



# **IBM Db2 Web Query for i New Features**

Release 2.3.0



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This documentation describes prerequisites, known issues, web browser support, and mobile support for the July 2023 - 2.3 HF9 release.

**Note:** The July 2023 HF9 release is a maintenance release only. No new features were introduced in this hotfix.

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:

- ☐ [Prerequisites](#)
  - ☐ [Known Issues](#)
  - ☐ [Browser Information](#)
- 

## Prerequisites

The following topic describes prerequisites for Db2 Web Query 2.3 HF9.

- ☐ Db2 Web Query 2.3.0 is supported on IBM i 7.3, 7.4, and 7.5.
- ☐ For 2.3.0, Windows 10 is required for the Windows client interfaces.
- ☐ The 5770JV1 option 17 - Java SE 8 64-bit Java option must be installed.
- ☐ On IBM i 7.3, one or both of the following PTFs must be applied:
  - ☐ 5770JV1 PTFs SI62011 and SI61994
  - ☐ Java group PTF SF99725 level 3 or higher
- ☐ For the OS level, the 5770DG1 group PTF must be applied at the specified minimum level or higher:
  - ☐ 7.5 - SF99952 level 06
  - ☐ 7.4 - SF99662 level 26
  - ☐ 7.3 - SF99722 level 43

You can find this information in the following link, under the *Remediation/Fixes* section:

[\*Security Bulletin: IBM Db2 Web Query for i is vulnerable to attacker obtaining sensitive information due to Java string processing in IBM Toolbox for Java \(CVE-2022-43928\)\*](#)

## Known Issues

The following topics describe known issues in Db2 Web Query.

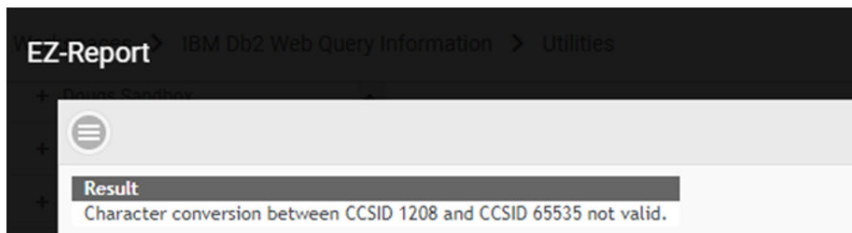
### Multi-Task Schedules

Opening a multi-task schedule in the MR interface (browser) silently removes the additional tasks, without notifying the user, when the Save or Save As option is used.

**Workaround:** The Save and Save As options from Developer Workbench do not have this issue when editing a multi-task schedule.

### EZ-Report

The EZ-Report utility fails on IBM i releases 7.4 and 7.5 with a 'Character conversion between CCSID 1208 and CCSID 65535 not valid' message, as shown in the following image.

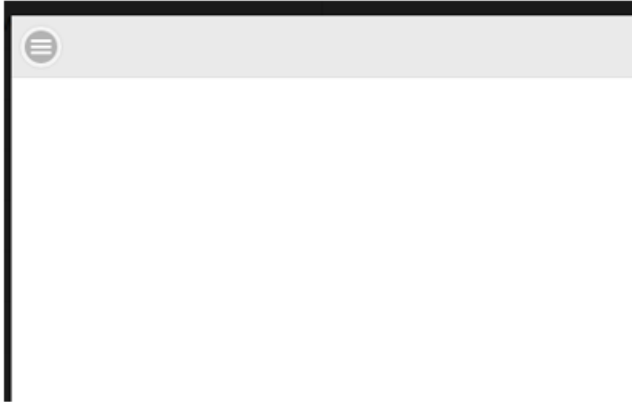


To resolve the problem, apply the following 5770SS1 PTF for your IBM i release level:

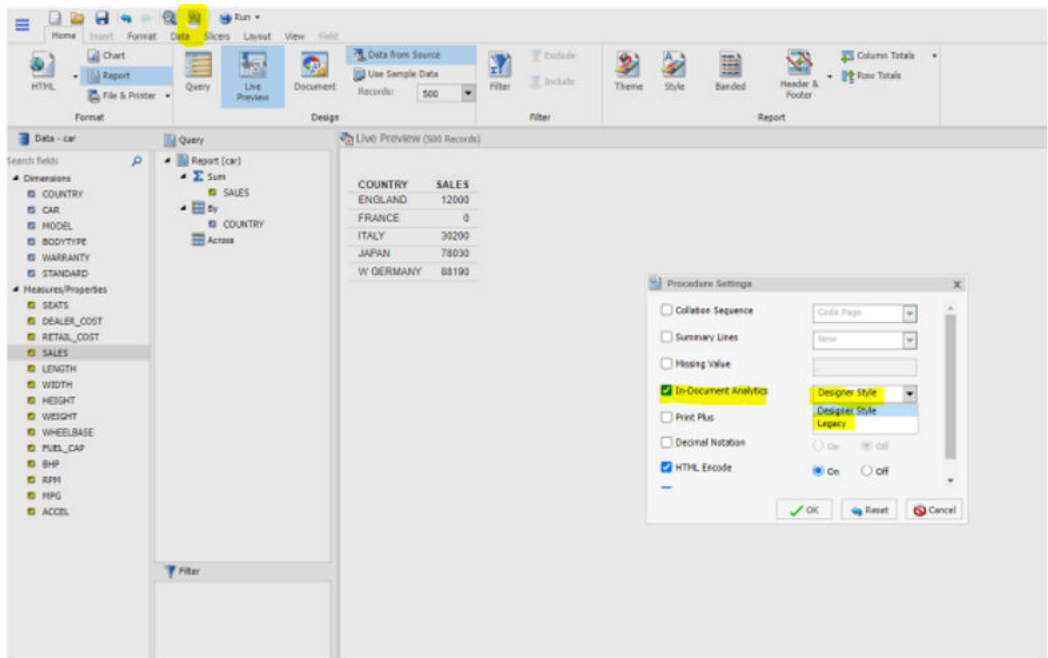
- ☐ IBM i 7.5 - PTF SI80256
- ☐ IBM i 7.4 - PTF SI80105

## Active Reports

When running an active report, the report may appear to load, and then show up blank, as shown in the following image.



This occurs when a combination of Analytic Document options are enabled, the Advanced Tools option is not enabled, and the Legacy View for In-Document Analytics option is selected in the Procedure Settings dialog box, as shown in the following image.



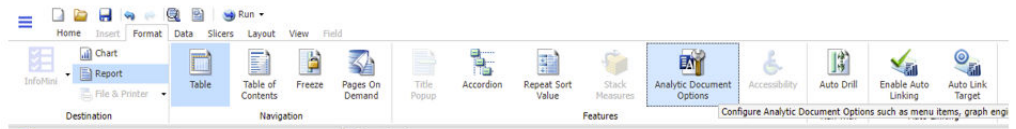
To verify the cause of the blank report, open the Developer Tools in the browser and navigate to the Console tab.

If you see the error *Uncaught Reference Error: ibiChart is not defined*, as shown in the following image, implement the described workaround.

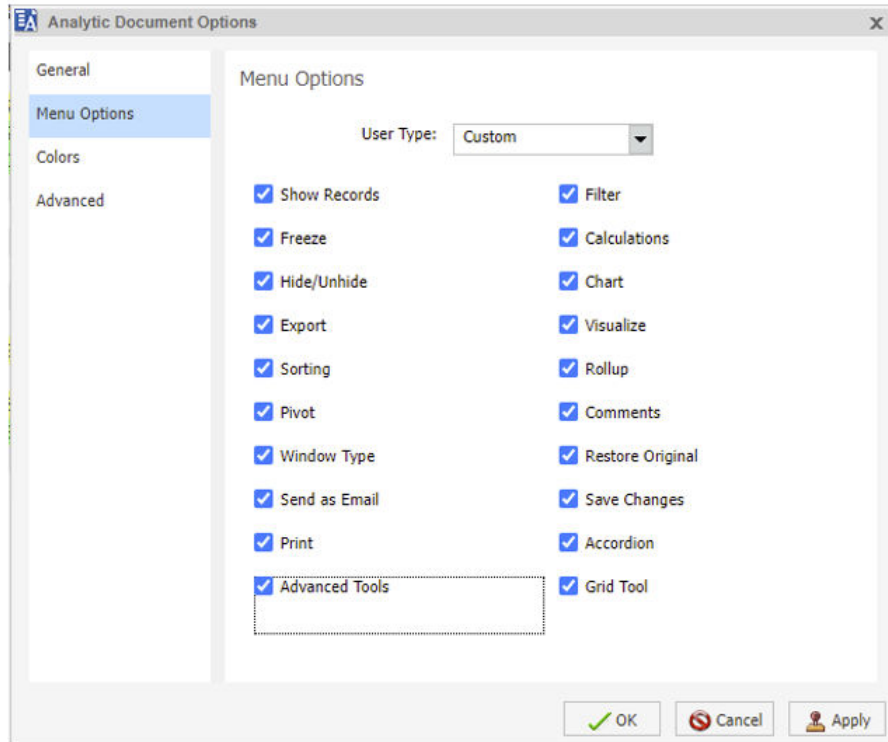


### Workaround

1. Edit the report in InfoAssist.
2. Select the *Format* tab and then click *Analytical Document Options*, as shown in the following image.



3. Select *Menu Options* and then select *Advanced Tools*, as shown in the following image.



4. Click *OK* and save the report.

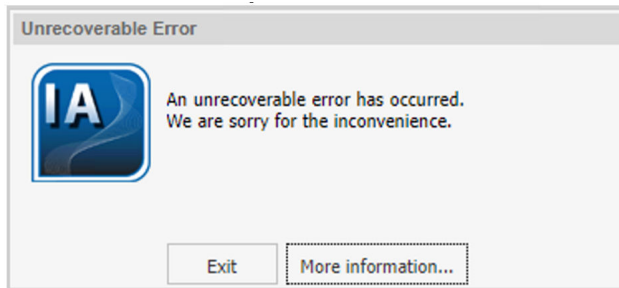
## Developer Workbench

This section addresses the known issues for Developer Workbench.

- ❑ New SQL reports created with the SQL Report Wizard in Developer Workbench will fail to run with the following error:

**(FOC205) THE DESCRIPTION CANNOT BE FOUND FOR FILE NAMED: FOCCACHE/SQLOUT**

New and existing SQL reports created with the SQL Report Wizard cannot be edited in Developer Workbench and will fail with the following error:



**Note:** Existing, unedited SQL reports will continue to run.

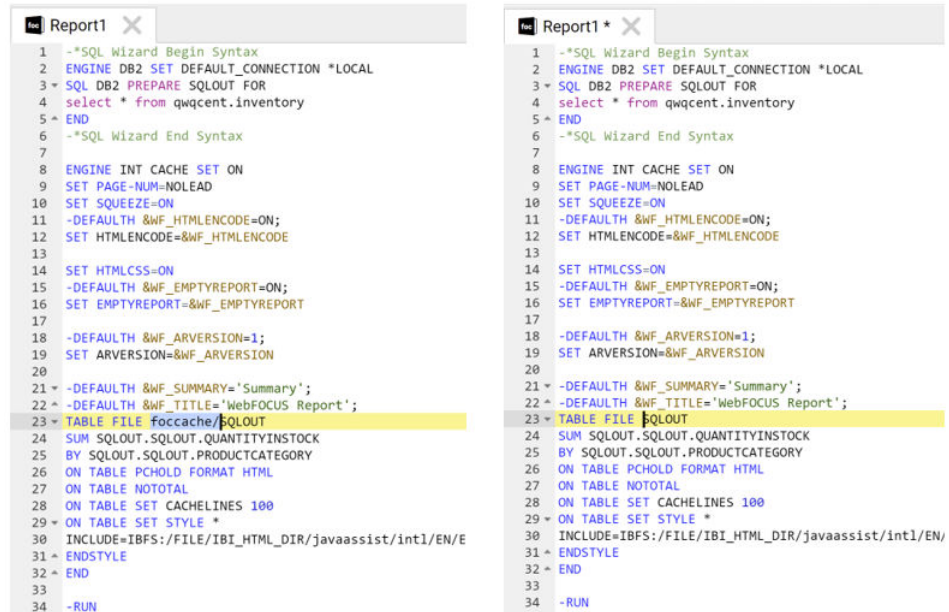
### Workarounds:

- ❑ Alternative and more strategic methods for auto generating a synonym and report over an SQL statement or procedure can be found in the following white paper:

<http://ibm.biz/db2wq-sql-usage-whitepaper>

- ❑ A Web Query administrator can text edit the report from the Web Query home page and remove *foccache/* from the *TABLE FILE foccache/SQLOUT* line, so that the resulting line is instead *TABLE FILE SQLOUT*.

The following image shows an example SQL report before and after the change.



- ❑ Web Query developers in folder-dba groups cannot create or edit synonyms from the Developer Workbench tree.

**Workaround:** Use the Data Management Console in Developer Workbench or use the Reporting Server Console from the browser.

## Db2 Web Query Designer

This following is a known issue for Db2 Web Query Designer.

- ❑ Db2 Web Query Designer does not yet support running a chart with an output format that embeds graphics, such as PDF and Excel. When creating charts with embedded graphics formats, you can use InfoAssist, available from the Home Page.

## REST-Based Application Extension (WQRAX)

This section addresses the known issues for the REST-Based Application Extension (WQRAX).

- ❑ Certain types of reports, including visualizations which utilize some maps, will not render properly when invoked through 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.

**Workaround:** Either edit and save the HTML file in the Developer Workbench HTML canvas, which will make the changes automatically, or edit and save the HTML dashboard 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

- ❑ The Upload Wizard fails in BI portal (Legacy mode).
- ❑ 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.

- ❑ 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 Metadata Wizard fails in BI portal (Legacy mode).
- ❑ 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

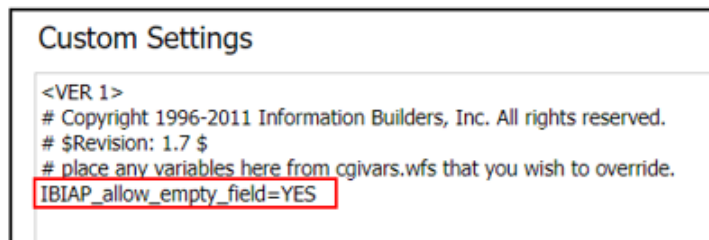
This section addresses the known issues for InfoAssist.

- ❑ The 2014 Demographic layers do not render on an ESRI map.
- ❑ At run time, a report will fail if empty filter values are entered for simple parameter prompts. To resolve the issue, the Web Query administrator can configure a setting to allow empty values, as follows.

1. In the Administration Console, on the *Configuration* tab, click *Custom Settings*.
2. To permit the use of empty fields in filter prompts, type the command:

```
IBIAP_allow_empty_field=YES
```

Type it under the final comment statement at the top of the Custom Settings text box or under the most recent custom setting entry, as shown in the following image.



