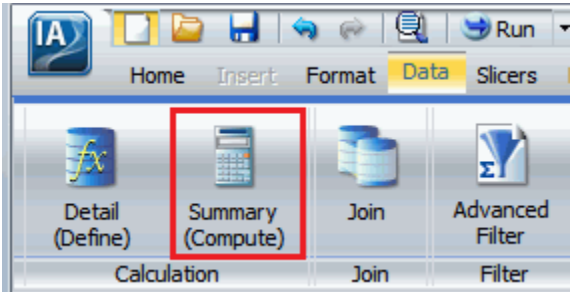


OLAP

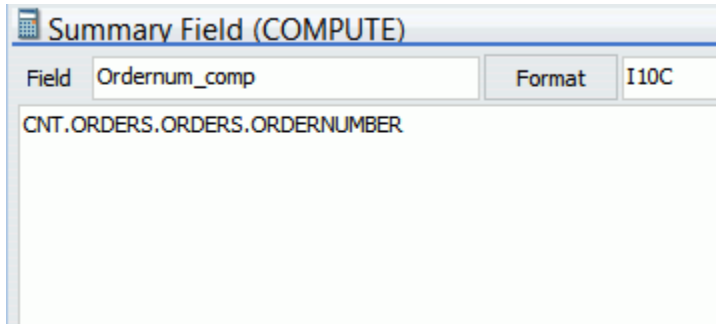
A drill down on a dimension will fail if a report contains a measure that is being aggregated using the aggregation functions in InfoAssist, as shown in the following image.



Workaround: Remove the aggregated field or fields from the report and replace them with a Computed field. To create a Computed field, click on the *Summary* button on the InfoAssist Data tab, as shown in the following image.



Select the field, for example, ORDERNUMBER, and prefix it with the aggregation function syntax. For example, if you are doing a COUNT on the ORDERNUMBER field, you would prefix the field with CNT., as shown in the following image.



The following is a list of the prefixes that you would use to replace the aggregation function in the Sum fields.

Aggregation Function	Prefix
Maximum	MAX.FIELDNAME
Minimum	MIN.FIELDNAME
Average	AVE.FIELDNAME
Distinct values	DST.FIELDNAME
Total	TOT.FIELDNAME
Percentage	PCT.FIELDNAME
Row percentage	RPCT.FIELDNAME
Average square	ASQ.FIELDNAME

Note: Count Distinct and Percent of Count are not subject to this problem.
















































Web Browser Support

The following table provides browser support information for Web Query product components for Web Query Version 2.1 HF3

 Supported  Supported with minor issues

 Under evaluation  Not Evaluated

Note: Blank cell indicates browser version is not supported.

Web Query Component	Internet Explorer v9 (32bit)	Internet Explorer v8	Firefox v17	Firefox v16 v15 v14	Safari v5.1.5	iOS v5	Chrome v21	Opera v12.02
Reporting								
Active Reports						 <i>AHTML format</i>		
HTML Composer pages (Created in the 7.7.03 or later 7.7.x release)								
Graph Requests								
Graph Requests (HTML5)								
InfoAssist								
HTML Reporting Features								
HTML format (No JavaScript)								

Web Query Component	Internet Explorer v9 (32bit)	Internet Explorer v8	Firefox v17	Firefox v16 v15 v14	Safari v5.1.5	iOS v5	Chrome v21	Opera v12.02
JavaScript components								
Accordion								
HFREEZE								
Multi-drill								
On-demand Paging								
Table of Contents (BYTOC)								
Interfaces								
Amper Auto-prompting								
BI Portal								
Developer Workbench (Requires Internet Explorer)								
OLAP								
Report Broker								
Administration Tools								
Security Center								
Web Query Administration Console								

Notes:

- ❑ Developer Workbench requires Microsoft Internet Explorer and will always use the Internet Explorer browser even when Internet Explorer is not configured as the default browser.
- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Support for presenting images and graphs in HTML is provided using an image embedding facility based on the client browser. Output generated by IE browsers or in scenarios where the browser is unknown (such as distributed by Report Broker) support image inclusion through the creation of a web archive file (.mht). For all other browsers images are 64bit encoded within the generated .htm file.
- ❑ Mac Users: Firefox browser is supported on the Macintosh operating system. Firefox browser functionality is consistent with Safari Web browser.
- ❑ Adobe Reader Support
 - ❑ Adobe X is certified. Required when using Internet Explorer Version 8 to view embedded PDF reports in BI Portal or InfoAssist.
 - ❑ Adobe Acrobat Reader Version 9 is supported.
- ❑ A Java VM on the user's machine is required for viewing migrated applet based graph output created in previous 1.1.x releases. For the Web browser to process applets, the following is needed:
 - ❑ Sun Java VM 1.4.2_06 or higher must be installed on the end user's machine. On Windows 7 64-bit versions a 32 bit JVM is needed when using IE 32-bit version, which is the default, or Firefox browser.
 - ❑ The end user's browser must be configured to use the VM as a plug-in.

This documentation describes the new features available in the October 2012 - Hotfix 2 release.

It is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [SDK \(Software Development Kit\)](#)
- ❑ [DB2 Web Query Application Extension](#)
- ❑ [DB2 Web Query 5250 Reporting Extension](#)
- ❑ [Known Issues](#)

SDK (Software Development Kit)

The SDK option is available for use in this release. Migrated procedures will continue to work, however there is new behavior for procedures developed in DB2 Web Query Version 2.1.0. In order for new procedures to work with the SDK, you must meet these requirements:

- ❑ The synonyms used by the procedure must reside in the *baseapp* application directory. To move the synonym to the *baseapp* directory:
 1. Log on with a Web Query Administrator user ID.
 2. On the resource tree, expand the *Reporting Servers* node until you see a list of application directories.
 3. Open the application directory that contains the synonym used by the procedure.
 4. Select the synonyms, both .MAS and .ACX. You can select multiple synonyms.
 5. Right-click the selected synonym and click *Copy*.
 6. Right-click the *baseapp* application directory and select *Paste*.
- ❑ The new procedure must reside in a folder structure compatible with Version 1.1.x. To create the folder structure:

- 1. Within your top-level folder, create a subfolder named *std_reports* (you can rename it to something more meaningful later).
- 2. Within *std_reports*, create another subfolder. Name it anything you like, for example, *Sales_Reports*.
- 3. Create your report within this subfolder (*Sales_Reports* in our example).

❑ Provide the correct values when developing new SDK programs.

The terminology change in DB2 Web Query Version 2.1 needs to be understood in order to provide the correct values when using the SDK web services. Here are the three input values used in the SDK structure and their associated mapping within Version 2.1:

SDK Input	DB2 Web Query Version 2.1 Object
MREdomain	Top-level folder name
MREfolder	Subfolder name under std_reports
Report	Procedure name

To see the full path of a procedure in Version 2.1, right-click a procedure and select *Show Path*. You will see the full path of the object. For example, create a new procedure called Top10 in the Sales_Reports folder. The full path of this procedure would be:

[IBFS:/WFC/Repository/Sales/std_reports/Sales_Reports/Top10.fex](#)

In this example, the following values would be used:

SDK Input	DB2 Web Query Version 2.1 Object
MREdomain	Sales
MREfolder	Sales_Reports
Report	Top10.fex

DB2 Web Query Application Extension

The DB2 Web Query Application Extension is functional in this hotfix.

The DB2 Web Query Application Extension allows a Web Query executable to be run by invoking a URL. This Web Query executable can be any of the following:

- ☐ Report
- ☐ Graph
- ☐ Compound Document

Each executable is represented by a unique URL. The executable can be run by invoking the appropriate URL from another application or by specifying the URL directly in a web browser. For example, the following command can be specified in a web browser to run the monthly revenue report, located in the Sales_Reports top-level folder and subfolder std_reports/January:

```
http://host:12331/wqsoa/report?&zrdDomain=SalesReports
&zrdFolder=January&zrdReport=MonthlyRevenueReport.fex
```

Note: Because the Application Extension is based upon the SDK, review the restrictions and limitations documented in [SDK \(Software Development Kit\)](#) on page 261.

More information on the DB2 Web Query Application Extension is available here:

https://www.ibm.com/developerworks/mydeveloperworks/wikis/home/wiki/W516d8b60d32c_4fc5_a811_5f3d840bf524/page/Application%20Extension

DB2 Web Query 5250 Reporting Extension

The DB2 Web Query 5250 Reporting Extension is functional in this hotfix.

The DB2 Web Query 5250 Reporting Extension allows a Web Query executable to be run from an IBM i command interface using the RUNWQFEX command. This Web Query executable can be any of the following:

- ☐ Report
- ☐ Graph
- ☐ Compound Document

The output generated by the RUNWQFEX command can be sent over email, stored in the local IFS, or transferred to another location using FTP. For example, the following command can be specified to run the monthly revenue report, located in the Sales_Reports top-level folder and subfolder std_reports/January and email the report (as an attachment) to the email address OZZIE@ZMAIL.COM:

```
RUNWQFEX WQVLDL(JOEUSER)
FULLPATH('IBFS:/WFC/Repository/SalesReports/std_reports/January/MonthlyRevenueReport.fex')
OUTPUT(*EMAIL) RECIPIENT(ozzie@zmail.com)
SENDER(harriett@ymail.com)
SUBJECT('Revenue report for January')
STYLE(*ATTACHMENT)
```

Note: Because the 5250 Reporting Extension is based upon the SDK, review the restrictions and limitations documented in [SDK \(Software Development Kit\)](#) on page 261.

More information on the DB2 Web 5250 Reporting Extension is available here:

https://www.ibm.com/developerworks/mydeveloperworks/wikis/home/wiki/W516d8b60d32c_4fc5_a811_5f3d840bf524/page/5250%20Reporting%20Extension

Known Issues

The following are known problems and will be addressed in a future version of DB2 Web Query.

NLS

- ❑ Changes to the Dynamic Language Switch option in the Administration Console are not reflected in the language drop-down list on the logon page.

Workaround: Clear your browser cache and reload the logon page.

Business Intelligence Portal

- ❑ Logging onto DB2 Web Query Version 1.1.x and Version 2.1 concurrently will force a logoff of the first logon session. This occurs if the same browser is used and the URLs for both DB2 Web Query versions contain the same host name.

Workaround: There are several things that can be done to allow concurrent logons to both versions:

1. Change the logon URL for one version by using the IP address instead of the host name.
2. Change the logon URL for one version by qualifying the host name with a domain name.
3. Use a different browser for the second logon.

Web-based Synonym Editor

- ❑ The new web-based Synonym Editor cannot be used to edit a synonym in the *baseapp* application directory.