3. To store the settings in an encrypted format, select the *Encrypt* check box.
4. When your configuration is complete, click *Save*.
5. When you receive a confirmation message, click *OK*.
6. When the Custom Setting page clears, click *Custom Settings* under the Application Settings folder to see your updated comments, settings, or commands in the Custom Settings text box.

7. If you later decide to prohibit the use of empty fields, change the command to:

```
IBIAP_allow_empty_field=NO
```

Alternatively, you can delete the following command from the Custom Settings page or convert it to a comment if you plan to reactivate this feature.

```
IBIAP_allow_empty_field=YES
```

8. When your configuration is complete, click Save.

- ☐ If you run a request with output to a Db2 file, and you see the following error message, `(FOC36219) AN ERROR OCCURRED WHEN OPENING FILE: HOLD MASTER`, then open the report in InfoAssist and re-save it. This removes the internal directive to save the metadata to an explicit location, as it is not needed in this context.
- ☐ The German translation of the visualization filter box for BLANK does not match the run-time option.

## JD Edwards Adapters

This section addresses the known issue 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 issue 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.

## Spreadsheet Client

This section addresses the known issue for Spreadsheet Client.

- ❑ The data source is not correct when creating a report using metadata that is under the user's top-level folder. By default, Spreadsheet Client shows metadata in the baseapp folder.
- ❑ HTML report data is not written into Excel.
- ❑ Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.

## National Language Support

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

- ❑ When the Reporting Server runs in CCSID 285, HTML dashboards fail with JavaScript errors if running in a Firefox or Internet Explorer browser. This is caused by an encoding problem in the IBM Websphere Application Server plugin. To resolve the problem, apply the following PTF for your release level of product 5770DG1:
  - ❑ 7.3: SI69363
- ❑ Some of the Retail Sample reports will not run in NLS or DBCS languages. This issue will be resolved in an upcoming PTF.

### 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. To create Query/400 synonyms, right-click a folder and select the *Metadata New* option.
- ❑ Creating a synonym for a Query/400 file fails when it is launched from a subfolder.

### Browser Information

The following topics describe information for the available web and mobile browsers for Web Query 2.3.

### Web Browsers

The following browsers are certified for Web Query and Developer Workbench.

- ❑ Microsoft Edge™ 102
- ❑ Google Chrome™ 102
- ❑ Mozilla Firefox® 100

### Release 2.3 Notes

- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Chart/Graph request notes:
  - ❑ *Browser-generated graphs* refer to graphs that are rendered inside the browser using HTML5 (and JavaScript). Browser-generated graphs are utilized in both standard HTML5 output ("FORMAT JSCHART"), and in Active Technologies ("FORMAT AHTML").

- ❑ *Server-generated graphs* refer to 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
- ❑ 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 when distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are base64 encoded within the generated .htm file.
- ❑ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the browser's configuration information on how to change the Application Options settings for the relevant content types so that the browser will automatically use Adobe Reader.
- ❑ Adobe Reader support:
  - ❑ Acrobat Reader DC is certified
  - ❑ Adobe XI is supported
  - ❑ Adobe X is supported
- ❑ If you are using Internet Explorer® 11 on a Windows® 2012 R2 OS and you attempt to run an object (such as a report or chart in InfoAssist), Internet Explorer 11 opens it in a new window instead of targeting the object to a specific frame. For example, in InfoAssist, the New Window Runtime opens a new browser window that shows the running image, which then replaces that page with the output. Since Internet Explorer 11 does not allow the replacement of that window, it opens a new window instead.

This browser limitation can be remedied by an administrator. For more information, see <https://social.msdn.microsoft.com/Forums/ie/en-US/a5c294e2-e407-491d-ba6a-b7f7edbcabaf/ie11-cant-post-form-data-to-specific-frame-or-window-dialog-opened-via-windowopen?forum=iewebdevelopment>

## Mobile Browser Information

If you are planning to use Web Query on mobile devices, note the following regarding mobile browser support. If you will be using Web Query on the Windows operating system, see the Web Browser support information.

**Note:** Browsers released after the production date of a Web Query version are subject to certification.

InfoAssist is not supported on mobile devices.

The following devices were used in testing Web Query 2.3:

- ☐ iOS 14, 15
- ☐ Android 10, 11
- ☐ Db2 Web Query mobile app

Usage Considerations:

- ☐ Report Broker interfaces are supported on tablets.
- ☐ HTML reporting Table of Contents (BYTOC) feature is not supported.
- ☐ Viewing PDF, Excel, and PowerPoint documents may require a third-party helper app.
- ☐ To open active report content, JavaScript needs to be enabled in your web browser. On mobile devices, please use the Db2 Web Query mobile app. If not installed, download it from the App Store for iOS devices or from the Google Play Store for Android devices.

This documentation describes prerequisites, known issues, web browser support, and mobile support for the October 2022 - 2.3 HF8 release.

**Note:** The October 2022 HF8 release is a maintenance release only. No new features were introduced in this hotfix.

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:

- ☐ [Prerequisites](#)
  - ☐ [Known Issues](#)
  - ☐ [Browser Information](#)
- 

## Prerequisites

The following topic describes prerequisites for Db2 Web Query 2.3 HF8.

- ☐ Db2 Web Query 2.3.0 is supported on IBM i 7.3, 7.4, and 7.5.
- ☐ For 2.3.0, Windows 10 is required for the Windows client interfaces.
- ☐ The 5770JV1 option 17 - Java SE 8 64-bit Java option must be installed.
- ☐ Additionally, on IBM i 7.3, one or both of the following PTFs must be applied:
  - ☐ 5770JV1 PTFs SI62011 and SI61994
  - ☐ Java group PTF SF99725 level 3 or higher

## Known Issues

The following topics describe known issues in Db2 Web Query.

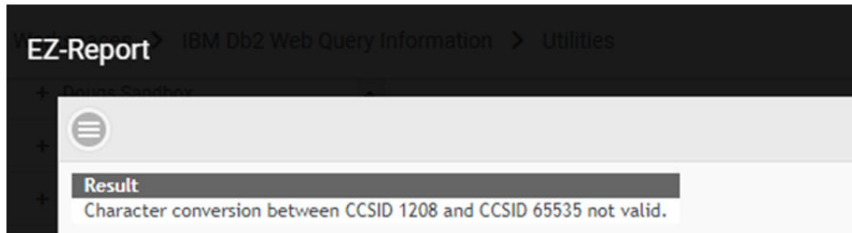
### Multi-Task Schedules

Opening a multi-task schedule in the MR interface (browser) silently removes the additional tasks, without notifying the user, when the Save or Save As option is used.

**Workaround:** The Save and Save As options from Developer Workbench do not have this issue when editing a multi-task schedule.

## EZ-Report

The EZ-Report utility fails on IBM i releases 7.4 and 7.5 with a 'Character conversion between CCSID 1208 and CCSID 65535 not valid' message, as shown in the following image.

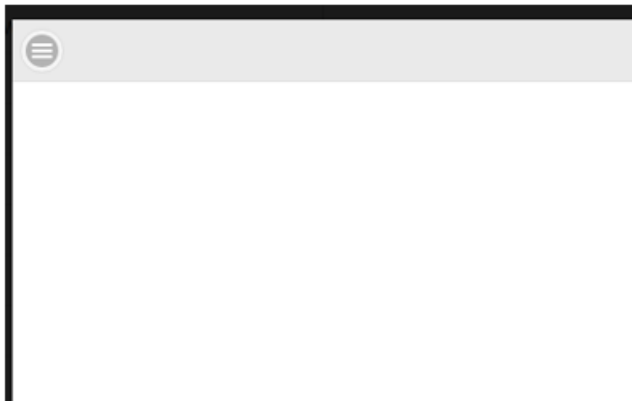


To resolve the problem, apply the following 5770SS1 PTF for your IBM i release level:

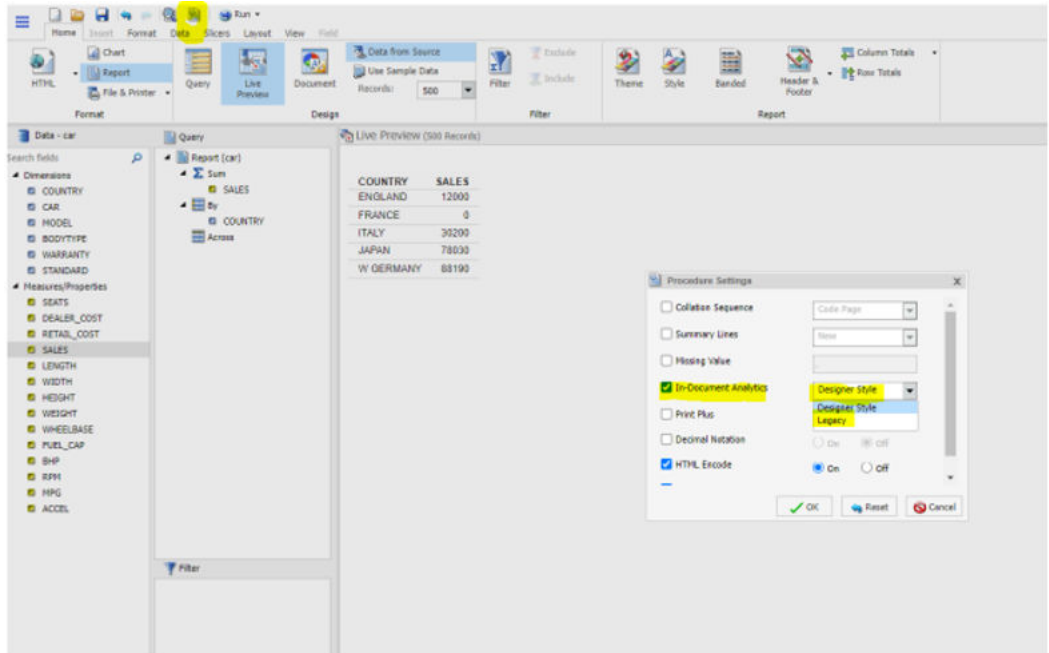
- ☐ IBM i 7.5 - PTF SI80256
- ☐ IBM i 7.4 - PTF SI80105

## Active Reports

When running an active report, the report may appear to load, and then show up blank, as shown in the following image.



This occurs when a combination of Analytic Document options are enabled, the Advanced Tools option is not enabled, and the Legacy View for In-Document Analytics option is selected in the Procedure Settings dialog box, as shown in the following image.



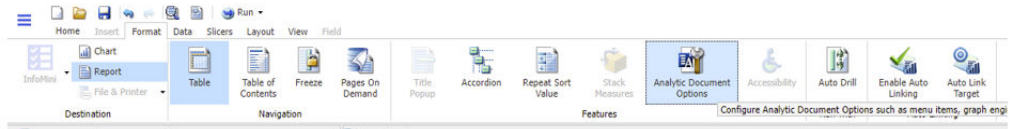
To verify the cause of the blank report, open the Developer Tools in the browser and navigate to the Console tab.

If you see the error *Uncaught Reference Error: ibiChart is not defined*, as shown in the following image, implement the described workaround.

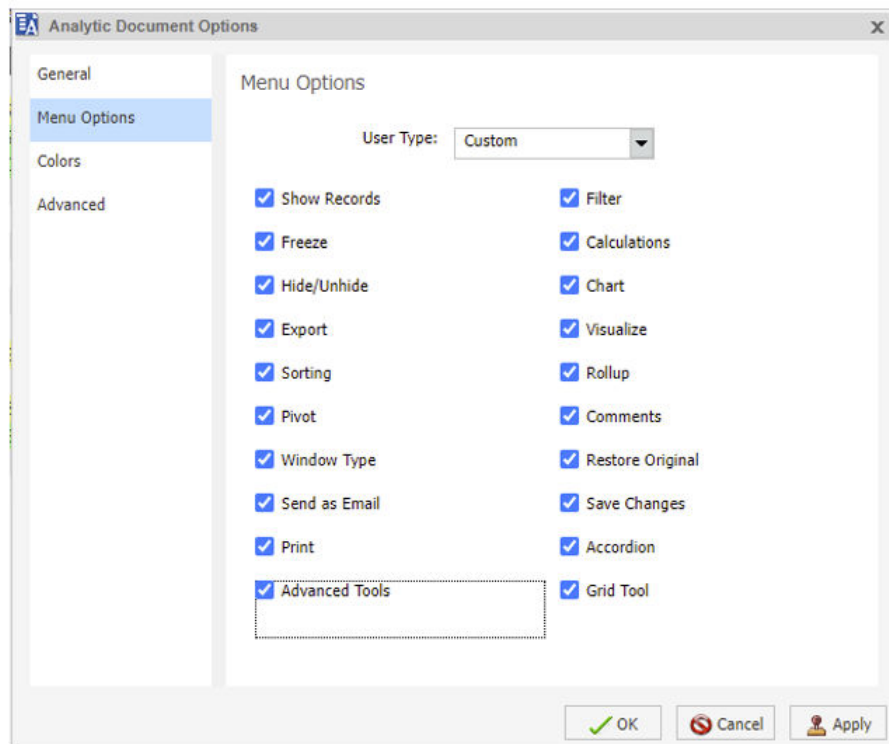


## Workaround

1. Edit the report in InfoAssist.
2. Select the *Format* tab and then click *Analytical Document Options*, as shown in the following image.



3. Select *Menu Options* and then select *Advanced Tools*, as shown in the following image.



4. Click *OK* and save the report.

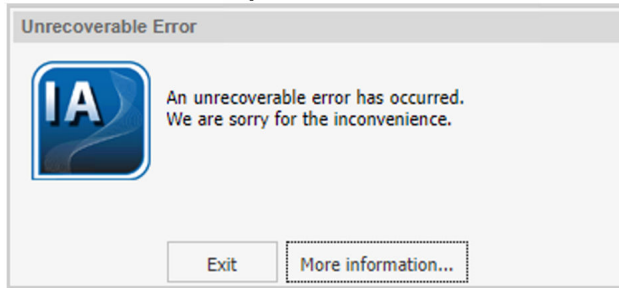
## Developer Workbench

This section addresses the known issues for Developer Workbench.

- ❑ New SQL reports created with the SQL Report Wizard in Developer Workbench will fail to run with the following error:

**(FOC205) THE DESCRIPTION CANNOT BE FOUND FOR FILE NAMED: FOCCACHE/SQLOUT**

New and existing SQL reports created with the SQL Report Wizard cannot be edited in Developer Workbench and will fail with the following error:



**Note:** Existing, unedited SQL reports will continue to run.

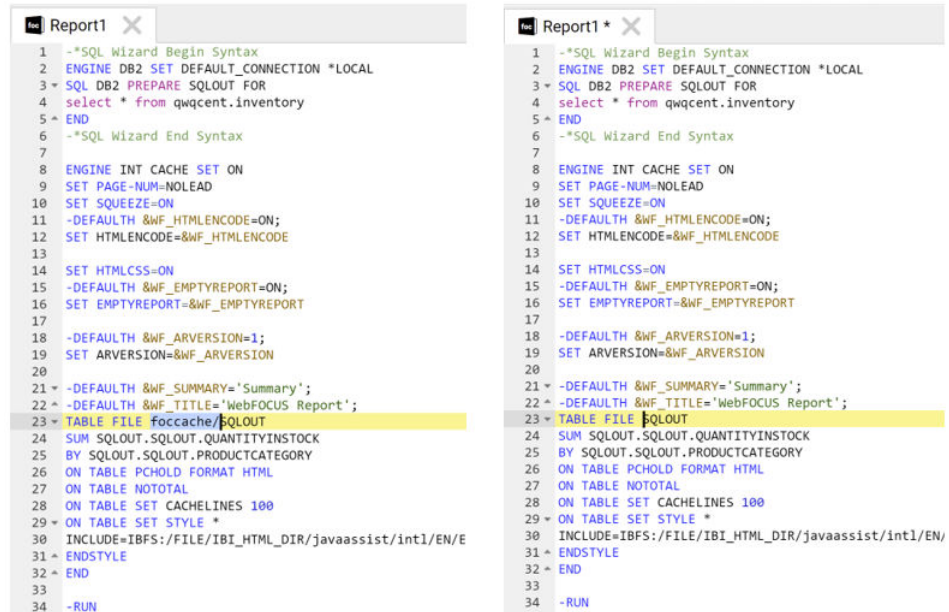
### Workarounds:

- ❑ Alternative and more strategic methods for auto generating a synonym and report over an SQL statement or procedure can be found in the following white paper:

<http://ibm.biz/db2wq-sql-usage-whitepaper>

- ❑ A Web Query administrator can text edit the report from the Web Query home page and remove *foccache/* from the *TABLE FILE foccache/SQLOUT* line, so that the resulting line is instead *TABLE FILE SQLOUT*.

The following image shows an example SQL report before and after the change.



- ❑ Web Query developers in folder-dba groups cannot create or edit synonyms from the Developer Workbench tree.

**Workaround:** Use the Data Management Console in Developer Workbench or use the Reporting Server Console from the browser.

## Db2 Web Query Designer

This following is a known issue for Db2 Web Query Designer.

- ❑ Db2 Web Query Designer does not yet support running a chart with an output format that embeds graphics, such as PDF and Excel. When creating charts with embedded graphics formats, you can use InfoAssist, available from the Home Page.

## REST-Based Application Extension (WQRAX)

This section addresses the known issues for the REST-Based Application Extension (WQRAX).

- ❑ Certain types of reports, including visualizations which utilize some maps, will not render properly when invoked through 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.

**Workaround:** Either edit and save the HTML file in the Developer Workbench HTML canvas, which will make the changes automatically, or edit and save the HTML dashboard 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

- ❑ The Upload Wizard fails in BI portal (Legacy mode).
- ❑ 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.

- ❑ 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 Metadata Wizard fails in BI portal (Legacy mode).
- ❑ 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

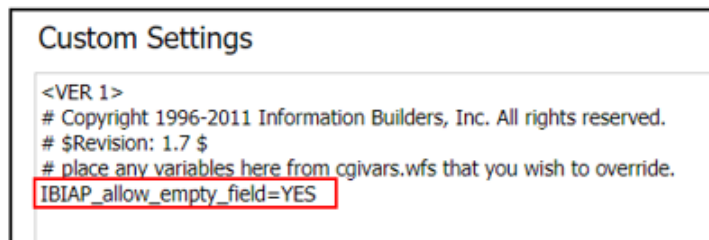
This section addresses the known issues for InfoAssist.

- ❑ The 2014 Demographic layers do not render on an ESRI map.
- ❑ At run time, a report will fail if empty filter values are entered for simple parameter prompts. To resolve the issue, the Web Query administrator can configure a setting to allow empty values, as follows.

1. In the Administration Console, on the *Configuration* tab, click *Custom Settings*.
2. To permit the use of empty fields in filter prompts, type the command:

```
IBIAP_allow_empty_field=YES
```

Type it under the final comment statement at the top of the Custom Settings text box or under the most recent custom setting entry, as shown in the following image.



3. To store the settings in an encrypted format, select the *Encrypt* check box.
4. When your configuration is complete, click *Save*.
5. When you receive a confirmation message, click *OK*.
6. When the Custom Setting page clears, click *Custom Settings* under the Application Settings folder to see your updated comments, settings, or commands in the Custom Settings text box.

7. If you later decide to prohibit the use of empty fields, change the command to:

```
IBIAP_allow_empty_field=NO
```

Alternatively, you can delete the following command from the Custom Settings page or convert it to a comment if you plan to reactivate this feature.

```
IBIAP_allow_empty_field=YES
```

8. When your configuration is complete, click Save.

- ☐ If you run a request with output to a Db2 file, and you see the following error message, `(FOC36219) AN ERROR OCCURRED WHEN OPENING FILE: HOLD MASTER`, then open the report in InfoAssist and re-save it. This removes the internal directive to save the metadata to an explicit location, as it is not needed in this context.
- ☐ The German translation of the visualization filter box for BLANK does not match the run-time option.

## JD Edwards Adapters

This section addresses the known issue 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 issue 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://SYS/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.

## Spreadsheet Client

This section addresses the known issue for Spreadsheet Client.

- ❑ The data source is not correct when creating a report using metadata that is under the user's top-level folder. By default, Spreadsheet Client shows metadata in the baseapp folder.
- ❑ HTML report data is not written into Excel.
- ❑ Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.

## National Language Support

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

- ❑ When the Reporting Server runs in CCSID 285, HTML dashboards fail with JavaScript errors if running in a Firefox or Internet Explorer browser. This is caused by an encoding problem in the IBM Websphere Application Server plugin. To resolve the problem, apply the following PTF for your release level of product 5770DG1:
  - ❑ 7.3: SI69363
- ❑ Some of the Retail Sample reports will not run in NLS or DBCS languages. This issue will be resolved in an upcoming PTF.

## 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. To create Query/400 synonyms, right-click a folder and select the *Metadata New* option.
- ❑ Creating a synonym for a Query/400 file fails when it is launched from a subfolder.

## Browser Information

The following topics describe information for the available web and mobile browsers for Web Query 2.3.

## Web Browsers

The following browsers are certified for Web Query and Developer Workbench.

- ❑ Microsoft Edge™ 102
- ❑ Google Chrome™ 102
- ❑ Mozilla Firefox® 100

## Release 2.3 Notes

- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Chart/Graph request notes:
  - ❑ *Browser-generated graphs* refer to graphs that are rendered inside the browser using HTML5 (and JavaScript). Browser-generated graphs are utilized in both standard HTML5 output ("FORMAT JSCHART"), and in Active Technologies ("FORMAT AHTML").

- ☐ *Server-generated graphs* refer to 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
- ☐ 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 when distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are base64 encoded within the generated .htm file.
- ☐ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the browser's configuration information on how to change the Application Options settings for the relevant content types so that the browser will automatically use Adobe Reader.
- ☐ Adobe Reader support:
  - ☐ Acrobat Reader DC is certified
  - ☐ Adobe XI is supported
  - ☐ Adobe X is supported
- ☐ If you are using Internet Explorer® 11 on a Windows® 2012 R2 OS and you attempt to run an object (such as a report or chart in InfoAssist), Internet Explorer 11 opens it in a new window instead of targeting the object to a specific frame. For example, in InfoAssist, the New Window Runtime opens a new browser window that shows the running image, which then replaces that page with the output. Since Internet Explorer 11 does not allow the replacement of that window, it opens a new window instead.

This browser limitation can be remedied by an administrator. For more information, see <https://social.msdn.microsoft.com/Forums/ie/en-US/a5c294e2-e407-491d-ba6a-b7f7edbcabaf/ie11-cant-post-form-data-to-specific-frame-or-window-dialog-opened-via-windowopen?forum=iewebdevelopment>

## Mobile Browser Information

If you are planning to use Web Query on mobile devices, note the following regarding mobile browser support. If you will be using Web Query on the Windows operating system, see the Web Browser support information.

**Note:** Browsers released after the production date of a Web Query version are subject to certification.

InfoAssist is not supported on mobile devices.

The following devices were used in testing Web Query 2.3:

- ☐ iOS 14, 15
- ☐ Android 10, 11
- ☐ Db2 Web Query mobile app

Usage Considerations:

- ☐ Report Broker interfaces are supported on tablets.
- ☐ HTML reporting Table of Contents (BYTOC) feature is not supported.
- ☐ Viewing PDF, Excel, and PowerPoint documents may require a third-party helper app.
- ☐ To open active report content, JavaScript needs to be enabled in your web browser. On mobile devices, please use the Db2 Web Query mobile app. If not installed, download it from the App Store for iOS devices or from the Google Play Store for Android devices.



# Chapter 3

## Db2 Web Query Version 2.3 - July 2022 - HF7

This documentation describes new features, prerequisites, known issues, web browser support, and mobile support for the July 2022 - 2.3 HF7 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:

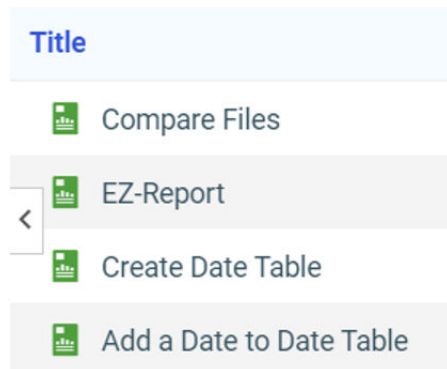
- ☐ [Db2 Web Query for i Enhancements](#)
- ☐ [Prerequisites](#)
- ☐ [Known Issues](#)
- ☐ [Browser Information](#)

## Db2 Web Query for i Enhancements

The following are new feature enhancements that apply to Db2 Web Query for i.

### Developer Utilities Workspace

Several utility reports provided by IBM are moved to a new workspace location. The utilities, previously located in the *IBM Db2 Web Query Information* workspace, were only available to Web Query administrators. They are now located in a new workspace, *IBM Db2 Web Query Developer Utilities*, for access by Web Query developers. The following image shows the list of the moved utilities.



To run the utilities, a developer must be a member of the folder-run group for the *IBM Db2 Web Query Developer Utilities* folder. An administrator can add the developer to the group using either Security Center or the Register Web Query User (REGWQUSR) command.

The following are brief descriptions of the utilities.

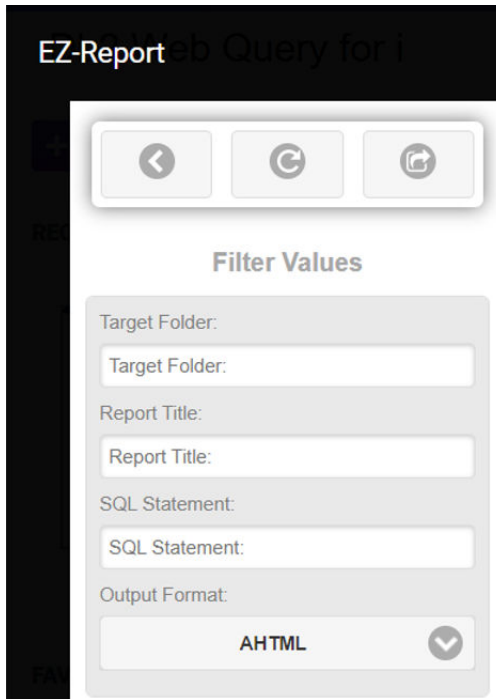
- ❑ **Compare Files.** Compares one or more key columns in two Db2 files and reports differences in the column values.
- ❑ **EZ-Report.** Provides a quick way to auto generate a synonym and report from an SQL statement or file/table.
- ❑ **Create Date Table.** Creates a date dimension table designed for simplifying legacy date fields, for example, where dates are stored in non-DATE data types, such as an 8-byte packed decimal field.
- ❑ **Add a Date to Date Table.** Adds a date to an existing date table. This is typically used to add a row in the date dimension table for dates in your fields that may not make sense, such as 99-99-9999.

## EZ-Report

EZ-Report is a utility in the *IBM Db2 Web Query Developer Utilities* workspace. As the name implies, it allows for quick and easy creation of a report. You specify an SQL statement or table/file, name, and location for the report, and then the report and underlying metadata (synonym) are created automatically.

The EZ-Report utility, previously available only to Web Query administrators, is now available to Web Query developers. A developer must be a member of the folder-dev and folder-dba groups for the Target Folder. A Web Query administrator can add developers to the groups in Security Center or by using the Register Web Query User (REGWQUSR) command.

The EZ-Report interface is updated. The following image shows the parameter prompts.



The screenshot shows the EZ-Report interface with a dark header bar containing the text "EZ-Report" and "Web Query for i". Below the header is a white box with three circular icons: a back arrow, a refresh/circular arrow, and a share/external link arrow. Below this is a section titled "Filter Values" in bold. Under "Filter Values" are four input fields, each with a label and a text entry box: "Target Folder:" (with a text entry box), "Report Title:" (with a text entry box), "SQL Statement:" (with a text entry box), and "Output Format:" (with a dropdown menu showing "AHTML" and a downward arrow icon).

The Target Folder prompt for EZ-Report is changed from a pull-down selection to a text entry parameter. The Report Title can be up to a maximum of 256 characters. Note that the report name is automatically generated from the Report Title by replacing spaces or other non-alphabetic and non-numeric characters with an underscore (\_) in the report name. The Validation List prompt, required for earlier versions, is removed and no longer needed.

### SQL Procedure to Change the Active RTE for a User

The Dynamic Runtime Environment (RTE) feature of Web Query provides a quick and easy way to switch reports between identical data sources in different libraries on the IBM i. Using a multi-tenant example, where each client has a unique library, but each library contains the same tables, a user may want to run a report using a client's data set, then run it again using similarly formatted data for another client. Assigning and activating RTEs for a user manipulates the library list that is used when accessing the data.

Until now, the two methods to change the active RTE for a user were from the Work Web Query RTE (WRKWQ RTE) command or from the toolbar in a Web Query browser session. A third method is now available to change the active RTE using an SQL procedure. The benefit is that it can be changed programmatically. This adds flexibility, particularly when combined in scheduled jobs with the Run Web Query Report (RUNWQFEX) command to run and distribute reports.

The SQL procedure is in the QWEBQRY library and is named QWQ\_CHANGE\_ACTIVE\_RTE\_FOR\_USER. Two parameters are passed to the procedure, as shown in the following table.

Parameter	Format	Description
User	CHAR(10)	User profile of a Developer User whose active RTE will be changed.
RTE	CHAR(10)	Name of the RTE that will be activated for the user.

Users can run the procedure to change *their own* active RTE. To change another user's RTE, the caller must be a Web Query administrator.