Workaround: Use the Developer Workbench or logon to DB2 Web Query using a Web Query administrator ID and copy the synonym from *baseapp* to a different application directory where it can be edited. To do this, navigate the resource tree as follows:

1. Expand the Reporting Servers node until you see a list of application directories.
2. Open the *baseapp* application directory.
3. Right-click the synonym you wish to edit and select the *Copy* option.
4. Right-click the application directory where the synonym is to be copied to and select the *Paste* option.
5. Right-click the corresponding top-level folder off the DB2 Web Query node and select the *Metadata, Edit* option.
6. After the synonym has been edited, copy the synonym back to the *baseapp* application directory.

OLAP

- ❑ Newly developed procedures using the Analysis and Drilldown Navigation option (OLAP) will run when launched from the DB2 Web Query Portal, but will not surface any OLAP controls.

Workaround: From the resource tree, right-click the procedure and select the *Properties* option. Click *OK* and then run the procedure. Perform this workaround each time you edit and save the procedure.

Note: OLAP-enabled procedures that were migrated from DB2 Web Query Version 1.1.x are not subject to this limitation.

SDK (Software Development Kit)

- ❑ An SDK program will fail if the synonym used by the report is not in the *baseapp* application directory. The synonyms used by a report developed in DB2 Web Query Version 2.1 must reside in the *baseapp* application directory.
- ❑ Report Broker Web Services are not available for use.
- ❑ Reports that use the accordion feature do not work.

RUNWQFEX Command

- ❑ The RUNWQFEX command will run reports migrated from Versions 1.1.x. In addition, it will run new reports created in Version 2.1, provided the report was created in a folder structure compatible with Version 1.1.x. To create a compatible folder structure:
 1. Within your top-level folder, create a subfolder named *std_reports* (you can rename it to something more meaningful later)
 2. Within *std_reports*, create another subfolder. Name it anything you like, for example, *Sales_Reports*.
 3. Create your report within this subfolder (*Sales_Reports* in our example).

Migration/Developer Workbench

- ❑ The application directory, foccache, is for internal DB2 Web Query use only. Foccache was visible in Developer Workbench Version 1.1.2 and could be assigned to the application path of a domain. Any customer who made this assignment will encounter a migration error during the Web Query Version 2.1 installation.

Workaround: Remove the DB2 Web Query Version 1.1.2 assignment and rerun the migration script.

Note that the foccache application directory is no longer visible in Developer Workbench Version 2.1.0.

- ❑ The migration process will abort during the user migration step if an application directory that was used in a DB2 Web Query Version 1.1.x installation does not exist in the Version 2.1 installation.

Workaround: Ensure that the application directory exists in the Version 2.1 installation and rerun the migration procedure.

This documentation describes the new features available in the July 2012 - Hotfix 1 release.

It is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

In this chapter:

- ❑ [RUNWEBQRY Program](#)
 - ❑ [RUNBRSCHEd Program](#)
 - ❑ [Known Issues](#)
 - ❑ [Mobile Technology Operating System Support](#)
-

RUNWEBQRY Program

The RUNWEBQRY program in Web Query 2.1.0 adds the capability of running a report from the new Web Query 2.1.0 repository library.

To run a report from the Web Query 2.1.0 repository, use the procedure full path, which can be retrieved from the Web Query home page tree by right-clicking the report and choosing *Properties*. The Domain HREF and Folder HREF do not need to be populated when running a Web Query 2.1.0 procedure.

Use the full path as listed in Report Properties. The syntax should be as follows:

[IBFS:/WFC/Repository...](#)

Place the value of full path in the File Name (FEX) parameter on the RUNWEBQRY command processing screen.

Note: When running a migrated procedure, use the same parameters as Web Query 1.1.2.

RUNBRSCHEd Program

The RUNBRSCHEd program in Web Query 2.1.0 adds the capability of running a schedule from the new Web Query 2.1.0 repository library.

Use the Schedule ID, which can be found by accessing the properties for the schedule from the right-click menu in the Web Query home page. The Schedule ID is located within the properties line for the schedule properties.

Known Issues

The following are known problems and will be addressed in a future version of Web Query.

InfoAssist

- ❑ Developer Workbench supports custom named hierarchies when implementing OLAP drill-down procedures. The custom name is stored as the hierarchy caption. The caption does not appear in the InfoAssist field list.

Mobile Technology

- ❑ The password option for an active report does not work. This will be resolved in Hotfix 2 (HF2).
- ❑ The JS Fusion Active Chart type is not working. **Workaround:** Use one of the other available chart type engines. This can be set in InfoAssist under the active report options on the Format tab.

Business Intelligence Portal

- ❑ The Stop Request function is not available. **Workaround:** Use IBM i operating system commands to terminate Web Query processes.
- ❑ On the menu bar, the Manage Private Resources option under the Administration menu allows administrators to manage other user content. This feature is not working. **Workaround:** An administrator can turn on the Mode Manager option under Administration menu.
- ❑ Deleting a top-level folder does not delete its associated application directory. **Workaround:** A Web Query administrator can expand the Reporting Servers node on the resource tree and navigate the tree to find the application directory. Right-click the application directory and click the *Delete* option to delete the directory. **Note:** Check to make sure no other top-level folder is using this application directory.

Administration Console

- ❑ The Change Management tool will be available in Hotfix 3 (HF3). **Workaround:** Developer Workbench can be used to move objects between different folders and DB2 Web Query environments.

Mobile Technology Operating System Support

Mobile Favorites and Active Technologies (active report, active PDF, and active dashboards) were introduced in Web Query Version 1.1.2. The following are the supported operating systems for HF1:

- ❑ Android™ Version 2.2 (Froyo) and Version 2.3 (Gingerbread)
- ❑ Apple® iOS Version 4 and Version 5

This documentation describes the new features available in Web Query Version 2.1 for June 2012.

It is intended for all levels of users, including application developers, administrators, and end users. It is also intended to serve as a quick reference for users upgrading from a prior version.

For detailed information on each new feature, see the DB2 Web Query or Developer Workbench product documentation and the New Features product documentation.

In this chapter:

- ❑ [Tools Consolidation](#)
- ❑ [GAP Items](#)
- ❑ [Known Issues](#)
- ❑ [Upgrade Considerations](#)
- ❑ [Business Intelligence Portal](#)
- ❑ [Web Query Client Repository and Authorization Security Enhancements](#)
- ❑ [InfoAssist Enhancements](#)
- ❑ [Metadata Management Enhancements](#)
- ❑ [Developer Workbench Enhancements](#)
- ❑ [HTML Composer Enhancements](#)
- ❑ [Report Broker Enhancements](#)
- ❑ [Web Browser Support](#)

Tools Consolidation

This section describes consolidations made to the product, which emphasize best practices for Web Query Version 2.1.

Effective in Version 2.1, IBM consolidated functionality found in the Report Assistant and Graph Assistant legacy tools into InfoAssist, and has retired the following legacy tools.

HTML Interfaces and Tools

- ☐ Report Assistant
- ☐ Graph Assistant
- ☐ Power Painter

Developer Workbench Report Assistant and Graph Assistant Tools

The Graph Assistant option selected from the Developer Workbench Projects and Web Query Environments Data Server components will invoke InfoAssist in chart mode, providing the same functionality as Developer Workbench Graph Assistant. There is no additional cost to customers with an active maintenance agreement for Developer Workbench.

This aligns with the on-going strategy to consolidate toolsets and to standardize on a common look-and-feel across all report development products. Since the release of Web Query InfoAssist, the strategic initiative is to deliver new and improved Rich Internet Applications that are robust and intuitive without having to install or administrator software on user desktops. In Version 2.1, this strategic initiative will include the new Business Intelligence Portal interface for Managed Reporting.

Report Broker Tools and Distribution Options Consolidation

The Web Query Distribution option to create a new folder for each distribution of report output has been replaced with the ability to select the Web Query folder to distribute the report output to when creating or editing a schedule. Web Query security will be enforced when creating or editing a schedule and during report distribution.

Report and Graph Tools Consolidation

Effective with this version, the Report Assistant, Graph Assistant, and Power Painter Web development tools, and the Developer Workbench Graph Assistant tool have been replaced with Web-based Rich Internet Application facilities. This aligns with the ongoing strategy to consolidate toolsets and to standardize on a common look-and-feel across all report development products.

InfoAssist Basic is a modern, Web-based facility that provides comparable functionality as found in Report Assistant, as well as over 80 chart types. It will include functionality equivalent to that found within Report Assistant and Graph Assistant.

GAP Items

These are features that existed in Web Query V1R1Mx but could not be completed in time for Version 2.1. The main bullet indicates the area of the product and the subbullets indicate the specific features.

Migrating reports from Web Query Version 1.1.x to Version 2.1 is supported. If you plan on migrating reports that use any of the features in this section, note the following:

Business Intelligence Portal Menu bar (Web Query User Interface)

- ☐ Stop Request

InfoAssist

- ☐ Field List Searching
- ☐ Report title
- ☐ Report Output format options
 - ☐ User Output. **Migration Note:** Upon opening a migrated report, an informational message appears informing the user that this feature is not supported and will prompt to switch the report output format to HTML. The user can continue to switch or cancel opening the report.
 - ☐ DB2 database. **Migration Note:** A report using this option should not be run as it will produce an error.
- ☐ Power Painter Advanced Graph options
 - ☐ Chart-Based Properties
 - ☐ Legend
 - ☐ Ordinal Axis
 - ☐ Secondary Ordinal Axis (3D Charts)
 - ☐ Numeric Axis (Y Axis)
 - ☐ Secondary Numeric Axis (Y2 Axis)
 - ☐ Series
 - ☐ Other Reference Objects
 - ☐ Annotations
 - ☐ Miscellaneous/Advanced

- ❑ **Migration Note:** A migrated report will open and run properly, however, it is not possible to manipulate any of the properties.
- ❑ Power Painter.

Lines. **Migration Note:** Upon opening a migrated report, an informational message appears informing the user that this feature is not supported and will prompt to remove the lines from the procedure. The user can continue to remove the lines or cancel opening the report.

Known Issues

The following are known problems and will be addressed in a future version of Web Query.

Business Intelligence Portal

- ❑ You cannot use special characters ('\$', '%', '!', '@', '*', and so on) in top-level folder names or uploaded file names. This is a change in behavior for Web Query Version 2.1.
- ❑ A thirty (30) minute idle session timeout is in effect and will terminate your Web Query session. **Workaround:** The IBM i IAS is configured with a thirty (30) minute idle session timeout that can be altered. Contact IBM support for assistance.