The following is an example procedure call where the active RTE for the WQUSER profile is being changed to REGION401.

```
exec sql call
  wquser.QWQ_CHANGE_ACTIVE_RTE_FOR_USER('WQUSER','REGION401',:rcode);
```

For more details regarding RTEs, refer to the Web Query wiki at <http://ibm.biz/db2wq-runtime>.

## Prerequisites

The following topic describes prerequisites for Db2 Web Query 2.3 HF7.

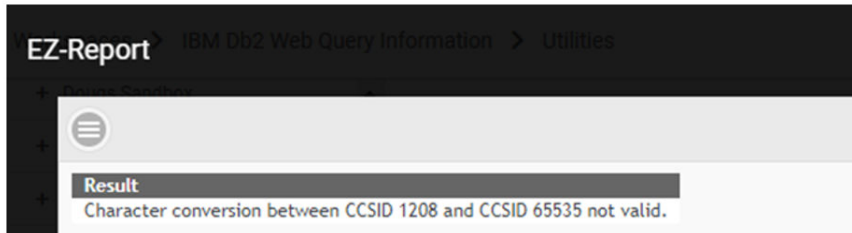
- ☐ Db2 Web Query 2.3.0 is supported on IBM i 7.3, 7.4, and 7.5.
- ☐ For 2.3.0, Windows 10 is required for the Windows client interfaces.
- ☐ The 5770JV1 option 17 - Java SE 8 64-bit Java option must be installed.
- ☐ Additionally, on IBM i 7.3, one or both of the following PTFs must be applied:
  - ☐ 5770JV1 PTFs SI62011 and SI61994
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## Known Issues

The following topics describe known issues in Db2 Web Query.

### EZ-Report

The EZ-Report utility fails on IBM i releases 7.4 and 7.5 with a 'Character conversion between CCSID 1208 and CCSID 65535 not valid' message, as shown in the following image.

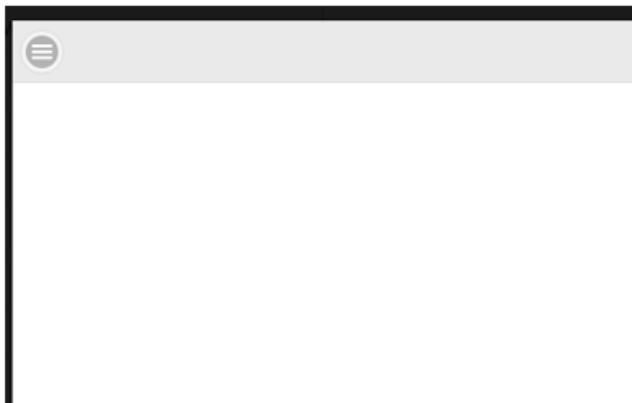


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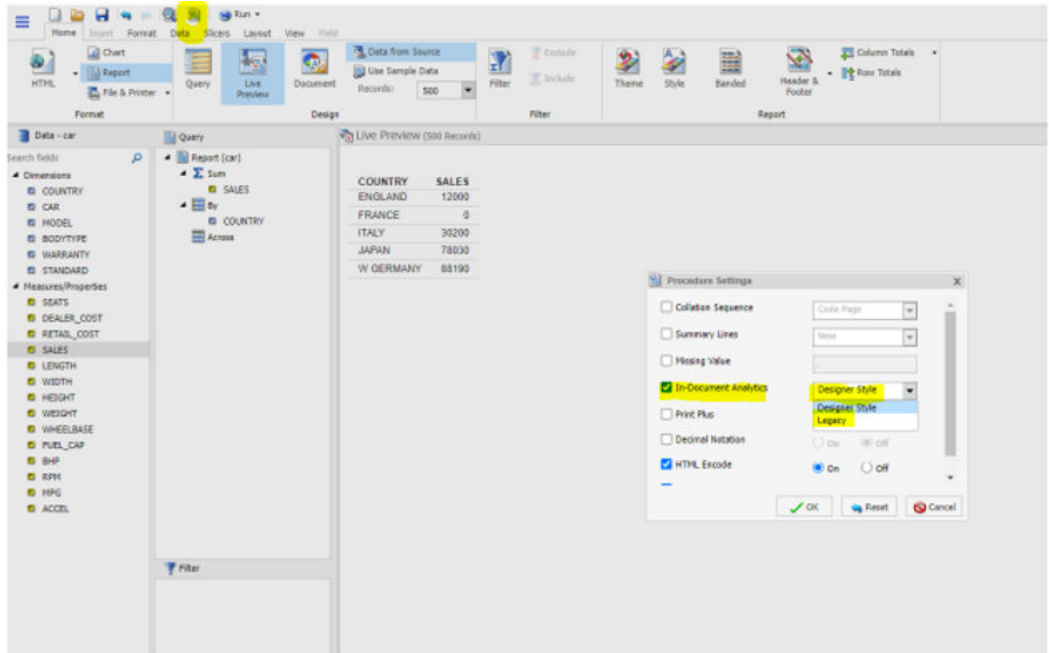
- ☐ IBM i 7.5 - PTF SI80256
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### Active Reports

When running an active report, the report may appear to load, and then show up blank, as shown in the following image.



This occurs when a combination of Analytic Document options are enabled, the Advanced Tools option is not enabled, and the Legacy View for In-Document Analytics option is selected in the Procedure Settings dialog box, as shown in the following image.



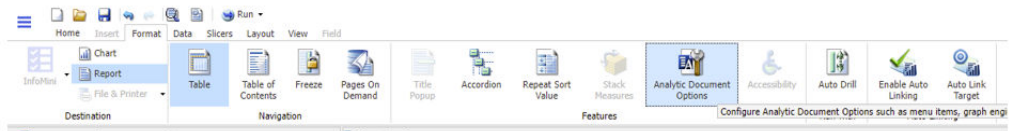
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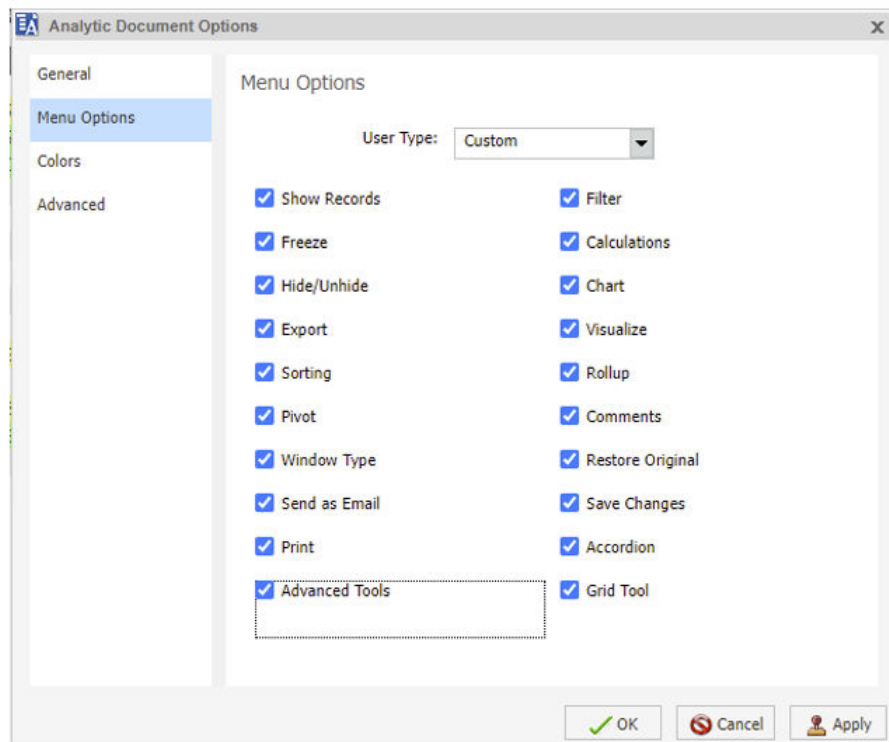


### Workaround

1. Edit the report in InfoAssist.
2. Select the *Format* tab and then click *Analytical Document Options*, as shown in the following image.



3. Select *Menu Options* and then select *Advanced Tools*, as shown in the following image.



4. Click *OK* and save the report.

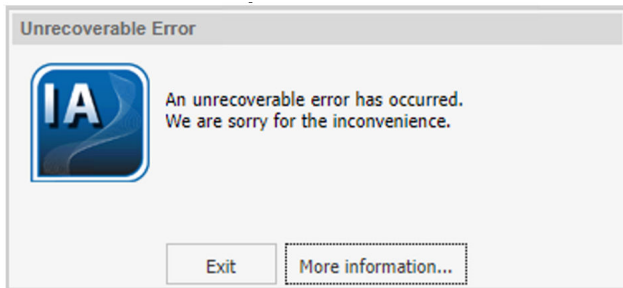
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New and existing SQL reports created with the SQL Report Wizard cannot be edited in Developer Workbench and will fail with the following error:



**Note:** Existing, unedited SQL reports will continue to run.

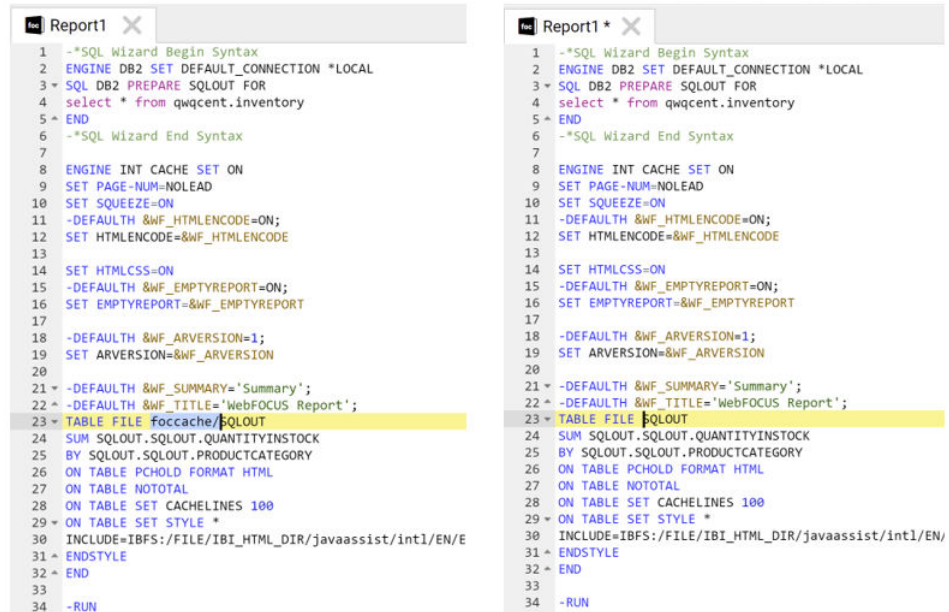
### Workarounds:

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The following image shows an example SQL report before and after the change.



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**Workaround:** Either edit and save the HTML file in the Developer Workbench HTML canvas, which will make the changes automatically, or edit and save the HTML dashboard using the following steps:

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- ❑ Excel Worksheet name.
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### Metadata Wizard

- ❑ The Metadata Wizard fails in BI portal (Legacy mode).
- ❑ 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

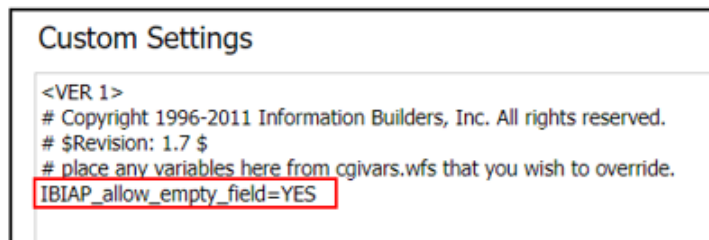
This section addresses the known issues for InfoAssist.

- ❑ The 2014 Demographic layers do not render on an ESRI map.
- ❑ At run time, a report will fail if empty filter values are entered for simple parameter prompts. To resolve the issue, the Web Query administrator can configure a setting to allow empty values, as follows.

1. In the Administration Console, on the *Configuration* tab, click *Custom Settings*.
2. To permit the use of empty fields in filter prompts, type the command:

```
IBIAP_allow_empty_field=YES
```

Type it under the final comment statement at the top of the Custom Settings text box or under the most recent custom setting entry, as shown in the following image.



3. To store the settings in an encrypted format, select the *Encrypt* check box.
4. When your configuration is complete, click *Save*.
5. When you receive a confirmation message, click *OK*.
6. When the Custom Setting page clears, click *Custom Settings* under the Application Settings folder to see your updated comments, settings, or commands in the Custom Settings text box.

7. If you later decide to prohibit the use of empty fields, change the command to:

```
IBIAP_allow_empty_field=NO
```

Alternatively, you can delete the following command from the Custom Settings page or convert it to a comment if you plan to reactivate this feature.

```
IBIAP_allow_empty_field=YES
```

8. When your configuration is complete, click Save.

- ☐ If you run a request with output to a Db2 file, and you see the following error message, `(FOC36219) AN ERROR OCCURRED WHEN OPENING FILE: HOLD MASTER`, then open the report in InfoAssist and re-save it. This removes the internal directive to save the metadata to an explicit location, as it is not needed in this context.
- ☐ The German translation of the visualization filter box for BLANK does not match the run-time option.

## JD Edwards Adapters

This section addresses the known issue 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 issue 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.

## Spreadsheet Client

This section addresses the known issue for Spreadsheet Client.

- ❑ The data source is not correct when creating a report using metadata that is under the user's top-level folder. By default, Spreadsheet Client shows metadata in the baseapp folder.
- ❑ HTML report data is not written into Excel.
- ❑ Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.

## National Language Support

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

- ❑ When the Reporting Server runs in CCSID 285, HTML dashboards fail with JavaScript errors if running in a Firefox or Internet Explorer browser. This is caused by an encoding problem in the IBM Websphere Application Server plugin. To resolve the problem, apply the following PTF for your release level of product 5770DG1:
  - ❑ 7.3: SI69363
- ❑ Some of the Retail Sample reports will not run in NLS or DBCS languages. This issue will be resolved in an upcoming PTF.

### 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. To create Query/400 synonyms, right-click a folder and select the *Metadata New* option.
- ❑ Creating a synonym for a Query/400 file fails when it is launched from a subfolder.

### Browser Information

The following topics describe information for the available web and mobile browsers for Web Query 2.3.

### Web Browsers

The following browsers are certified for Web Query and Developer Workbench.