Security Center

- ❑ The QWQADMIN user ID cannot modify user attributes. **Workaround:** Use a user ID that belongs to the WebQueryAdministrator group to edit the user attributes.

Adapters and Metadata

- ❑ Create Synonym for the Adapter for Query/400 will open a new window for the Create Report dialog box. The Metadata window will not close at the end of the Create Report dialog box.
- ❑ The JDE adapters create a special application directory for working files to support the adapters. The authorization list to secure this metadata is not automatically applied to the application directory. **Workaround:** Apply the Authorization List associated with the baseapp application directory to the JDE application directories (jowsec for EnterpriseOne and jdesec for World).

Migration

- ❑ Report Broker configuration settings are not migrated. **Workaround:** Log on to Web Query using the QWQADMIN user ID and launch the Administration Console to set the Report Broker configuration settings.
- ❑ Report Broker migrated schedules are migrated to the Common/Report Broker folder. Only users in the folder-sched group or WebQueryAdministrator group can see the migrated schedules.

NLS

- ❑ Active Technology reports yield an HTTP 500 error in Simplified Chinese.

SDK (Software Development Kit)

- ❑ Web Services are not functioning at this time. WSDL can be created, but the Web Service functions are not working.

CL Programs

- ❑ RUNBRSCHED is not functional. **Workaround:** Use the Web Query Report Broker interface to run schedules.

Developer Workbench

- ❑ Create Synonym is only available from the Data Servers node. This will require a user ID that belongs to the WebQueryAdministrators group.

Mobile Technologies

- ❑ The Mobile Faves application for iPhone® and iPad® does not connect to the Web Query server. **Workaround:** Access the reports using Mobile Favorites from the Safari® browser.

Upgrade Considerations

This section describes upgrade considerations and product changes for Web Query Version 2.1.

New Web Query Administration User ID

QWQADMIN is the new Web Query Administrator user ID that has the ability to manage users and configuration settings for a Web Query installation. The QWQADMIN user ID has the following attributes:

- ❑ The default password is QWQADMIN. For more information, see [How to Change a User Password](#) on page 289.
- ❑ Does not take up a named user license.
- ❑ Can add and remove users to Web Query.
- ❑ Can add or remove other Web Query administrators.
- ❑ Can grant users authorization to specific roles by adding them to groups.
- ❑ Can associate group profiles to specific folder run group(s).
- ❑ Can launch the Report Broker and Administration Consoles to configure the Web Query installation.

- ❑ Cannot manage folders, procedures, schedules, or metadata.

Logging On to DB2 Web Query

The port number has changed for Web Query Version 2.1 to allow it to coexist with your Version 1.1.x installation. The port number in the URL is *always* 12331. This is the pre-configured port for DB2 Web Query Version 2.1.

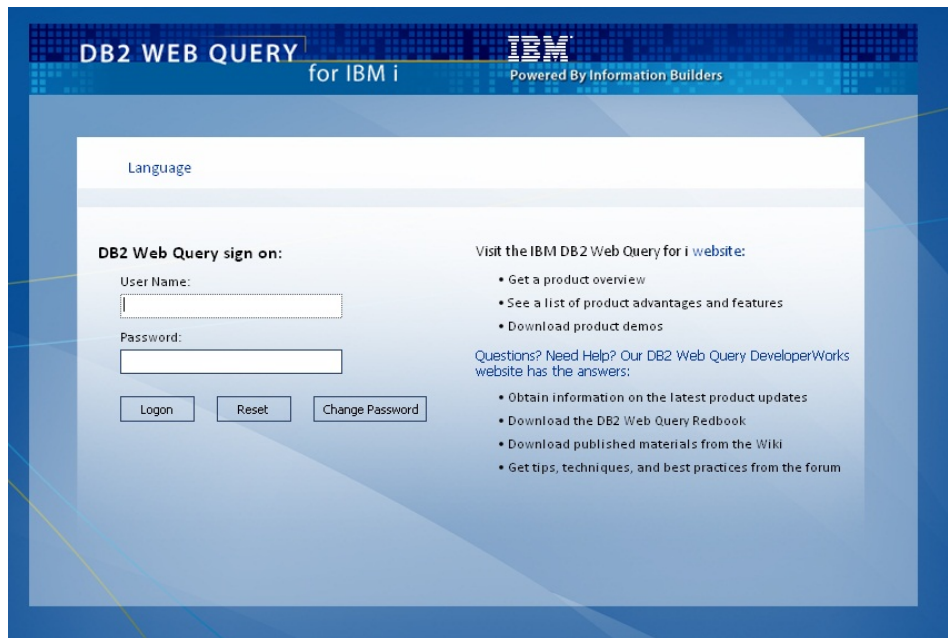
Procedure: How to Log On to DB2 Web Query

In the following task, the system name is MYSYSTEM.ABC.ACME.COM.

1. Enter the following internal URL:

<http://mysystem.abc.acme.com:12331/webquery>

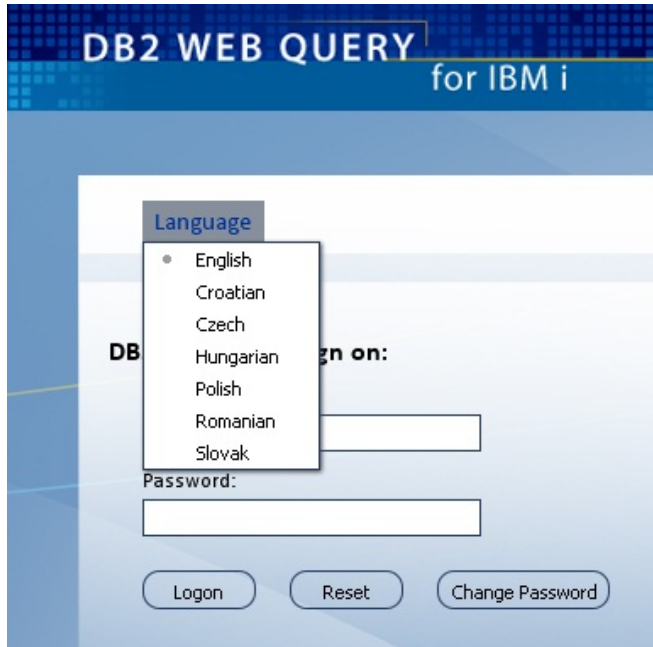
A Web page opens similar to the example shown in the following image.



2. Sign on to DB2 Web Query with the same user profile and password that you use to access the IBM i machine.

Tip: Add your DB2 Web Query URL to your browser Favorites.

If your DB2 Web Query instance was configured with Dynamic Language selection, your logon provides a Language pull-down menu, as shown in the following image.



Web Query Folders

For Web Query Version 2.1, almost all content is stored in the Web Query Client Repository (DB2), as shown in the following image. The only exception is Web Query metadata. Synonyms are still stored in the IFS in application directories.



Web Query content consists of procedures, HTML files, Stylesheets, images, Report Broker schedules, and distribution lists. This content is stored in one or more folders.

Top-Level Folders

Top-level folders reside at the top of the Web Query Client Repository and are used to segregate applications. For example, you may want to have a top-level folder for Sales and another folder for Human Resources (HR), where users can be assigned to one or more folders. A user can have a different set of roles for each folder. For example, a user can be assigned to only run reports in HR, but takes on a developer/dba role in Sales.

Each top-level folder is created with its own set of Web Query Groups that define the authorization rules for the folder. For more information, see [Web Query Groups](#) on page 280.

The Common top-level folder exists for all Web Query installations. The purpose of this folder is to contain content that can be run by all users. If you prefer not to display the Common top-level folder, there is an option to hide it.

Procedure: How to Hide the Common Top-Level Folder

Note: Customers that have migrated from Web Query Version 1.1.x will have their Common Domain contents migrated to the Common top-level folder.

1. Log on to Web Query using the QWQADMIN user ID.
2. Right-click the *Common* top-level folder and click *Hide*.

Application Directories and Metadata Management

Application directories are where synonyms are created. They are IFS directories, which map to the following path:

[/qibm/UserData/qwebqry/apps](#)

In Web Query Version 1.1.x, the baseapp application directory is the default location for newly created synonyms. Synonyms in the baseapp directory are accessible from all Domains. If Developer Workbench was licensed, it could be used to create new application directories, which could be linked to the application directory path of a Domain.

In Version 2.1, the baseapp application directory fulfills the same role in Version 1.1.x. However, a new application directory is created for every top-level folder and is automatically linked to the folder as the first directory of the application directory path.

The application directory path is searched whenever a synonym is required to:

1. Develop a new procedure.
2. Edit an existing procedure.
3. Run an existing procedure.

The automatic creation of this application directory and making it first in the application directory path allows you to segregate synonyms without using Developer Studio. Synonyms that only pertain to one top-level folder or application should be created in that application directory. Synonyms that need to be shared across all applications should be copied or created in the baseapp directory.

Note: If a synonym with the same name exists in both application directories of the application directory path, the first one found in the path will be used.

Web Query Groups

Web Query Groups are predefined to represent a specific set of functions or roles. Global Groups define a role at the Web Query product level and apply across folders, whereas folder Groups define a role at the top-level folder level.

The two global Groups are defined as follows.

Group Name	Role Description
WebQueryAdministrator	Can perform all functions in Web Query and can access all folders.
DevWorkBench	Can connect to Web Query using Developer Workbench.

The six folder Groups are defined as follows.

Group Name	Role Description
Folder-run	Can run procedures in the respective folder.
Folder-analyst	Folder-run role plus ability to develop and run procedures in private folders.
Folder-dev	Folder-analyst role plus ability to develop, run, and publish procedures in published folders within the respective folder.
Folder-dba	Can manage metadata in the respective application folder.
Folder-sched	Can manage schedules and distribution lists in the respective folder.
Folder-admin	Can manage users in the respective folder. <div>Note: A Folder-admin cannot acquire or release a developer or group profile license.</div>

Each top-level folder that is created will automatically have the six folder based groups created in the Web Query repository.

For example, if you add a top-level folder named *Sales*, the following six groups are automatically created:

- ❑ **Sales-run.** Can run reports in the Sales folder.

- ❑ **Sales-analyst.** Can develop and run reports in private folders within the Sales folder.
- ❑ **Sales-developer.** Can develop, run, and publish reports in a published folder within the Sales folder.
- ❑ **Sales-dba.** Can manage metadata in the Sales folder application directory.
- ❑ **Sales-sched.** Can manage schedules and distribution lists in the Sales folder.
- ❑ **Sales-admin.** Can add a user to or remove a user from the Sales folder group.

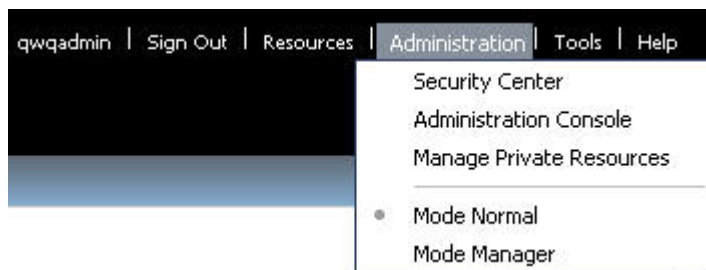
Users are added to one or more groups to provide the functionality they require to perform their job. This is done using the Security Center.

Security Center

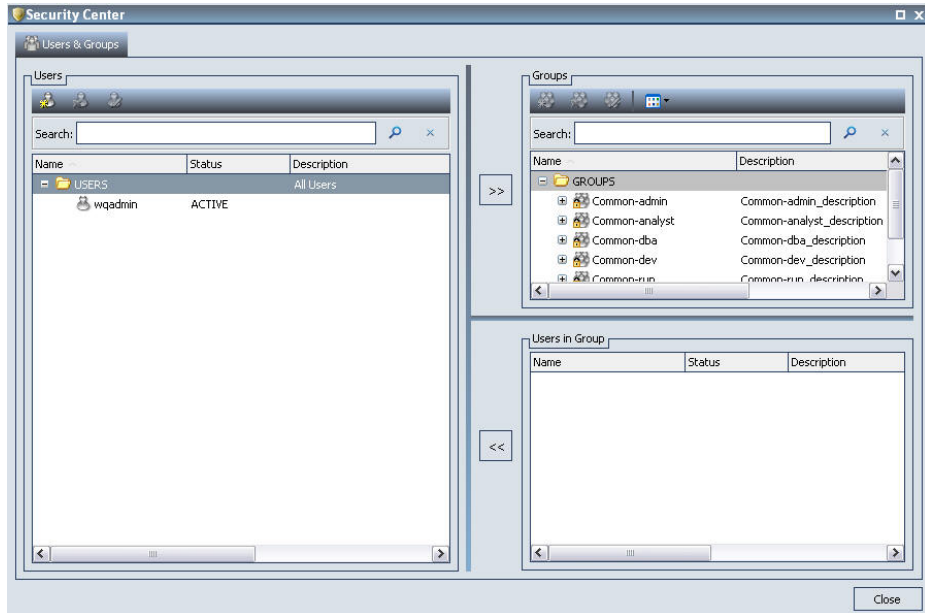
User Management is now handled through the Web Query Security Center. This is a graphical user interface that simplifies Web Query user administration because it is tightly integrated with License Manager and will dynamically update license information.

Procedure: How to Launch the Security Center

1. Sign on to Web Query as QWQADMIN.
2. On the menu bar, right-click *Administration* and select *Security Center*.




The Security Center opens, as shown in the following image.



Procedure: How to Create a User

Once you add a new folder, you can create users and add them to a group in that folder.

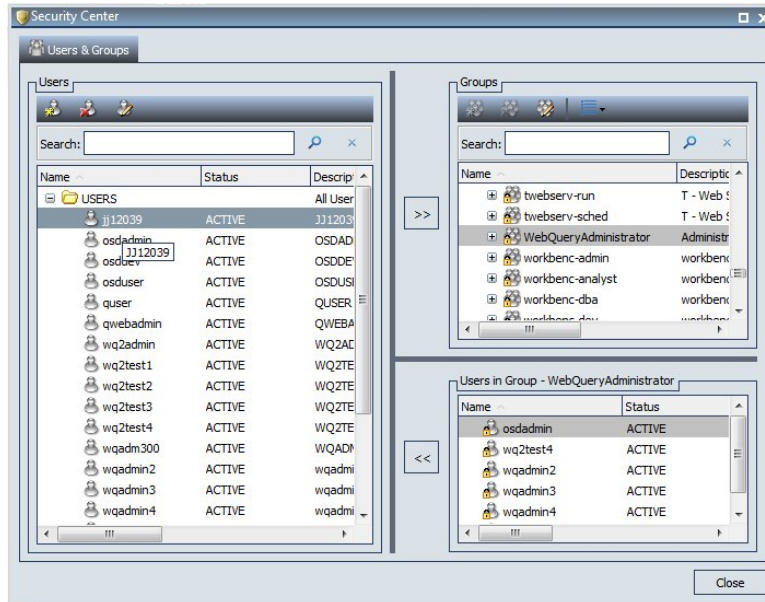
1. Launch the Security Center.
2. Click the *New User* icon . The New User dialog box opens.
3. Select one or more users from the list and click *Import Users* to add the user ID(s) as a named user (developer) to Web Query 5733WQX.

Procedure: How to Designate a Web Query Administrator

The first task in user management is for the owner of the QWQADMIN user ID to add a user to Web Query and assign it the role of a Web Query Administrator. This user ID will in turn be able to create top-level folders and perform user management. These users cannot add another Web Query administrator.

1. Launch the Security Center.
2. In the Users panel, select the user(s) to add to the group.

3. In the Groups panel, select the WebQueryAdministrator Group, as shown in the following image.



4. Click the *Add selected users to group* button to add the user to the group.

Tip: You can also add users by dragging and dropping the selected users into a group.

5. Click *Done* or close the Security Center to exit.

The owner of this newly added Web Query Administrator user ID can now log on and manage the Web Query environment:

- ☐ Create top-level folders. See the Web Query manual for information on how to create new folders.
- ☐ Launch Security Center to add users and assign them to folder groups.

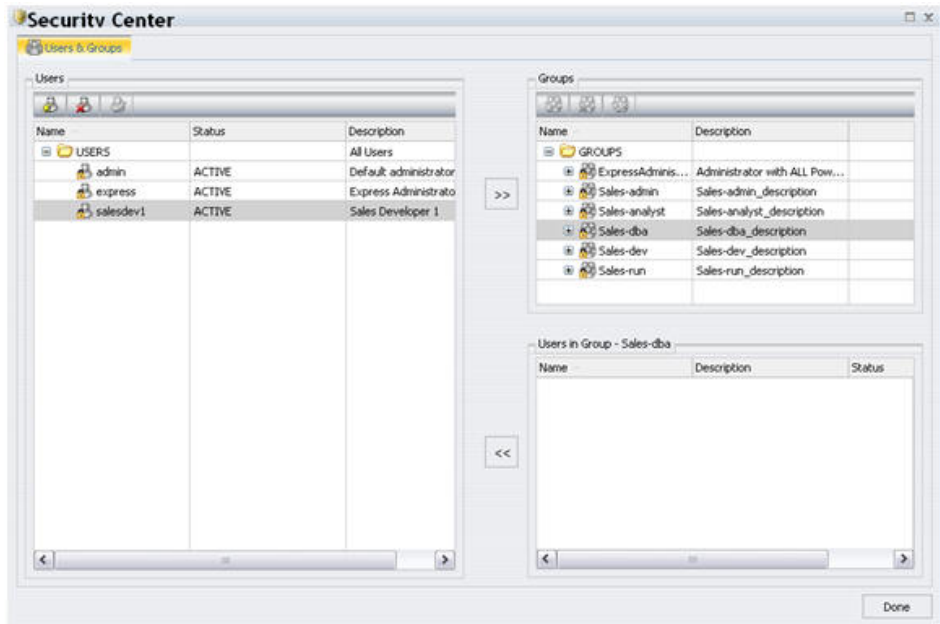
Procedure: How to Add a User to a Group

This example assumes a Sales top-level folder exists in the Web Query repository. The Web Query Administrator user ID or a user ID in the Sales-admin group can add users to one or more of the six folder groups for the Sales top-level folder.

1. Launch the Security Center.

2. In the Users panel, select the user(s) to add to the group.
3. In the Groups panel, select one or more groups that the user(s) will be added to.

In the following image, the user wqdev1 is being added to the Sales-dba group. This will make the user a DBA within the Sales application folder.

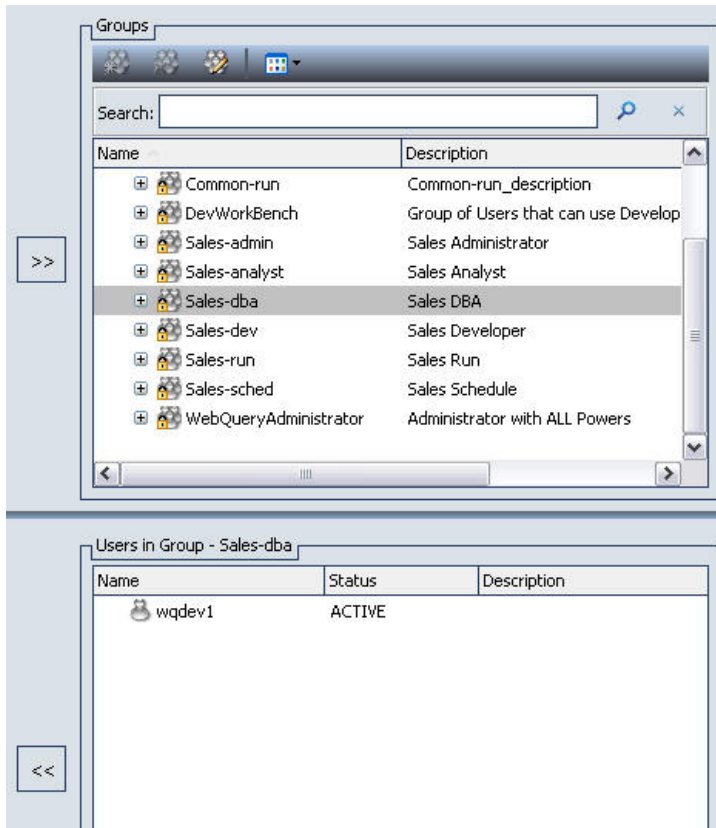


4. Click the *Add selected users to group*  button to add the user to the group.

Tip: You can also add users by dragging and dropping the selected users into a group.

5. Click *Done* or close the Security Center to exit.

The salesdev1 user is now in the Sales-dba group, as shown in the following image.



Adding an IBM i Group Profile to a Web Query Folder-run Group

Just like in Web Query Version 1.1.x, IBM i group profiles are assigned to authorize a user for the Web Query Runtime Enablement feature. This section will describe how to add an IBM i group profile to a folder-run group.