- ❑ Microsoft Edge™ 102
- ❑ Google Chrome™ 102
- ❑ Mozilla Firefox® 100

### Release 2.3 Notes

- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Chart/Graph request notes:
  - ❑ *Browser-generated graphs* refer to graphs that are rendered inside the browser using HTML5 (and JavaScript). Browser-generated graphs are utilized in both standard HTML5 output ("FORMAT JSCHART"), and in Active Technologies ("FORMAT AHTML").
  - ❑ *Server-generated graphs* refer to 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
- ☐ 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 when distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are base64 encoded within the generated .htm file.
- ☐ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the browser's configuration information on how to change the Application Options settings for the relevant content types so that the browser will automatically use Adobe Reader.
- ☐ Adobe Reader support:
  - ☐ Acrobat Reader DC is certified
  - ☐ Adobe XI is supported
  - ☐ Adobe X is supported
- ☐ If you are using Internet Explorer® 11 on a Windows® 2012 R2 OS and you attempt to run an object (such as a report or chart in InfoAssist), Internet Explorer 11 opens it in a new window instead of targeting the object to a specific frame. For example, in InfoAssist, the New Window Runtime opens a new browser window that shows the running image, which then replaces that page with the output. Since Internet Explorer 11 does not allow the replacement of that window, it opens a new window instead.

This browser limitation can be remedied by an administrator. For more information, see <https://social.msdn.microsoft.com/Forums/ie/en-US/a5c294e2-e407-491d-ba6a-b7f7edbcabaf/ie11-cant-post-form-data-to-specific-frame-or-window-dialog-opened-via-windowopen?forum=iwebdevelopment>

## Mobile Browser Information

If you are planning to use Web Query on mobile devices, note the following regarding mobile browser support. If you will be using Web Query on the Windows operating system, see the Web Browser support information.

**Note:** Browsers released after the production date of a Web Query version are subject to certification.

InfoAssist is not supported on mobile devices.

The following devices were used in testing Web Query 2.3:

- ❑ iOS 12
- ❑ Android 8.0, 7.1
- ❑ Db2 Web Query mobile app

Usage Considerations:

- ❑ Report Broker interfaces are supported on tablets.
- ❑ HTML reporting Table of Contents (BYTOC) feature is not supported.
- ❑ Viewing PDF, Excel, and PowerPoint documents may require a third-party helper app.
- ❑ To open active report content, JavaScript needs to be enabled in your web browser. On mobile devices, please use the Db2 Web Query mobile app. If not installed, download it from the App Store for iOS devices or from the Google Play Store for Android devices.

This documentation describes advisories, prerequisites, known issues, web browser support, and mobile support for the June 2022 - 2.3 HF6 release.

**Note:** The June 2022 HF6 release is a maintenance release only. No new features were introduced in this hotfix.

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:

- ☐ [Advisories](#)
  - ☐ [Prerequisites](#)
  - ☐ [Known Issues](#)
  - ☐ [Browser Information](#)
- 

## Advisories

The following topic describes an advisory for Db2 Web Query.

### Multiple Vulnerabilities in Spring Framework

There are multiple vulnerabilities in Spring Framework, as described by CVE-2022-22968, CVE-2022-22965, and CVE-2022-22950. Spring Framework v5.3.8 is used by Db2 Web Query for i for infrastructure support. This hotfix address these vulnerabilities. For more detail, refer to the Security Bulletin at:

<https://www.ibm.com/support/pages/node/6593861>

## Prerequisites

The following topic describes prerequisites for Db2 Web Query 2.3 HF6.

- ☐ Db2 Web Query 2.3.0 is supported on IBM i 7.3, 7.4, and 7.5.
- ☐ For 2.3.0, Windows 10 is required for the Windows client interfaces.
- ☐ The 5770JV1 option 17 - Java SE 8 64-bit Java option must be installed.

- ❑ Additionally, on IBM i 7.3, one or both of the following PTFs must be applied:
  - ❑ 5770JV1 PTFs SI62011 and SI61994
  - ❑ Java group PTF SF99725 level 3 or higher

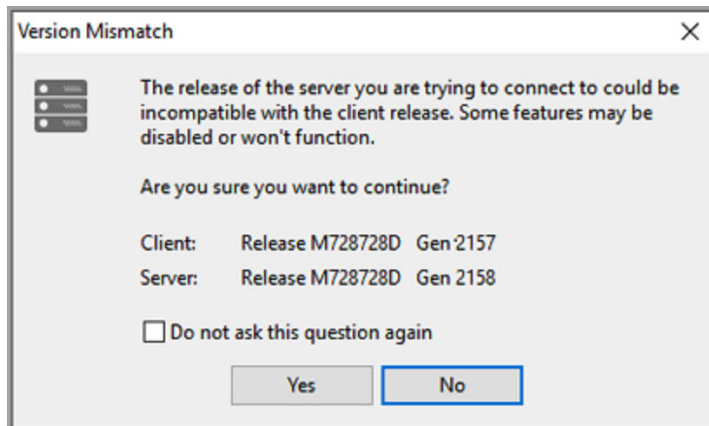
## Known Issues

The following topics describe known issues in Db2 Web Query.

### Developer Workbench

This following is a known issue for Developer Workbench.

- ❑ When connecting to the Web Query Reporting Server from the Data Management Console (DMC), a Version Mismatch warning message occurs, as shown in the following image. You may press Yes to continue.



**Note:** If you receive a Version Mismatch warning and your Client Gen number is prior to 2157, then you should download and install the HF6 version of Developer Workbench.

### Db2 Web Query Designer

This following is a known issue for Db2 Web Query Designer.

- ❑ Db2 Web Query Designer does not yet support running a chart with an output format that embeds graphics, such as PDF and Excel. When creating charts with embedded graphics formats, you can use InfoAssist, available from the Legacy Home Page.

## REST-Based Application Extension (WQRAX)

This section addresses the known issues for the REST-Based Application Extension (WQRAX).

- ❑ Certain types of reports, including visualizations which utilize some maps, will not render properly when invoked through 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.

**Workaround:** Either edit and save the HTML file in the Developer Workbench HTML canvas, which will make the changes automatically, or edit and save the HTML dashboard 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

- ❑ The Upload Wizard fails in BI portal (Legacy mode).
- ❑ 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.

- ❑ 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 Metadata Wizard fails in BI portal (Legacy mode).
- ❑ 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

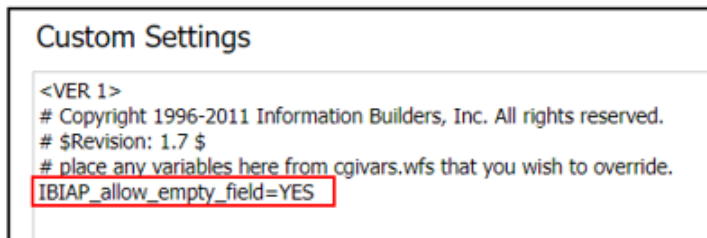
This section addresses the known issues for InfoAssist.

- ❑ The 2014 Demographic layers do not render on an ESRI map.
- ❑ At run time, a report will fail if empty filter values are entered for simple parameter prompts. To resolve the issue, the Web Query administrator can configure a setting to allow empty values, as follows.

1. In the Administration Console, on the *Configuration* tab, click *Custom Settings*.
2. To permit the use of empty fields in filter prompts, type the command:

```
IBIAP_allow_empty_field=YES
```

Type it under the final comment statement at the top of the Custom Settings text box or under the most recent custom setting entry, as shown in the following image.



3. To store the settings in an encrypted format, select the *Encrypt* check box.
4. When your configuration is complete, click *Save*.

5. When you receive a confirmation message, click *OK*.
6. When the Custom Setting page clears, click *Custom Settings* under the Application Settings folder to see your updated comments, settings, or commands in the Custom Settings text box.
7. If you later decide to prohibit the use of empty fields, change the command to:

```
IBIAP_allow_empty_field=NO
```

Alternatively, you can delete the following command from the Custom Settings page or convert it to a comment if you plan to reactivate this feature.

```
IBIAP_allow_empty_field=YES
```

8. When your configuration is complete, click *Save*.

## JD Edwards Adapters

This section addresses the known issue 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 issue 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://SYS/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.

### Spreadsheet Client

This section addresses the known issue for Spreadsheet Client.

- ☐ HTML report data is not written into Excel.
- ☐ The incorrect add-in (.xla) file is included.
- ☐ Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.

### National Language Support

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

- ☐ When the Reporting Server runs in CCSID 285, HTML dashboards fail with JavaScript errors if running in a Firefox or Internet Explorer browser. This is caused by an encoding problem in the IBM Websphere Application Server plugin. To resolve the problem, apply the following PTF for your release level of product 5770DG1:
  - ☐ 7.3: SI69363
- ☐ Some of the Retail Sample reports will not run in NLS or DBCS languages. This issue will be resolved in an upcoming PTF.

### 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. To create Query/400 synonyms, right-click a folder and select the *Metadata New* option.
- ☐ Creating a synonym for a Query/400 file fails when it is launched from a subfolder.

## Advisories

The following topics describe advisories for Db2 Web Query.

### Esri Mapping Demographic Layers 2010-2014 Retirement Statement

The Esri® Mapping Demographic Layers for years 2010, 2011, 2012, 2013, and 2014, which can be used with Web Query, will no longer be supported as a result of their [retirement by Esri](#). In a future release or hotfix, you will no longer be able to configure these layers. If you have charts created in Web Query InfoAssist that reference these layers, you must manually edit them to remove the reference, otherwise these layers may not render.

The following Demographic Layers have been retired by Esri and may not be available in Web Query:

- ☐ USA Health Care Spending 2014
- ☐ USA Population Change 2000-2010
- ☐ USA Population Change 2010-2012
- ☐ USA Population Density 2012
- ☐ USA Population Density 2013
- ☐ USA Population Density 2014
- ☐ USA Population Older than Age 64
- ☐ USA Population Younger than Age 18
- ☐ USA Projected Population Growth 2012-2017
- ☐ USA Restaurant Spending 2014
- ☐ USA Tapestry Segmentation 2012
- ☐ USA Tapestry Segmentation 2014
- ☐ USA Unemployment Rate 2012

To learn more about the retirement of layers from Esri, visit <http://doc.arcgis.com/en/esri-demographics/reference/legacy-demographic-maps.htm>.

## Browser Information

The following topics describe information for the available web and mobile browsers for Web Query 2.3.

## Web Browsers

The following browsers are certified for Web Query and Developer Workbench.

- ☐ Microsoft Edge™ 99
- ☐ Google Chrome™ 100
- ☐ Mozilla Firefox® 99

## Release 2.3 Notes

- ☐ Simple HTML Web Query reports can be viewed on any browser.
- ☐ Chart/Graph request notes:
  - ☐ *Browser-generated graphs* refer to graphs that are rendered inside the browser using HTML5 (and JavaScript). Browser-generated graphs are utilized in both standard HTML5 output ("FORMAT JSCHART"), and in Active Technologies ("FORMAT AHTML").
  - ☐ *Server-generated graphs* refer to 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
- ☐ 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 when distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are base64 encoded within the generated .htm file.
- ☐ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the browser's configuration information on how to change the Application Options settings for the relevant content types so that the browser will automatically use Adobe Reader.
- ☐ Adobe Reader support:
  - ☐ Acrobat Reader DC is certified
  - ☐ Adobe XI is supported

- ☐ Adobe X is supported
- ☐ If you are using Internet Explorer® 11 on a Windows® 2012 R2 OS and you attempt to run an object (such as a report or chart in InfoAssist), Internet Explorer 11 opens it in a new window instead of targeting the object to a specific frame. For example, in InfoAssist, the New Window Runtime opens a new browser window that shows the running image, which then replaces that page with the output. Since Internet Explorer 11 does not allow the replacement of that window, it opens a new window instead.

This browser limitation can be remedied by an administrator. For more information, see <https://social.msdn.microsoft.com/Forums/ie/en-US/a5c294e2-e407-491d-ba6a-b7f7edbcabaf/ie11-cant-post-form-data-to-specific-frame-or-window-dialog-opened-via-windowopen?forum=iwebdevelopment>

## Mobile Browser Information

If you are planning to use Web Query on mobile devices, note the following regarding mobile browser support. If you will be using Web Query on the Windows operating system, see the Web Browser support information.

**Note:** Browsers released after the production date of a Web Query version are subject to certification.

InfoAssist is not supported on mobile devices.

The following devices were used in testing Web Query 2.3:

- ☐ iOS 12
- ☐ Android 8.0, 7.1
- ☐ Db2 Web Query mobile app

Usage Considerations:

- ☐ Report Broker interfaces are supported on tablets.
- ☐ HTML reporting Table of Contents (BYTOC) feature is not supported.
- ☐ Viewing PDF, Excel, and PowerPoint documents may require a third-party helper app.
- ☐ To open active report content, JavaScript needs to be enabled in your web browser. On mobile devices, please use the Db2 Web Query mobile app. If not installed, download it from the App Store for iOS devices or from the Google Play Store for Android devices.



This documentation describes advisories, new features, prerequisites, changes in behavior, known issues, web browser support, and mobile support for the March 2022 - 2.3 HF5 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:**

- ☐ [Advisories](#)
  - ☐ [Db2 Web Query for i Enhancements](#)
  - ☐ [Prerequisites](#)
  - ☐ [Changes in Behavior](#)
  - ☐ [Known Issues](#)
  - ☐ [Browser Information](#)
- 

### Advisories

The following topic describes an advisory for Db2 Web Query.

#### Multiple Vulnerabilities affect IBM Db2 Web Query for i

IBM Db2 Web Query for i is vulnerable to denial of service in Apache Commons Compress (CVE-2021-36090), arbitrary code execution in Apache Log4j (CVE-2021-44832), and cross-site scripting in TIBCO WebFOCUS (CVE-2021-35493). Apache Commons Compress is used by Db2 Web Query for zipping and unzipping objects, such as import and export packages via Change Management or log files via the Administration Console. Apache Log4j is used by Db2 Web Query for i for generating logs and diagnostic traces in some of its components. TIBCO WebFOCUS is used as the underlying base product for Db2 Web Query for i. IBM has addressed the vulnerabilities in this hotfix by upgrading to Apache Commons Compress 1.21 and Apache Log4j 2.17.1, and by upgrading to remediated components of TIBCO WebFOCUS Release 8207.28. For more details, refer to the Security Bulletin at:

<https://www.ibm.com/support/pages/node/6567195>

## Db2 Web Query for i Enhancements

The following are new feature enhancements that apply to Db2 Web Query for i.

### IBM i 7.5 Support

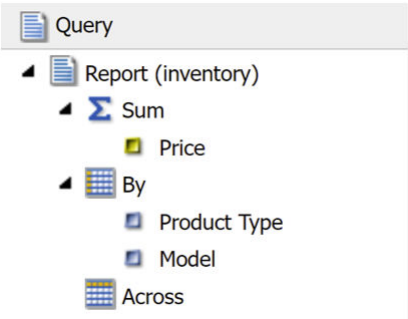
Db2 Web Query version 2.3.0 Level 5 is the minimum level required to run Db2 Web Query on IBM i 7.5. Before starting Web Query for the first time on 7.5, you must have applied the Web Query group PTF for 7.5, SF99671 Level 5, or installed with EZ-Install 2.3.0 Level 5. Note that the IBM Technology for Java SE 8 64-bit feature (5770-JV1 Option 17) was refreshed for 7.5 and is also required for Web Query.