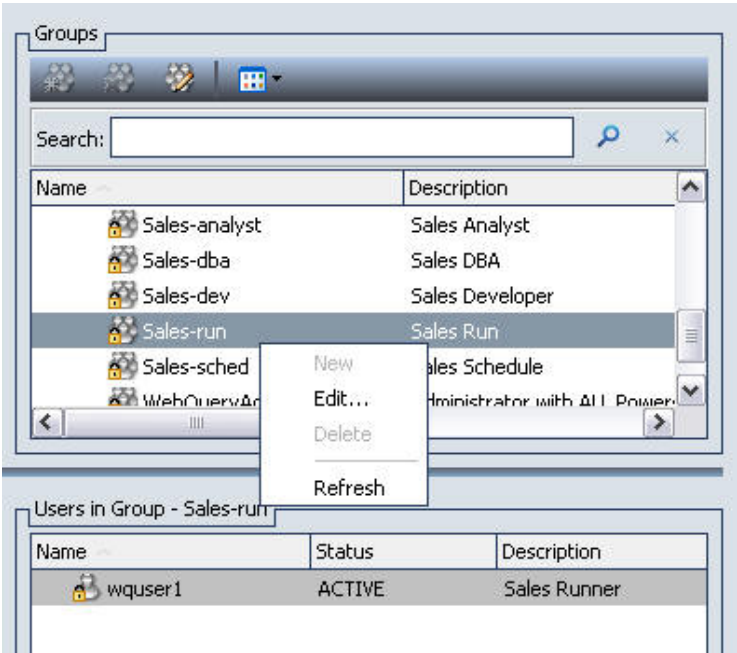
Note: The migration procedure performs this procedure for any group profiles that were assigned to users in Version 1.1.x.

Procedure: How to Assign an IBM i Group Profile to a Folder-run Group

This procedure assumes we have a Sales top-level folder and the objective is to assign the MUSALES group profile to the Sales-run group to allow users with this group profile to run reports in the Sales top-level folder.

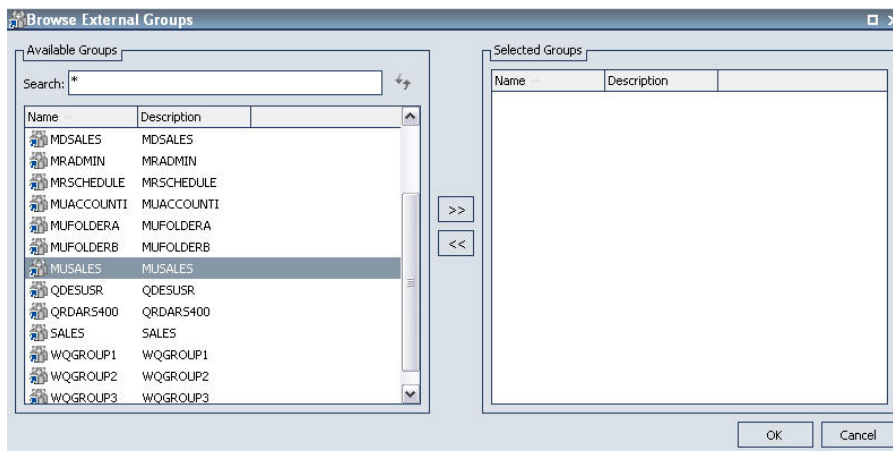
Note: Any existing group profile can be assigned to a Folder-run group role, the group profile does not have to be an MUxxxxx group profile.

- 1. Log on as a Web Query Administrator or folder administrator.
- 2. Launch the Security Center.
- 3. In the Groups panel, select the folder-run group that should be associated with the IBM i group profile.
- 4. Click the *Edit Group* button or right-click the folder-run group and select *Edit*, as shown in the following image,

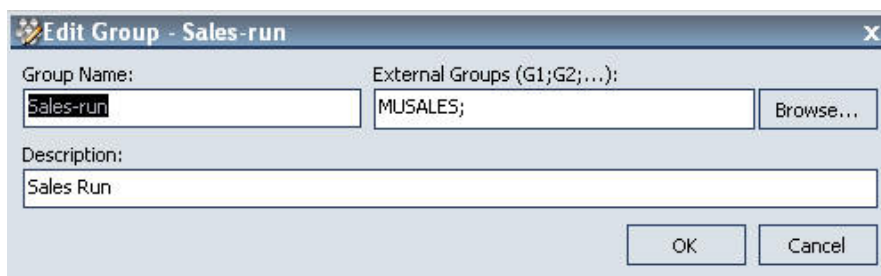


The Edit Group dialog box appears.

- Click the *Browse* button to retrieve a list of IBM i group profiles, as shown in the following image.



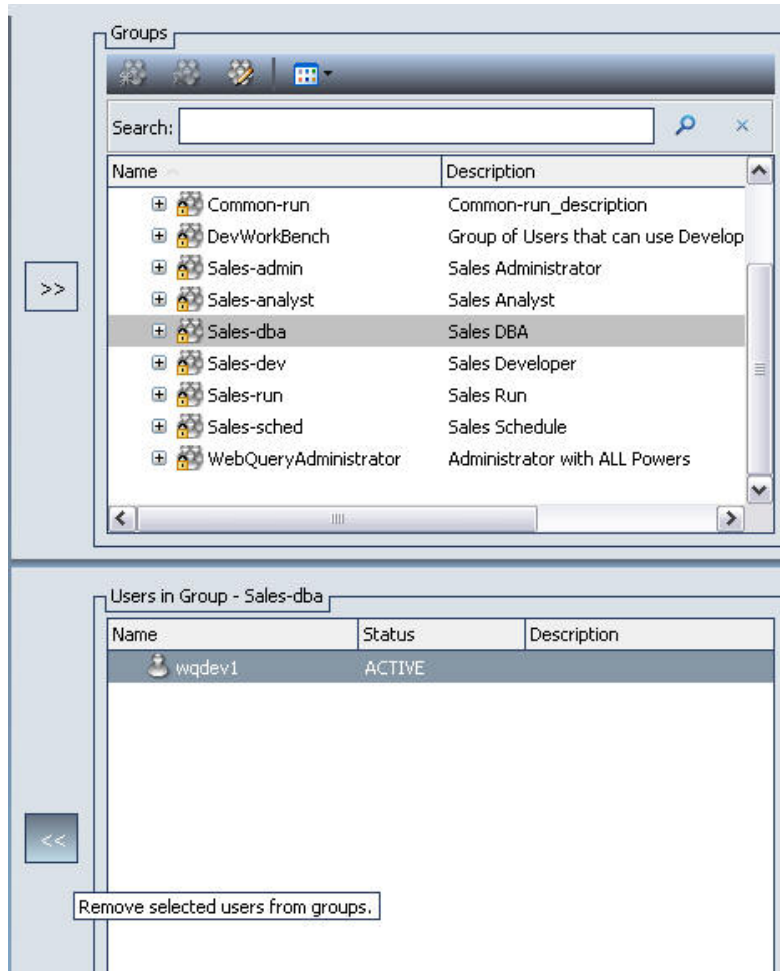
- Click the *Add all selected Groups* button to add the selected group profile to the Web Query folder-run group. In this example, the IBM i group profile MUSALES is being added to the Web Query Sales-run group.
- Notice a Group is now associated with the Web Query folder-run group, as shown in the following image.



- Click *OK*.
Notice the Sales-run group icon has changed to indicate a linkage to an IBM i group profile.
- Click *Close* to exit the Security Center.


Procedure: How to Remove a User From a Web Query Group

1. Launch the Security Center.
2. In the Groups panel, select the group that you want to modify. The members of the selected group are listed in the Users in Group panel, as shown in the following image.



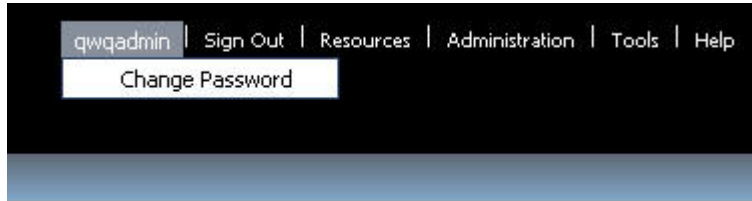
The reference to groups in this context do not refer to IBM i group profiles. In the preceding image, a user is being removed from the Sales-DBA role and not an IBM i group profile.

3. In the Users in Group panel, select the user or users that you want to remove from the group. You can choose multiple users by pressing the Ctrl key as you make your selections.

4. Click the *Remove selected users from groups*  button to remove the users from that group.
5. Click *Done* or close the Security Center to exit.

Procedure: How to Change a User Password

1. Click the user ID description on the menu bar and select *Change Password*.



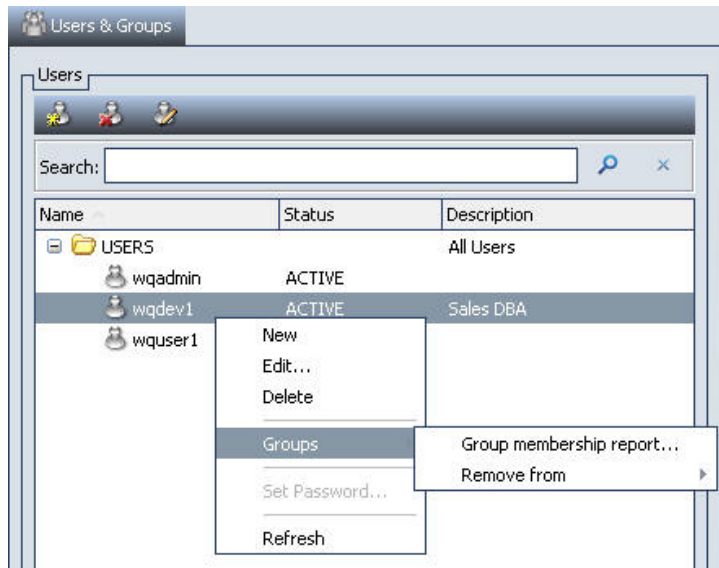
A dialog box will appear prompting you for old and new passwords.

Procedure: How to Manage a User and Their Attributes

If you are an Administrator:

1. Launch the Security Center.

2. In the Users panel, right-click the user and select any one of the following options, as shown in the following image.



New

Creates a new user.

Edit

Edits the user attributes.

Delete

Deletes the user.

Groups

Opens a submenu that contains the following options:

- ☐ **Group membership report.** Generates a report listing all the groups to which the user belongs.
- ☐ **Remove from.** Opens a dialog box to remove the user from one or more groups.

Migrating From Version 1.1.x

Version 2.1 introduces a number of new concepts and terms that are documented in the New Features manual. It is important that you read this document very carefully.

Users, group profiles, and content can be migrated from Web Query Version 1.1.x 5733QU2 to Version 2.1 5733WQX.

Note: The installation exit migrates both profile licenses and metadata during the product installation. When the base product is installed, the metadata is copied to the new directory structure. When option 4, Developer Users, is installed, the named user licenses are migrated from QU2 to option 4. When option 6 is installed, Runtime Groups, then licensed group profiles are migrated from QU2 to option 6.

Migrating Web Query Content

In Web Query Version 2.1, the term Domain is no longer used. The new terminology is a top-level folder. Domains will map directly to a top-level folder. Domain folders map to subfolders. Procedures, HTML files, bitmaps, and stylesheets are still relative terms. The following table maps Version 1.1.x objects to Version 2.1 objects.

Version 1.1.x	Version 2.1 Object
Domain	Top-Level folder
Domain folders	Subfolders

With Version 2.1, the best practice for users is to use the new top-level folder and app folder association as opposed to using the baseapp approach. Using this best practice, an app folder with the same name as a newly created top-level folder will be created and linked to that top-level folder. Creating and managing metadata in the linked app folder is the best practice.

Migrating Web Query Users and Group Profile License Information

Web Query Version 2.1 introduces a new security model. A key component of this security is the Group, which is best described as a set of operations that formulate a role. The following table maps Version 1.1.x authorizations to the new Groups defined in Version 2.1.

Version 1.1.x Profiles	Version 2.1 Groups
MUdomain profile	Folder-run
MDdomain profile	Folder-dev, Folder-dba
MRADMIN	WebQueryAdministrator

Version 1.1.x Profiles	Version 2.1 Groups
MRSCHEDULE	Folder-sched

A shell script has been provided with this version to allow a customer to migrate Web Query Version 1.1.x content to Version 2.1. The content includes Domains, Reports, HTML files, Stylesheets, and images. Report Broker content can be migrated as well. This includes schedules and distribution lists.

Business Intelligence Portal

The Business Intelligence Portal (BI Portal) is new in Web Query Version 2.1 and is the driving force behind the new user interface. It is the successor to the Business Intelligence Dashboard (BI Dashboard). It does everything that BI Dashboard does, and more.

The BI Portal is about being able to build complete, modern Web sites. The end user experiences the drag-and-drop features that are available in popular online portals. This is a key point, as end users do not need to learn anything new. This results in no training and a high usage rate.

Web Query Client Repository and Authorization Security Enhancements

The Web Query Client repository and authorization security model expands and generalizes the access to Managed Reporting (MR) and Business Intelligence assets.

Web Query Client Repository and Authorization Security Enhancements

The highlights of the Web Query Client repository and authorization security model include:

- ❑ Relational database storage for all content.
- ❑ Improved integration with Report Broker.
- ❑ Component integration (single sign-on).

Note: Web Query does not support a full single sign-on environment from an end user perspective.

- ❑ Granular user capabilities to satisfy any authorization requirement.

The system uses the Universal Object Access (UOA) layer, an implementation of Role-Based Access Control (RBAC), to enforce security across all objects in the repository. The flexibility of the UOA model enables an administrator to implement security at a granular level for every object in the Web Query Repository, if needed. User actions can be permitted or not permitted for individual combinations of users and objects. Access can be granted or specifically denied on a group or individual level, and it can be inherited down from a root folder that contains several types of objects.

InfoAssist Enhancements

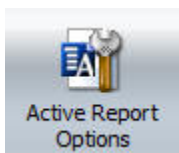
InfoAssist is a powerful report generation tool that enables business users to leverage state of the art ad hoc functionality. With InfoAssist, you can generate highly complex reports, charts, and documents from any enterprise information source without IT intervention. You can also analyze multiple reports and charts simultaneously and output report data in a variety of formats.

Restarting Page Numbering After a Page Break

To start a new page in your report when the primary sort field changes, you can use the Page Break button in the Break group. To reset the page numbers on a page break to start at 1, you can click the drop-down arrow and select *Reset Page Numbers*.

Active Technologies Report Styling Options

You can configure your active report options, such as menu items, graph engine, and colors. The active report options button opens the active report options dialog box. It is only available when the output type is set to active report, active Flash, or active PDF. This button is shown in the following image.



Default Currency Symbol

You can change the default currency symbol for reports. The Style button in the Report group provides access to report level styling, where you can change the currency symbol. To select the default currency symbol, click the Currency icon .

Relative Positioning

When two objects are selected, the Relative Position button aligns the bottom-left corner of the component that is higher on the page next to the top-left corner of the one that is lower. Once a relationship is created, arrows appear to show that relationship while both items are still selected. The Relative Position button, located in the Size and Arrange group under the Layout tab, is only available in Document view.

Field to Field Conditional Styling and Drilldowns

You can add new conditional styling or modify existing conditional styling by applying traffic light colors to a selected field in the output when the field meets specific criteria. You can also create drilldowns for conditions. The Traffic Lights button, in the Display group under the Field tab, opens the Traffic Light Condition dialog box.

HTML5 Output Format

The HTML5 output format allows you to render a chart in the browser using a built-in JavaScript™ engine. This output format is only available for charts. Charts with this output format utilize the latest capabilities of the HTML5 Web standard, including animation, high-quality vector output, and attractive alpha-channel and gradient effects. The HTML5 button is shown in the following image.



Multiple Axis Assignment

Bar, Line, and Area chart types can have multiple axis charts, such as dual-axis charts and multi-y charts, meaning that you can compare one X-axis value with up to five Y-axis measures. InfoAssist allows you to assign each individual series to the Y1 axis and Y2 axis for dual-axis charts.

File Menu

You can use the File menu to create an image file from a chart. In order to create the image file, you will need to execute the procedure. When you select the File menu, or if you choose *Select a location and format* from the File drop-down menu, you will be able to name the file and select the output type. The available output types are PNG, GIF, SVG, and JPEG. Once you select the File menu, the output type selection is disabled. If you do wish to disable the File menu, click the File menu again.

When you select Chart from the Format group, the File menu is available from either the Format group under the Home tab, or the Destination group under the Format tab, as shown in the following image.

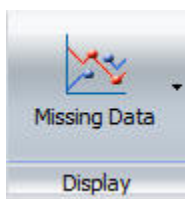


Output Formats

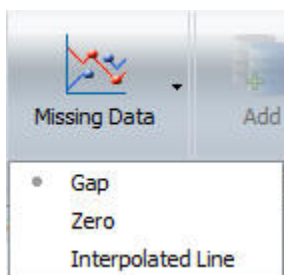
There are additional output formats available in InfoAssist that are only available for charts. These output formats include PNG, GIF, JPEG, SVG, and PDF/GIF. These output types do not appear by default. You can enable them by opening the Web Query Administration Console and selecting *Utilities* and then *InfoAssist Properties*.

Missing Data

The Missing Data menu enables you to control the display of missing data values. It is only available for charts. The Display group, under the Data tab, provides access to the Missing Data menu, as shown in the following image.



When you select the Missing Data button, a drop-down menu appears, as shown in the following image.



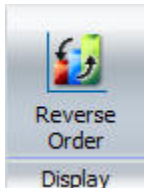
When you select *Gap* and you are using a bar or area graph, the bar appears on the zero line. When using line graphs, a solid line connects the missing value with the succeeding value.

When you select *Zero* and you are using a bar, line, or area graph, missing values will appear as a gap in the graph.

When you select *Interpolated Line* and you are using a line graph, missing values will appear as an interpolated dotted line that connects the plot points preceding and succeeding the missing value. When using bar or area graphs, missing values will display as an interpolated bar or area chart.

Reversing the Order of a Series

When All Series is selected in the Select group, the Reverse Order button allows you to reverse the order of the entire series of your chart. The Display group, under the Series tab, provides access to the Reverse Order button and is available for all chart types. The Reverse Order button is shown in the following image.



Advanced Chart Dialog Boxes

Multiple advanced dialog boxes have been added to customize and style charts. These dialog boxes can be found under the Legend, Grid Line, Axes, Gauge, Frame and Background, Data Labels, and Series options. To access the dialog boxes, either select the drop-down arrow from the Ribbon and select *More Options*, or right-click the option in the Results panel and select *More Options*.

Custom Chart Size and AutoFit

The AutoFit button allows you to make chart size dynamic. This means that other applications can override the size of the chart when the chart is embedded. The AutoFit button, in the Size and Arrange group, is only available for charts.

Metadata Management Enhancements

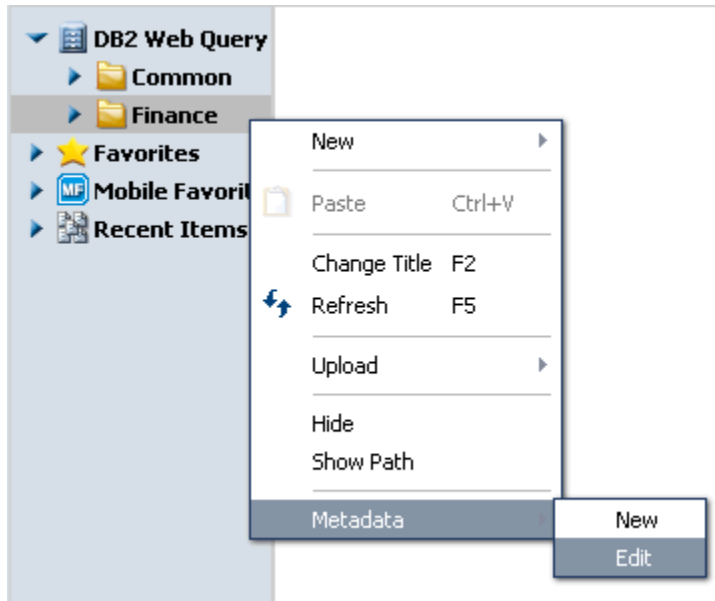
This section describes new features for metadata management. A browser-based version of the Synonym Editor is now available in Version 2.1. This represents a subset of the functionality available in the Developer Workbench Synonym Editor.

Editing a Synonym

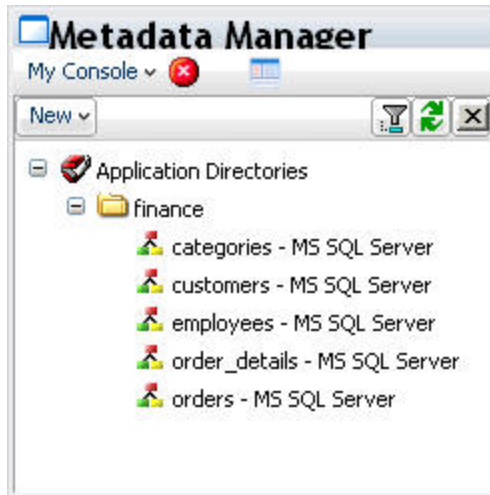
This topic explains how to edit a synonym using metadata management.