### Passing Values to a Drill-Down Report or Linked Report

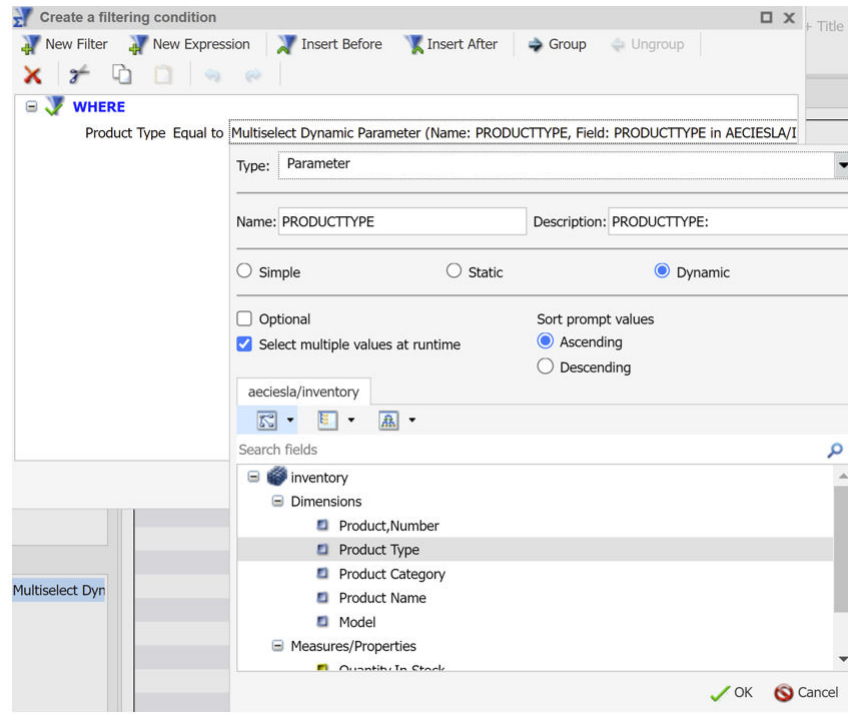
You can pass one or more values from a source report to a parameter in a target report. This can be used when the source and target reports contain single-select or multi-select parameters and use drill downs or auto-linking. The values selected in the source report will be passed to the target report, so the target only displays information for the chosen values. Note that if the target report expects one value and multiple values are passed from the source report, no output will be returned from the target report.

Consider the following example. You have a stock report that shows the quantity in stock for each product type and a price report that shows each product type and the price of each model in every type. You want to select product types in the stock report and then drill down to see the price report information for only those product types. Below is a procedure for achieving this.

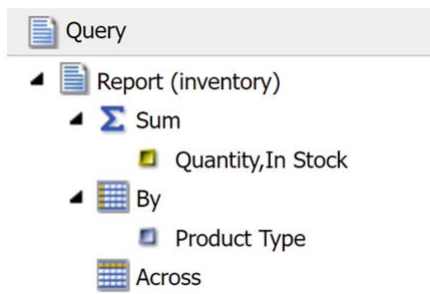
1. Create the price report that sums the price by product type and model, as shown in the following image.



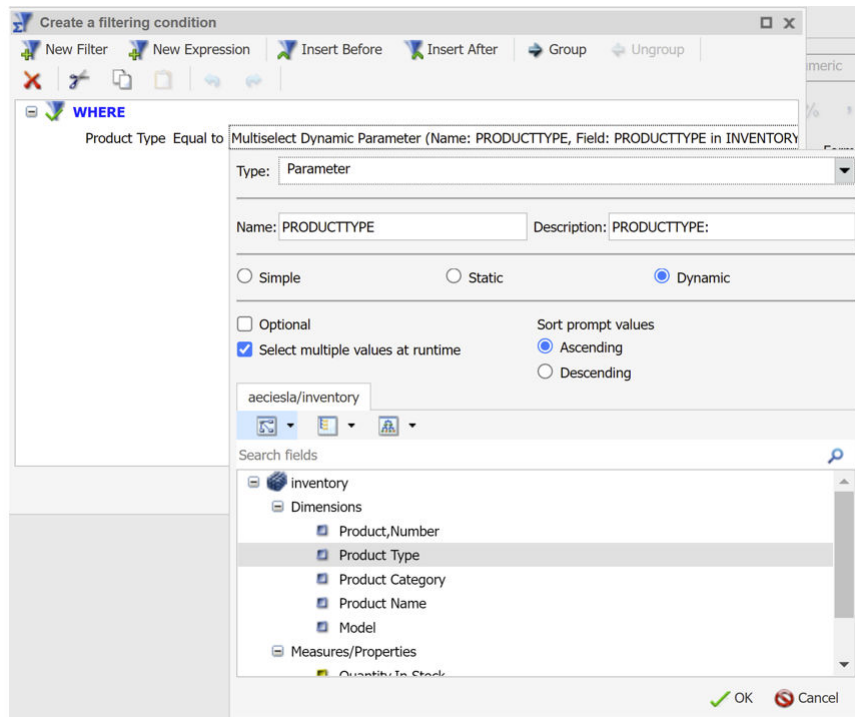
2. Create a dynamic, multi-select parameter filter on the product type column, as shown in the following image.



3. Save and close this report.
4. Create the stock report that the sums the quantity in stock for each product type, as shown in the following image.



5. Create a dynamic, multi-select parameter filter on the product type column, as shown in the following image.



6. Create a drill down on the product type column and select the price report as the target. Under parameters, click the *Add Parameter* button and set Name to *PRODUCTTYPE*. To pass multiple values to the price report, set Type to *Constant* and type *&PRODUCTTYPE* in the Value field, as shown in the following image.

**Drill Down - Product Type**

Target

☒ Report ☐ Refresh BI Portal ☐ Auto Link Target ☐ Web Page

Report\*

IBFS:/WFC/Repository/aeciesla/Target.fex Browse

Description

Target

Target

New Window

Parameters

Name
PRODUCTTYPE

\* Required Field

OK

**Parameter Details**

Name: PRODUCTTYPE

Type and Value

Type: Constant

Value: &PRODUCTTYPE

OK Cancel

To pass one value to the price report, set Type to *Field* and Value to *Product Type*, as shown in the following image.

The screenshot shows the 'Drill Down - Product Type' dialog box. On the left, a sidebar has a 'Target' button. The main area has four radio buttons: 'Report' (selected), 'Refresh BI Portal', 'Auto Link Target', and 'Web Page'. Below these are four fields: 'Report\*' (containing 'IBFS:/WFC/Repository/aeciesla/Target.fex'), 'Description' (containing 'Target'), 'Target' (a dropdown menu showing 'New Window'), and 'Parameters'. The 'Parameters' section contains a table with one row: 'PRODUCTTYPE' with 'Field' as the Type and 'Product Type' as the Value. At the bottom right, there are 'OK' and 'Cancel' buttons.

Name	Type and Value
PRODUCTTYPE	Type: Field Value: Product Type

7. Click *OK* to save the drill-down settings.
8. Save and close this report.

Now, when you run the stock report, you will be prompted to select the product types you wish to view. Then, you see the option to drill down on product type. Click one of the product types. The price report runs and displays only the models and prices for the product types you selected.

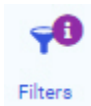
When you run the price report by itself, you will be prompted to select the product types for which you wish to see model and price information.

## Chaining Filters in a Page Assembled From External Content

In Web Query Designer, when a content item or page includes multiple filters, chaining ensures that those filters always return valid values to your content. When you select a value from one of the filter controls, the other controls can be filtered and updated based on the value that you select, if chaining is applied. For example, if you have a filter for Sale Quarter chained to a filter for Sale Month, then if you select Q1 from the Sale Quarter filter, the Sale Month filter updates to show only the months of January, February, and March, and automatically excludes any month values that were not in Q1.

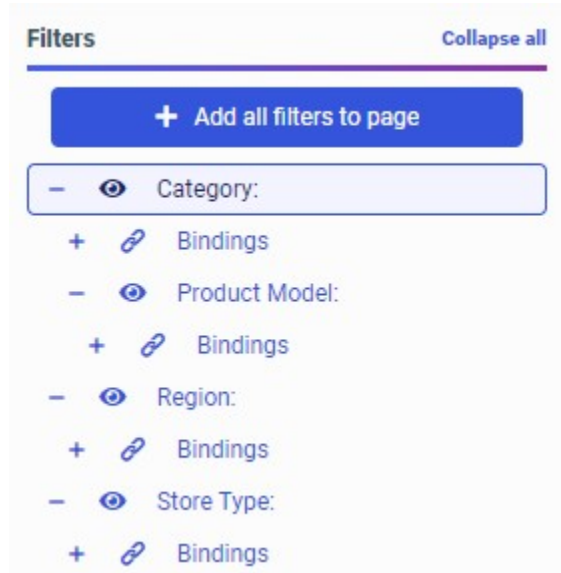
Chaining behavior is automatically applied to filter controls for new content and pages created from new content. In these content items, filter chaining is multidirectional, so it does not matter in what order the filter controls are arranged. Chaining is only applied to filters on alphanumeric dimension fields.

Chaining is also available in pages assembled from existing content, created by clicking *Assemble Visualizations* on the plus menu of the Web Query Home Page. When you create a new assembled page and add content to it that contains dynamic parameter filters, a badge appears on the Filters tab on the sidebar, as shown in the following image.



When you open the Filters tab, the *Add all filters to page* button and a list of parameters from the content items on the page display. Click *Add all filters to page* to create filter controls for all of the listed parameters, or right-click each one and click *Add to page* to add them individually. Once added, the visibility icon next to the parameter is no longer faded.

Chaining relationships are indicated by indents in the parameter list. Filter controls are chained to any filters indented under it in the list. For example, in the following image, the Category filter is chained to the Product Model filter, so when you select a category, the list of available models in the filter control updates.



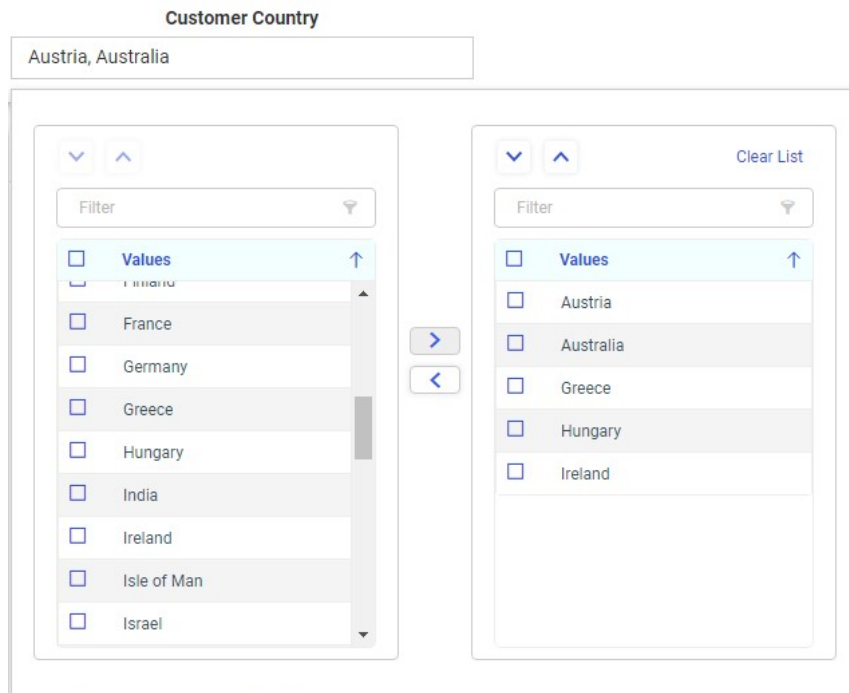
In this example, selections from the Category filter do not affect the Region or Store Type filters, since they are not part of the same chaining hierarchy, and, since filtering in an assembled page is unidirectional, values selected from the Product Model filter do not chain back up to the Category filter.

Filters for fields that are part of the same hierarchy in your metadata are automatically chained. You can also manually apply chaining by dragging one parameter onto another in the parameter list. The filter becomes a child, for chaining purposes, of the field onto which it was placed.


## Double List and Toggle Controls For Assembled Pages

Two new controls are available for alphanumeric parameter filters in pages assembled from external content in Web Query Designer. The double list control allows you to select multiple dimension values and reorder them, while the toggle control allows you to switch between two dimension values.

Each of these controls is specialized for use with particular kinds of parameters. The double list control can be used with any alphanumeric, multi-select parameter. The sorting capability of the double list control is especially useful for multi-select field list parameters in an InfoApp, where you can use it to change the order of sort and measure fields in the parameterized content. A double list control is shown in the following image.



To use the double list control in a page at run time, click the text that shows the selected filter values. The double list control opens. In the control, select a check box in the list of available values on the left for each value that you want to use in the filter, and then click the right arrow

button  to add it to the list of applied filter values on the right. To remove a value from the list of applied values, double-click it or select its check box, and then click the left arrow

button . Click outside the double list control to apply the new filter values.

The toggle control is useful when you want to only provide two available filter values, such as when the filter is used for a Boolean expression, in which a pre-defined flag field can be set to true or false. You can customize the display and actual values and hide the label for the second value in a toggle control from the Settings panel. A toggle control is shown in the following image.



To use a toggle control in a page at run time, click the toggle switch to select the second value, and click it again select the first value again. The creator of the page may choose not to show the label for the second value, if its value can be assumed based on the label for the first value.

To add a double list control or toggle control to a page assembled from external content, add a content item with a dynamic parameter for an alphanumeric field to the page, and then add the automatically generated filter controls to the page. Right-click a drop-down list control, click *Convert*, and then click *Double List* or *Toggle*. The double list control is available for multi-select parameters only.

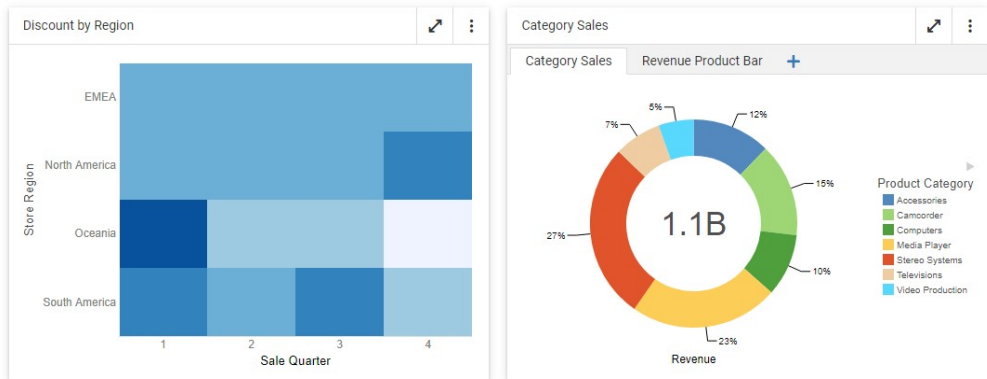
## Combining Containers in a Web Query Designer Page

In Web Query Designer, you can add multiple content items to a tab, accordion, or carousel container. If you add a single content item to a page using a basic panel container, which can only contain a single item, and then drag a second content item into the same container, you have the option to transform this container into a type of container that supports multiple content items. Additionally, if you have previously added multiple items to a page in separate containers, you can combine them into a single, multi-content container.