Procedure: How to Edit a Synonym

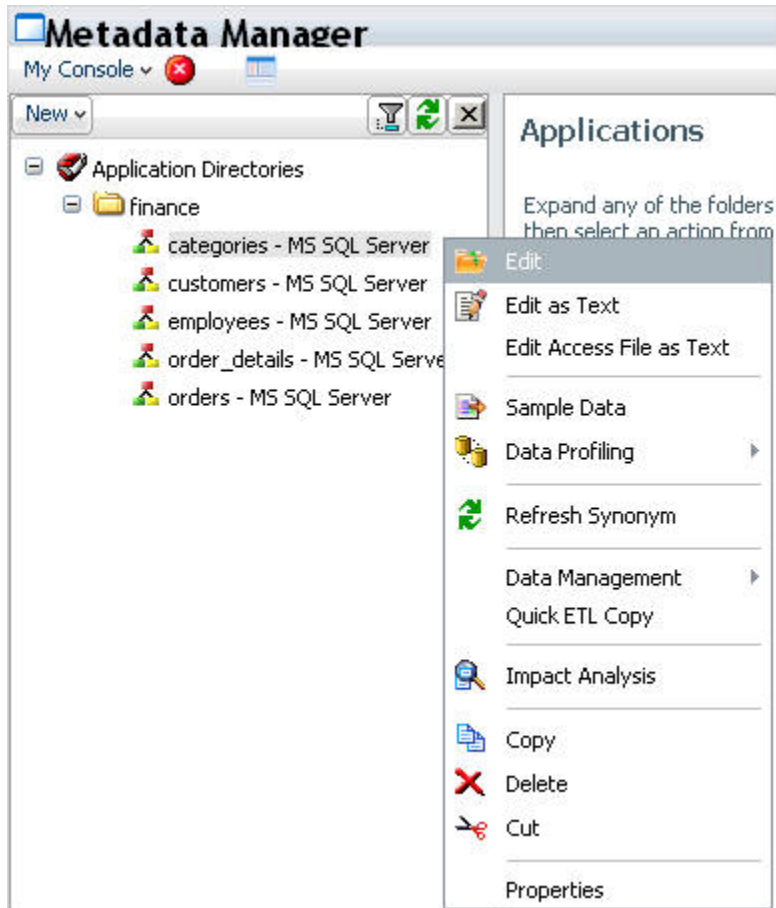
1. To access the Synonym Editor, right-click a folder, select *Metadata*, then select *Edit*, as shown in the following image.



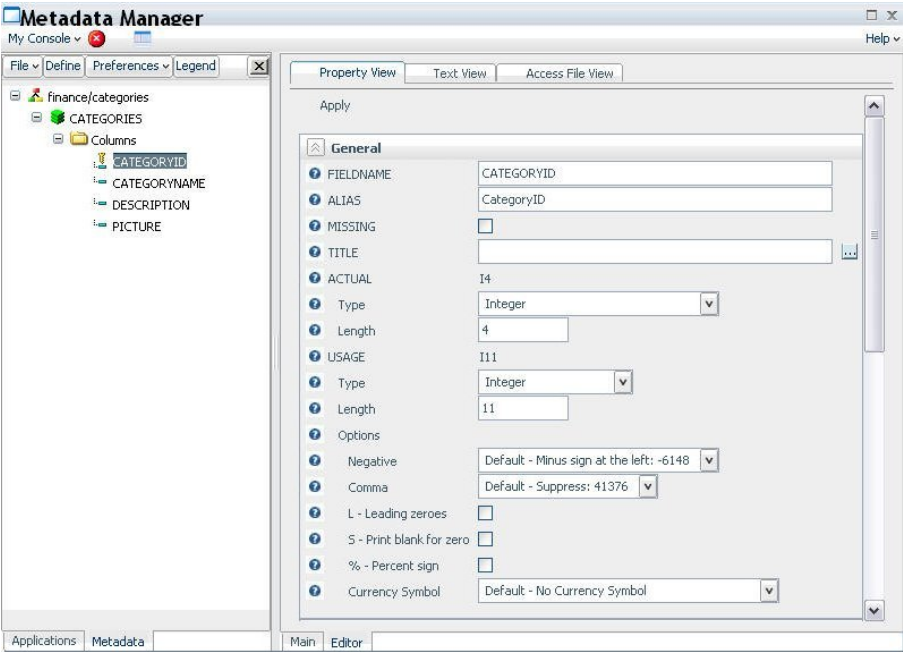
A list of synonyms associated with the folder appears in the Metadata Manager window, as shown in the following image.



2. Right-click a synonym and select *Edit*, as shown in the following image.



The Synonym Editor, as shown in the following image, is a graphical tool that allows you to edit the synonym to include virtual fields that you may want to define at the metadata level, rather than force each user to define it at the report level.



Developer Workbench Enhancements

This section describes new features for Developer Workbench.

Developer Workbench provides intuitive GUI tools that enable you to concentrate on interface design, business logic, and data manipulation. Using Developer Workbench, you can build powerful Web page interfaces that allow users to create and view reports.

Display Application Name in Master File Dialogs

Master File dialog boxes accessed from Developer Workbench and BI Portal tools are enhanced to display the Reporting Server application directory name in addition to Description and Title. This enhancement allows developers to identify the location where the Master File resides and allows the Master File list to be sorted by the available columns.

Master Files are retrieved based on the application path set on the Reporting Server global, group, or user profile, or on the application path that may be set at a folder or file level for the Web Query Client Repository. In a case where a Master File with the same name is available in more than one application, the search path will retrieve and display the first instance found.

Stop Running Requests

An option has been added to the Developer Workbench main toolbar to allow users to stop running requests. Users can stop running requests from multiple Web Query Environments that are configured in Developer Workbench. A dialog box displays the environments where a user has made a connection when clicking the *Cancel running objects* button. The last environment used to run a job is selected by default.

Users can select to stop running jobs from additional environments as well. Information in the dialog will display with the status of the stop request. When multiple jobs are submitted for processing, they are queued on the Reporting Server and only active jobs for the user will be stopped.

HTML Composer Enhancements

This section describes new features for HTML Composer in Developer Workbench.

HTML Composer enables you to graphically create an HTML page that incorporates forms, reports, graphs, and Web objects.

Date Formats for Calendar Options

You can display the format of a date differently by selecting one of the available formats from the *Date format in data source* drop-down list in the calendar controls Property and settings dialog box. Several new formats have been added to this version.

InfoWindow Action

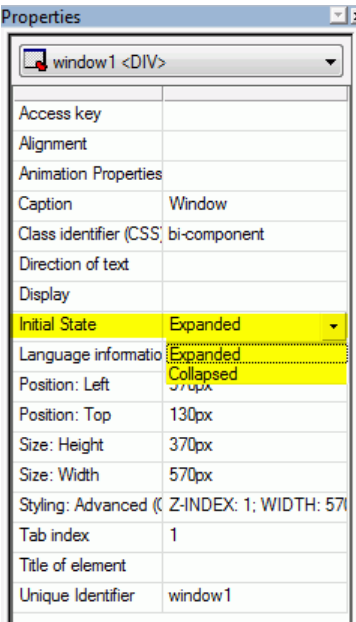
The InfoWindow Action has been added to the Target Type drop-down of the Hyperlink properties. The InfoWindow Target Type will execute the action in the Web Query generated InfoWindow.

Initial State of a RIA Window

You can choose whether a RIA window component starts expanded or collapsed by using the Initial State property, located in the Properties window. The two options are Expanded and Collapsed.

- ☐ Expanded sets the window to be expanded at run time and is set by default.
- ☐ Collapsed sets the window to be collapsed at run time.

The following image shows the Initial State property on the Properties window.



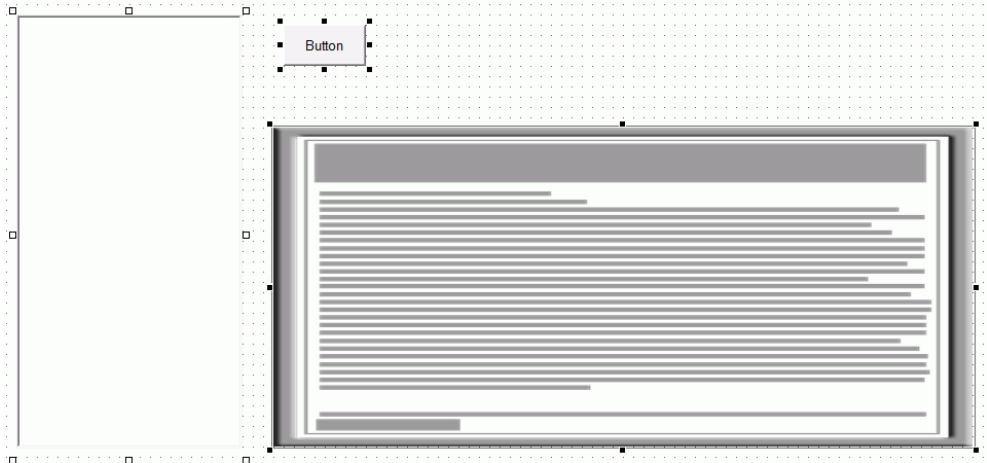
Populate Control With Procedure Names

You can select the Values are procedures names option from the Properties and settings dialog box when Static is selected as the Data type.

This enables a control to be populated with procedure names, so that when a value is selected, that procedure executes. The Value column is the procedure name itself and cannot be edited. The Display column can be edited.

Procedure: How to Use Procedure Names as Values

1. Create an HTML page that contains a listbox, a push button, and a report, as shown in the following image.



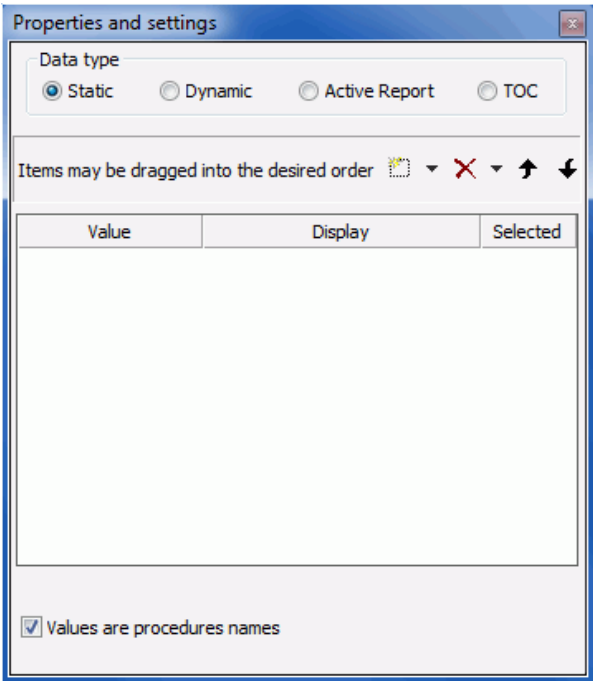
Note: In this procedure a listbox is used, however, the following controls are also able to use the Values are procedures names option: double list, drop-down, radio button, and check box.