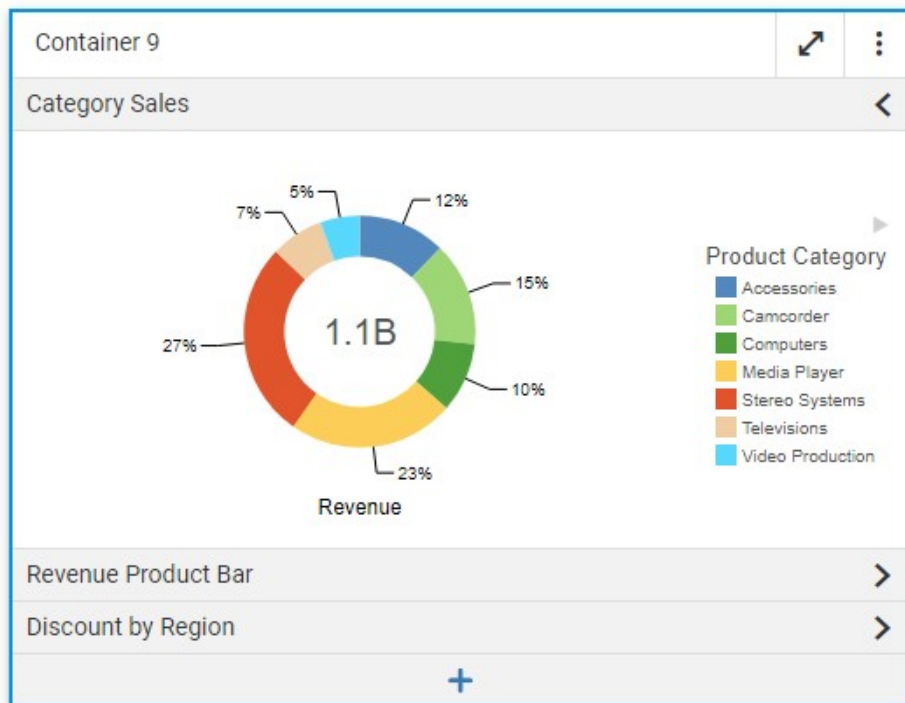
To combine multiple containers on a page, hold down the Ctrl key and select multiple containers by clicking the toolbar for each one. Next, right-click one of the containers, point to *Combine*, and select the type of multi-content container that you would like the containers to be merged into: either a tab, accordion, or carousel container.

This option is available for basic panel, tab, accordion, and carousel containers on a page. It is not available for link tile, grid, or panel group containers, nor for the Explorer widget, since these containers do not contain standard content items.

For example, the following image shows two separate containers on a page, before they have been combined.



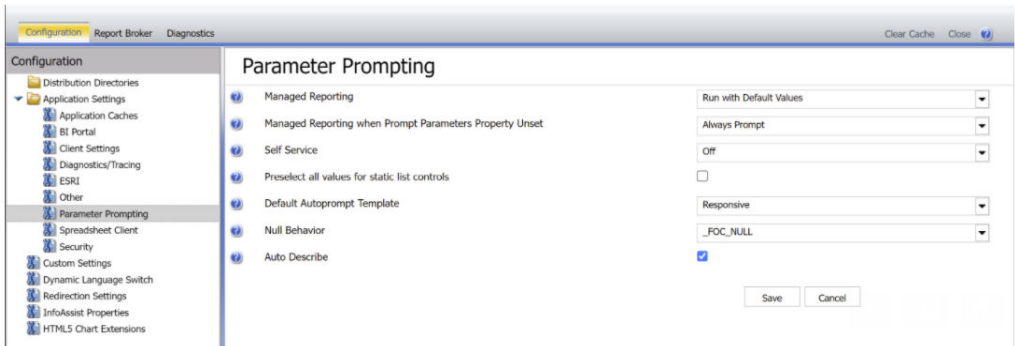
In the following image, the two containers have been combined into a single accordion container.



## Web Query Designer Autoprompt Page

Available as an alternative to the default Responsive Autoprompt page, the new Web Query Designer Autoprompt template provides the quick and intuitive automatic filtering behavior of autoprompt in a familiar layout that resembles a Web Query Designer page. When you run content that includes parameters without default values, an autoprompt page appears first, allowing you to provide values for these parameters before showing the content so that it displays correctly.

**Note:** This is configured in the Administration Console in the Parameter Prompting section under Default Autoprompt Template, as shown in the following image.



As in Web Query Designer pages, parameters with a list of values generate a drop-down list, parameters without a specified list or range of values generate an edit box, parameters for numeric fields with a specified range generate a slider, and parameters for date fields generate a calendar control. An example of the Web Query Designer Autoprompt page with a few automatically generated filter controls is shown in the following image.

The screenshot displays the Web Query Designer Autoprompt interface for a query named \*AdHocFex. The interface includes four filter controls arranged in a grid:

- Product Category:** A drop-down menu currently showing "Computers, Media Player".
- Customer Country:** A text input field.
- Revenue:** A horizontal slider control. The value is set to 2907715, with a range from 100 to 10000000.
- Sale Date:** A date range selector showing "Nov 1, 2020 - Dec 28, 2020".

At the bottom right of the filter section, there are two buttons: "Reset" and "Submit". Below the filters is a large, empty light gray rectangular area, likely intended for the query results or a chart.

When you run parameterized content using the Web Query Designer Autoprompt interface, you can make selections using the automatically generated filter controls, which adapt to present appropriate options, depending on the parameter format and a supplied range or list of values. Select filter values from the controls and click *Submit* to run your content. The chart, report, or other content loads with your parameter selections applied. You can then run the same content with multiple combinations of values to see how they affect your data set. To reset all controls to their default values, click *Reset*.

## Applying Conditional Styling to Reports in Web Query Designer

Conditional styling is a feature that applies unique styling to cells in a chart or report when their values meet specified criteria. This allows you to highlight values that are especially high or low, or are higher and lower than those in another field, making it easy to spot important information in your content. You can even use conditional styling to add drill down links to values that match your set criteria, allowing users who run the chart or report to access additional context and information pertaining to those records. The following image shows a report to which conditional styling has been applied. Revenue values higher than 5,000,000 have a bright green background, while revenue values lower than 500,000 have a bright pink background.

Store Name	Sale Quarter	Quantity Sold	Revenue
Amsterdam	1	21,262	\$6,341,648.05
	2	20,016	\$5,975,387.79
	3	21,254	\$6,422,633.53
	4	26,757	\$8,125,623.97
Anchorage	1	4,101	\$1,209,002.68
	2	3,919	\$1,189,866.39
	3	4,780	\$1,494,626.99
	4	6,105	\$1,832,458.65
Arlington	1	3,452	\$1,079,601.63
	2	3,390	\$1,040,887.98
	3	3,328	\$971,228.37
	4	4,194	\$1,333,370.47
Athens	4	1,191	\$373,357.59
Atlanta	1	6,564	\$1,980,785.12
	2	6,577	\$1,974,945.67
	3	6,297	\$1,937,744.32
	4	7,723	\$2,358,300.19
Bangalore	3	309	\$99,173.60
	4	2,479	\$755,082.32
Bangkok	4	115	\$42,720.78
Barcelona	3	629	\$190,813.70
	4	2,449	\$803,790.69
Beijing	4	120	\$35,823.95
Belfast	4	81	\$23,207.90
Berlin	1	21,012	\$6,291,658.12
	2	20,207	\$5,989,913.09
	3	20,221	\$6,087,656.34
	4	23,825	\$7,148,966.71
Boise	1	947	\$291,905.43
	2	971	\$282,355.56
	3	950	\$297,327.28
	4	1,213	\$375,700.38

Conditional styling is set on the field level. To enable conditional styling for a field, right-click the field and then click *Conditional Styling*. The Conditional Styling panel opens, where you can set the criteria that, when met, will trigger conditional styling.


You can create a condition that compares values in the selected field to another field or to a static value that you specify. For a chart, you can set the color of risers that meet the conditional styling criteria. For a report, you can set the font, text size, text color, font style, justification, and background color of conditionally styled cells. The available styling options for a report are shown in the following image.


**Text**

ARIAL ▼

**B** ***I*** **U**

☰ ☱ ☲ ☳

9 ▼ pt ▼ 

 **Background Color**

[+ Add drilldown to condition](#)

You can apply multiple conditions to the same field, and apply different styling properties to each one. This allows you, for example, to highlight particularly high and particularly low values in the same field.

Once you have set the conditions and the styling that you want to apply when those conditions are met, click *Apply*. You can then close the Conditional Styling panel. When you run the report, the values in the styled field that match your specified conditions have special styling applied, making them easy to identify at a glance.

## Setting a Time Zone for Date-Time Filters

In Web Query Designer, fields that include both the date and a timestamp, as opposed to just the date, are considered to have a date-time format. Date-time fields are considered a separate field type from regular date fields. The timestamp in a date-time value can be precise to the millisecond, microsecond, or nanosecond. When you filter a date-time field in a chart, report, or authored page in Web Query Designer, you are presented with the ability to change the time zone in addition to the regular date filtering options, allowing you to filter content based on your local time zone. This means that you can filter content for a date range based on local time, even when the data was recorded in a different time zone. You can set a time zone based on a location or on a UTC offset.

When you set a time zone as part of a date-time filter, content is filtered to show data, which may have been recorded in a different time zone, based on whether it would fall within the defined date range in your current time zone. For example, if the data was recorded in Greenwich Mean Time, which is UTC±0 during standard time, and you set the time zone for your date range to a location that uses Eastern Standard Time, which is UTC-5, then the filtered data begins at 5:00 AM on the first day of the range. This is because 5:00 AM in UTC ±0, which is used as the time zone where your data originated, is the same time as midnight in Eastern Standard Time, the time zone that you selected for the filter. The start time for the filtered date range is shifted based on the difference between the two time zones. The data values displayed in your content do not change when you change the time zone used in your filter, and are assumed to have been written from a time zone with an offset of UTC±0.

To apply a time zone to a your filter, drag a date-time field into the Filter toolbar or Filters bucket. In addition to the range options that are also available for date fields, a Time Zone option appears, with the default time zone selected, if one has been set. To set the time zone for a prompted filter, click the Time Zone menu, as shown in the following image.

#### Time Zone

Choose option >

#### Time Period

Custom >

Previous month and current

Previous quarter and current

Previous year and current

YTD

Last 5 quarters

Last 13 months

Last 9 quarters

Last 25 months

Prior YTD

Last 7 days

Last 30 days


Cancel

OK

 Reset filter

To set the time zone for a static filter, click the *Time Zone* option, as shown in the following image.

Values shown in the range are based on a subset of data. You can enter values manually from the full data set.


Time Zone Choose option 

Compare to ☒ Value ☐ Field

Select values **Select ranges** **Select from data** **Select from file** **Enter manually**

---

Type ☒ Single date ☐ Range of dates


On or after  Mar 14, 2015; 5:15:05.020AM

To select a time zone based on a location, on the Time zones tab of the Time Zone dialog box, first select a country or territory from the Country drop-down list. You can start typing the name of a country or territory to navigate to it more quickly. Once you select a country or territory, a list of available location-based time zones in that country appears, as shown in the following image.

☒ Apply a time zone

**Time zones** **Time Offsets (UTC)**

Country

Indonesia 

Jakarta

Jayapura

Makassar

Pontianak

Select a location and then click *OK* to apply it.

Time zones based on locations automatically apply daylight savings, depending on the time of year. For example, the North American Eastern Time zone has a UTC offset of UTC-5 during standard time, and a UTC offset of UTC-4 during daylight time.

To select a UTC offset instead of a location-based time zone, click the *Time Offsets (UTC)* tab and select an option. Click *OK* to apply the new time zone.

Once you set your time zone, select a date range for your filter and apply it. Your content refreshes, and the hour at which your date range starts and ends is adjusted based on the selected time zone.

## Changing the Size of Charts and Risers

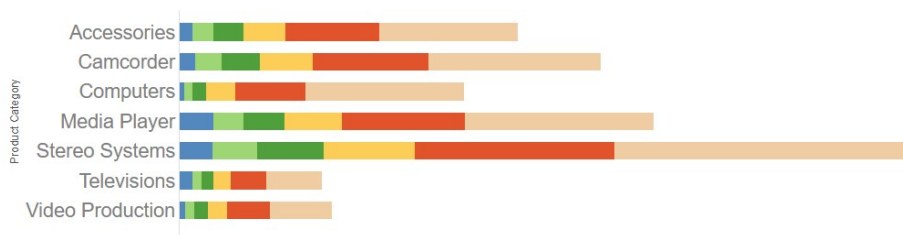
In Web Query Designer, by default, when you create a chart, it fills the frame in which it is run, and risers and other sections within the chart are sized accordingly. This makes the chart flexible, allowing it to run in large and small containers alike without sacrificing the appearance and legibility of the chart. This automatic sizing also means that you do not need to manually set any size properties for the chart.

However, you also have the option to set a consistent size for the chart, if you prefer. You can also determine the width of bars in a bar chart as a percentage of the riser area, and set the width of risers in a bar, area, or line chart, based on the font size of the ordinal axis, or on an exact value that you specify.

You can set a static height and width for a chart, so that it remains the same size no matter where it is loaded. This can be useful, for example, if you want to add the chart to a PowerPoint presentation or PDF, and want to leave room for other content on each slide or page. To set the size of your chart, on the *Format* tab, select *General* from the quick access menu. In the *Other* section, notice that the *Fit to container* option is set to *Automatic*, by default, so that the chart automatically resizes to fill its container. To specify a size for the chart, change this setting to *Manual*, and then provide a width and height for the chart, in pixels. As you set these dimensions, you can select the *Lock Aspect Ratio* check box so that as you change the width or height, the other dimension changes as well, to maintain the same aspect ratio.

In bar, area, and line charts, values are represented by the height of a bar, area, or line at different points along the ordinal axis, which displays different dimension value labels. These points are generically called risers. You can set the width of these risers to fill the width of the chart, resize them based on the font size of the ordinal axis labels, or resize them manually by specifying a number of pixels.

To access these options, on the *Format* tab, select *Series*, and leave *All series* selected. By default, the riser width automatically adjusts based on the width of the chart to fill it evenly. In the *Shape* section, change the *Riser Width* property to *Tie to ordinal font size* to have the riser width increase with the size of the dimension labels on the ordinal axis of the chart. This is most useful in charts that are oriented horizontally, so the risers and labels occupy roughly the same amount of vertical space. To change the font size, on the *Format* tab, select *Axis* from the quick access menu and then select *X Axis* from the axis drop-down menu. The *Labels* section includes the options to change the font size of the axis labels. In the following image, the font size was increased to 18, and, since the *Riser Width* property was set to *Tie to ordinal font size*, the width of each riser has also increased accordingly.