2. Select the listbox to bring up the Properties and settings dialog box.

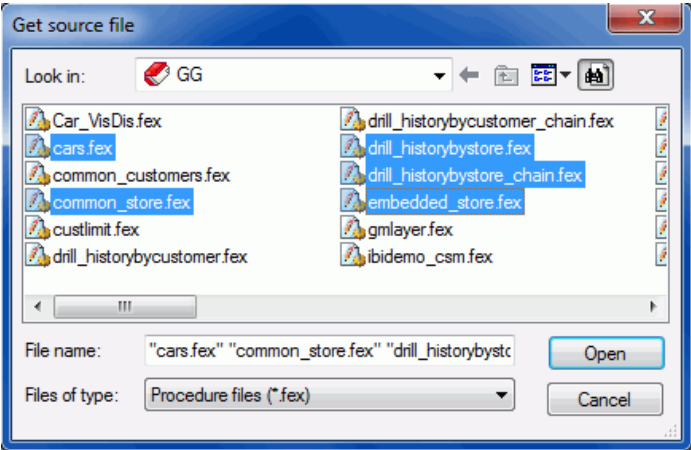
Note: If the Properties and settings dialog box does not open, select *View* and click *Properties and settings*.

3. Select *Static* as the Data type.

- 4. At the bottom of the Properties and settings dialog box, select *Values are procedures names*, as shown in the following image.



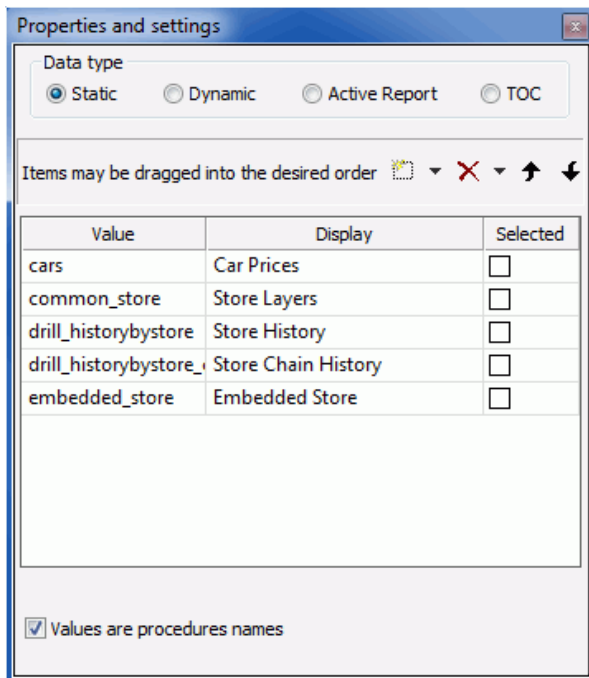
- 5. Click the *New* button and select procedures from your directory, as shown in the following image.



Note: You can add multiple procedure names to the Properties and settings dialog box by multi-selecting procedures while in the Get source file dialog box.

6. Once the procedures have been added to the Properties and settings dialog box, edit the display names of the procedure values by double-clicking the display contents, if they are not highlighted already.

The following image shows the procedure values with new display names.



7. Right-click the button you created and click *Create Hyperlink*.
The Hyperlink Properties dialog box opens.
8. Create a hyperlink that opens a selected procedure from a control in the report frame created earlier.
 - a. For the Action, select *Procedures from control* from the drop-down list.
This option coincides with the Values are procedures names option found in the Properties and settings dialog box. This option will point to an entire procedure for the hyperlink, rather than a simple value. This option is only available when a control on the HTML page is using the Values are procedures names option.

- b.** Select *listbox1* as the Source.

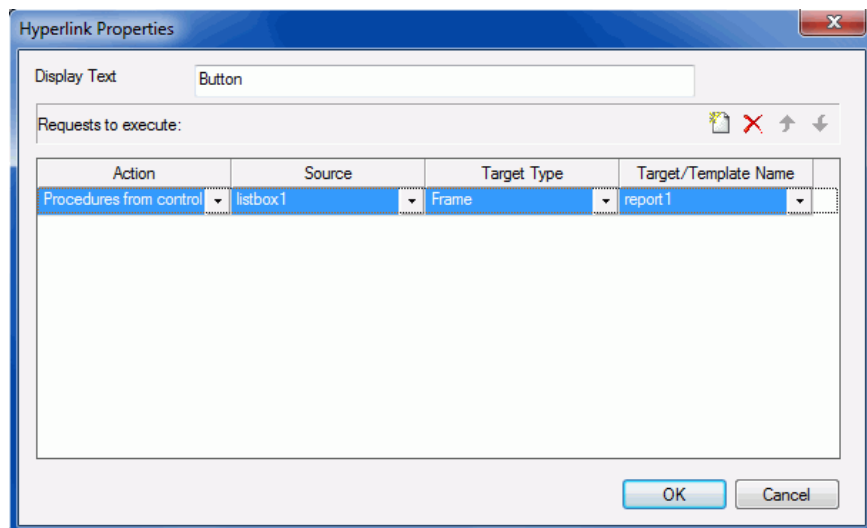
The source can be different if you use a different control. For example, *combobox1*, *customselect1*, *radio1*, or *checkbox1*.

- c.** Select *Frame* as the Target Type.

You could also select *New Window* as the target if you wanted the procedure to open in a new window.

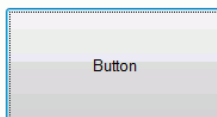
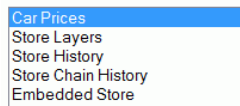
- d.** Select *report1* as the Target/Template Name.

The created hyperlink is shown in the following image.



9. Run the page.
10. Select the procedure from the listbox and click the button.

The report is run, as shown in the following image.



CAR	MODEL	RETAIL_COST
ALFA ROMEO	2000 4 DOOR BERLINA	5,925
	2000 GT VELOCE	6,820
	2000 SPIDER VELOCE	6,820
AUDI	100 LS 2 DOOR AUTO	5,970
BMW	2002 2 DOOR	5,940
	2002 2 DOOR AUTO	6,355
	3.0 SI 4 DOOR	13,752
	3.0 SI 4 DOOR AUTO	14,123
	530i 4 DOOR	9,097
	530i 4 DOOR AUTO	9,495
DATSUN	B210 2 DOOR AUTO	3,139
JAGUAR	V12XKE AUTO	8,878
	XJ12L AUTO	13,491
JENSEN	INTERCEPTOR III	17,850
MASERATI	DORA 2 DOOR	31,500

Report Broker Enhancements

This section describes the new features for Report Broker.

Report Broker is a scheduling and distribution application that centralizes the execution and distribution of Web Query reports, the contents of URLs, and files. Report Broker supports multiple administrators and provides a single point of control for managing information distribution within an organization.

Integration with Web Query Client Security

Report Broker is fully integrated with the Web Query Client security authorization implementation. Users, groups, schedules, distribution lists, and access lists are stored in the Web Query Repository. Administration of group or user authorization to access Report Broker tools is controlled by the Web Query Client security authorization.

Ability to Designate a Group Administrator

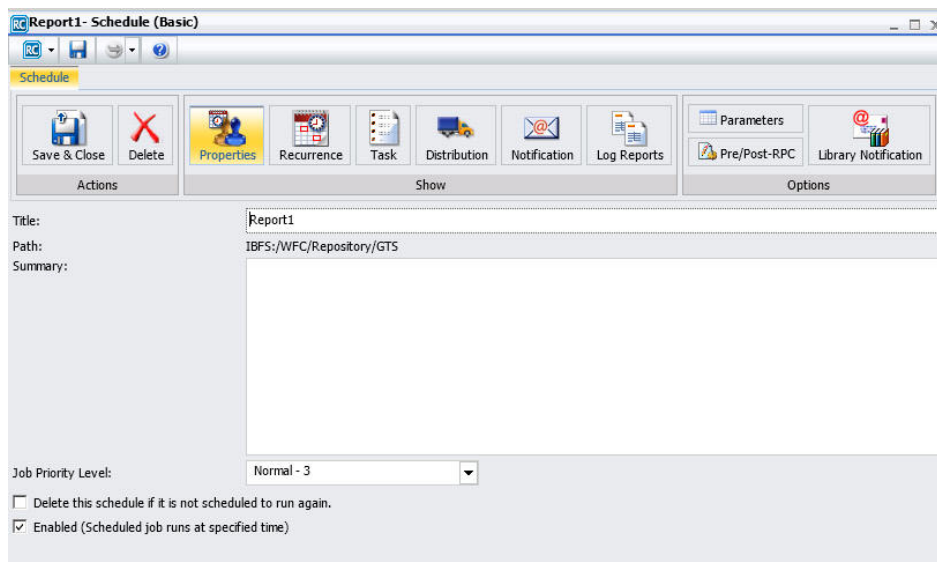
A user can be given the ability to manage the private Schedules, Distribution Lists, and Access Lists of other users.

Sharing of Schedules, Distribution Lists, and Access Lists

Users can share Schedules, Distribution Lists, and Access Lists with other users.

Access to Report Broker Items From Repository Tree

Report Broker items (schedules and distribution lists) are accessible from the Web Query Repository tree which provides a single interface point of access to Report Broker tools. Report Broker tools have been implemented with a Rich Internet Application interface for ease of use and consistency with the InfoAssist reporting tool, as shown in the following image.



Burst Support for Excel 2007 and 2010 Workbooks (XLSX)

The *Burst Report* option is supported for EXL07 - Excel 2007 (*.xlsx) format. The burst feature enables you to instruct the Reporting Server to create the report in sections so that the sections can be distributed separately to different recipients or locations.

Web Browser Support

Microsoft® Internet Explorer® Version 9 (32-bit) and Version 8 are certified with Web Query Version 2.1. Firefox® Version 3.6.x, Version 8, and Version 10 are supported.