You can also set the width of each riser in pixels. Set the *Riser Width* property to *Manual* and then use the slider to set the riser width. If the riser width is too wide to fit all risers in the chart frame, a scrollbar is added.

In bar charts, you can also set the percentage of the riser area that each bar or set of side-by-side bars occupies, using the slider for the *Riser Spacing* property. Reducing this value increases the amount of space between bars.

## Styling Reports in Web Query Designer

You can style different areas of a report to highlight or call attention to certain groups of values, or to differentiate them to make your report easier to follow. Web Query Designer provides a new set of report styling options that allow you to apply text and cell styling, as well as other properties, to the entire report, or to specific areas within it.

When you create a report, open the *Format* tab and select an option from the quick access menu to select the area of the report that you want to style. *General* is selected by default. Styling changes made using the General options affect the entire report. Alternatively, you can apply styling at the column, column group, column total, or row total level. You can also change page layout options such as page size and orientation. When you apply styling to columns, column groups, column totals and subtotals, or row totals, you can choose to style all fields in that area of the report, or a single field. You can also choose whether to style titles, data values, or both. Styling the titles and data values separately allows you to distinguish them from each other and call attention to different information in the report.

Styling options include text and cell formatting, as well as other options specific to certain areas of the report. You can change the font, font style, alignment, size, and text color. These options are shown in the following image.

The image shows a 'Text' formatting panel with the following controls:

- A font family dropdown menu currently set to 'ARIAL'.
- Three buttons for font style: **B** (Bold), *I* (Italic), and U (Underline).
- Three buttons for text alignment: left-aligned (≡), center-aligned (≡), and right-aligned (≡).
- A font size input field showing '9' with a dropdown arrow.
- A unit dropdown menu currently set to 'pt'.
- A black color swatch for text color.

You can format cells in different areas of a report by changing the background color and margins. You can set separate background colors for the titles and data values in the entire report, columns, across columns, column totals and subtotals, and row totals. When you select *General* or *Columns* you can apply banding to the data values in your report. Banding allows you to visually separate rows or sort values in a report with alternating background colors that repeat throughout it. You can set these colors to alternate with every row, or with every new value in the selected sort field. The following image shows a report with yellow, white, blue, and white bands that alternate with each value.

Sale Year	Sale Quarter	Product Category	Quantity Sold	Revenue	Gross Profit
2015	1	Accessories	4,580	\$1,125,123.02	\$347,865.02
		Camcorder	3,873	\$1,225,199.72	\$406,657.72
		Computers	1,343	\$302,839.60	\$117,086.60
		Media Player	11,717	\$3,427,197.08	\$925,302.08
		Stereo Systems	15,000	\$3,320,151.66	\$1,072,105.66
		Televisions	3,925	\$1,566,904.80	\$385,015.80
	2	Video Production	1,720	\$477,391.46	\$154,764.46
		Accessories	4,662	\$1,165,106.04	\$362,612.04
		Camcorder	3,812	\$1,244,408.92	\$409,405.92
		Computers	1,235	\$285,463.66	\$110,264.66
		Media Player	11,618	\$3,268,394.69	\$894,116.69
		Stereo Systems	13,259	\$3,026,456.46	\$948,934.46
		Televisions	3,748	\$1,577,021.42	\$387,599.42
		Video Production	1,731	\$480,282.56	\$149,265.56

The following image shows bands of the same colors that alternate with each different value in the Sale Quarter field.

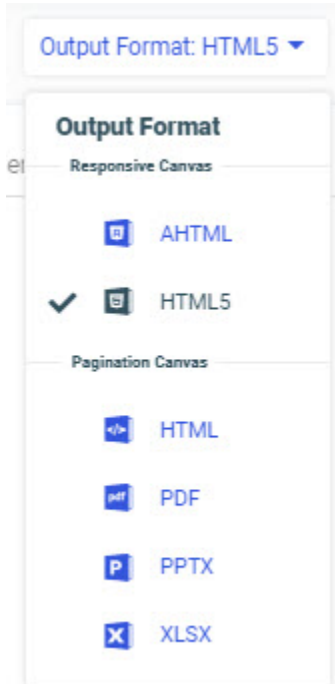
Sale Year	Sale Quarter	Product Category	Quantity Sold	Revenue	Gross Profit
2015	1	Accessories	4,580	\$1,125,123.02	\$347,865.02
		Camcorder	3,873	\$1,225,199.72	\$406,657.72
		Computers	1,343	\$302,839.60	\$117,086.60
		Media Player	11,717	\$3,427,197.08	\$925,302.08
		Stereo Systems	15,000	\$3,320,151.66	\$1,072,105.66
		Televisions	3,925	\$1,566,904.80	\$385,015.80
		Video Production	1,720	\$477,391.46	\$154,764.46
	2	Accessories	4,662	\$1,165,106.04	\$362,612.04
		Camcorder	3,812	\$1,244,408.92	\$409,405.92
		Computers	1,235	\$285,463.66	\$110,264.66
		Media Player	11,618	\$3,268,394.69	\$894,116.69
		Stereo Systems	13,259	\$3,026,456.46	\$948,934.46
		Televisions	3,748	\$1,577,021.42	\$387,599.42
		Video Production	1,731	\$480,282.56	\$149,265.56
	3	Accessories	4,783	\$1,270,872.45	\$390,073.45
		Camcorder	4,346	\$1,536,974.19	\$484,041.19
		Computers	1,659	\$349,989.27	\$137,694.27
		Media Player	12,688	\$3,585,613.72	\$976,931.72
		Stereo Systems	10,607	\$2,738,062.03	\$817,195.03
		Televisions	4,301	\$1,796,316.25	\$443,139.25
		Video Production	1,909	\$557,392.58	\$170,352.58
	4	Accessories	6,127	\$1,478,196.06	\$458,077.06
		Camcorder	5,691	\$1,871,848.70	\$608,214.70
		Computers	2,493	\$503,542.66	\$195,915.66
		Media Player	14,943	\$4,699,372.86	\$1,250,601.86
		Stereo Systems	14,541	\$3,790,147.58	\$1,124,739.58
		Televisions	4,431	\$1,540,975.20	\$373,803.20
		Video Production	2,675	\$753,824.57	\$232,170.57

These banding options allow you to visually group or separate values as needed.

These options and others allow you to flexibly customize the styling in your report, allowing you to separately style different sections of it as needed.

## Paginated Canvas in Web Query Designer

When creating charts and reports, you can change the type of file that is generated when you run your content, by changing the output format. To change the output format, use the Output Format menu, which is now available on the Visualization toolbar in Web Query Designer, so that it is easier to access. The Output Format menu is shown in the following image:



The following output formats are available for charts and reports in Web Query Designer:

- ☐ AHTML
- ☐ HTML5
- ☐ HTML
- ☐ PDF
- ☐ PPTX
- ☐ XLSX

The PDF, PPTX, and XLSX output formats generate PDF documents, PowerPoint presentations, and Excel spreadsheets, respectively. Since these are all paginated file types, a paginated canvas has been introduced to represent the scrolling navigation behavior of the run-time output.

The AHTML output format produces browser-based output that provides numerous run-time interaction options, and includes a page navigation toolbar for reports. Therefore, charts and reports with the AHTML output format use a responsive canvas that provides interactive options, such as tooltips and on-canvas filtering, at design time, and can be navigated using the page navigation toolbar instead of scrolling.

The HTML output format generates browser-based output with some interaction options, but is also paginated, and can be navigated by scrolling through the content in your browser. As a result, two HTML options are available. The HTML5 output format provides the responsive canvas at design time, while the HTML output format provides the paginated canvas. This gives you the ability to choose your preferred canvas style as you create your content. When you run your content, the HTML5 and HTML output formats are identical.

## Changing the Format of Row Totals in a Report

When you add row totals to a report in Web Query Designer, they are evaluated and displayed differently depending on whether across fields are present. If one or more dimension fields have been added to the Columns bucket to create across columns, then measure columns are repeated for each across field value. Consequently, when row totals are added to the report, they are evaluated separately for each measure field, resulting in a separate row total column for each measure. When you add row totals to a report without across fields, on the other hand, the values of all measure fields are summed to generate a single column of row totals. Since the measure fields may have different field formats, you can change the format of the row totals in a report without across fields, ensuring that they display the total values in a way that is useful and logical, instead of simply inheriting the format from one of the measure fields.

To add row totals to a report, on the Settings tab, in the Content Settings area, click *Enable row totals*. Once selected, the *Edit Data Format* option becomes available. Click it to open a format editor where you can change the numeric format used by the row totals. You can display row total values as integers, decimal values, monetary values, or percentages, depending on which of these types of values best represents the summed data in your report. You can also control how many characters to display in total and after the decimal point, how negative numbers display, whether to show thousands separators and leading zeroes, and which currency symbol to use, if applicable. The following image shows a report in which the row totals use commas (,) as thousands separators and have one digit after the decimal point.

Country	Item	Production	Yield	TOTAL
Bulgaria	Apples	13134626	6533580	19,668,206.0
	Apricots	1375912	2895364	4,271,276.0
	Blueberries	1071	679036	680,107.0
	Cherries	2490576	4466702	6,957,278.0
	Cherries, sour	874412	4178366	5,052,778.0
	Peaches and nectarines	4064751	5165711	9,230,462.0
	Pears	3212457	9628981	12,841,438.0

## Field List Parameters in Web Query Designer

Field list parameters are a powerful tool that allows you to provide users with a selection of fields that they can use at run-time to build charts and reports within a framework that you provide. Field list parameters can be added to buckets in place of fields in a chart or report. At run time, users select the fields that they want to display, giving them the power to choose the data that is represented by and displayed in your content. You can complement these field list parameters with fields that always appear in your content, providing a mix of customizable and static content. Field list parameters can be single select or, if the bucket allows multiple fields, multi-select, providing even more flexibility. Field list parameters are a key component of InfoApps, which are pages in which users can select the fields that display.

When you add a field list parameter, it becomes a field container into which you can add one or more measure and dimension fields. Create a new parameter by clicking *Add Parameter Field List* on the Settings tab. The Add Parameter Field List dialog box opens, as shown in the following image.

**Add Parameter Field List** ✕

Prompt name

Parameter List Name 1

Bucket Type

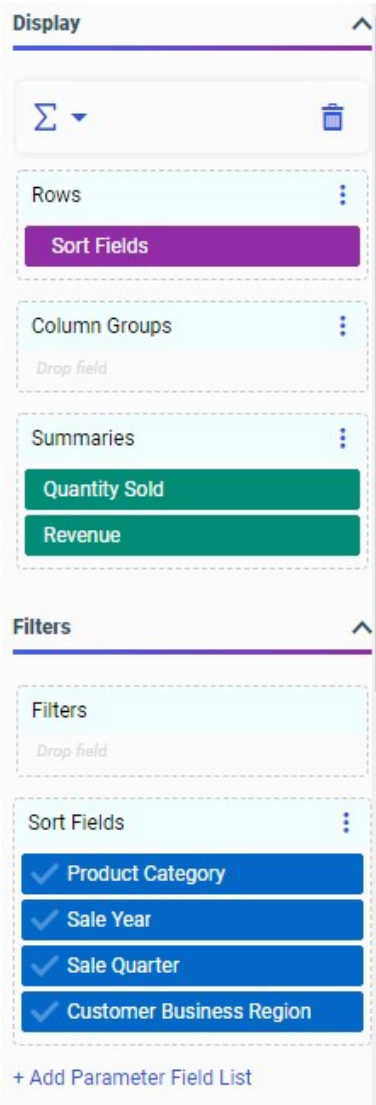
Control type

☒ Single select ☐ Multi-select

Cancel Save

Here, you can supply a prompt name, used as a label for the field list control and bucket, choose which bucket the field list selections should populate, and determine whether the field list parameter is single select or multi-select. When you click **Save** to create the parameter, a field list parameter placeholder appears in the location selected from the **Bucket Type** menu, and a new field list parameter bucket appears below the **Filters** bucket. The placeholder is a purple color to distinguish it from regular measure and dimension fields.

To add fields to the field list parameter, drag them into the new field list parameter bucket. These fields should be of a field type that can be added to the bucket to which the field list parameter was added. The following image shows the buckets for a report, in which the Product Category, Sale Year, Sale Quarter, and Customer Business Region fields have been added to a field list parameter, and the parameter itself has been added to the Rows bucket.



You can create multiple field list parameters, and add them to buckets together with regular fields that will always appear in your content, allowing you to have a mix of permanent and user selected fields in your charts and reports. Just like regular fields, field list parameters can be reordered relative to other fields and field list parameters in a bucket, giving you some control over the sort order of your content, even when user selected fields are used. Parameters can be added to any bucket in a report, and in any chart bucket, with the exception of the Multi-graph bucket.

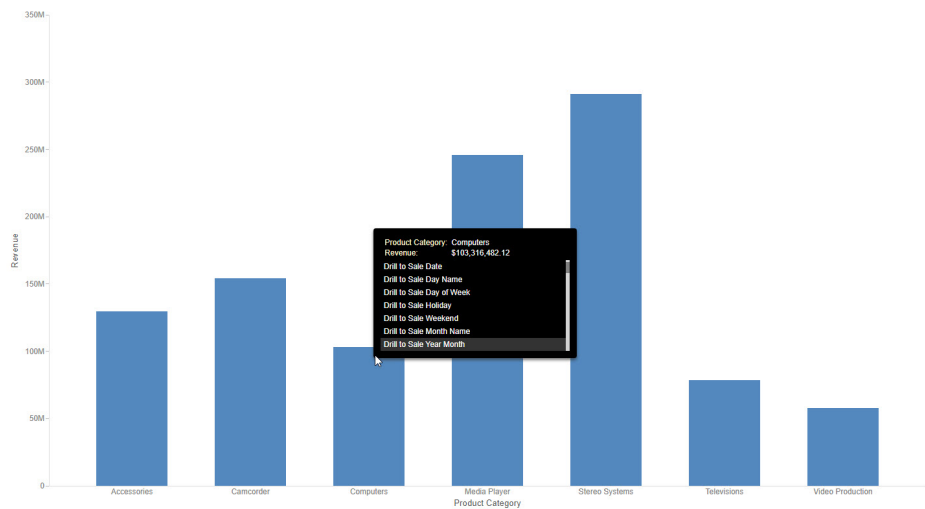
When you run a chart or report with field list parameters, you can select the fields with which each one should be populated, using standard filter controls for alphanumeric values. If the chart or report is run stand-alone, these controls are presented in the autoprompt interface. If the chart or report is added to an assembled page, you can create filter controls for each field list parameter, to allow users to select fields for each one. The following image shows a page with controls for multiple field list parameters.



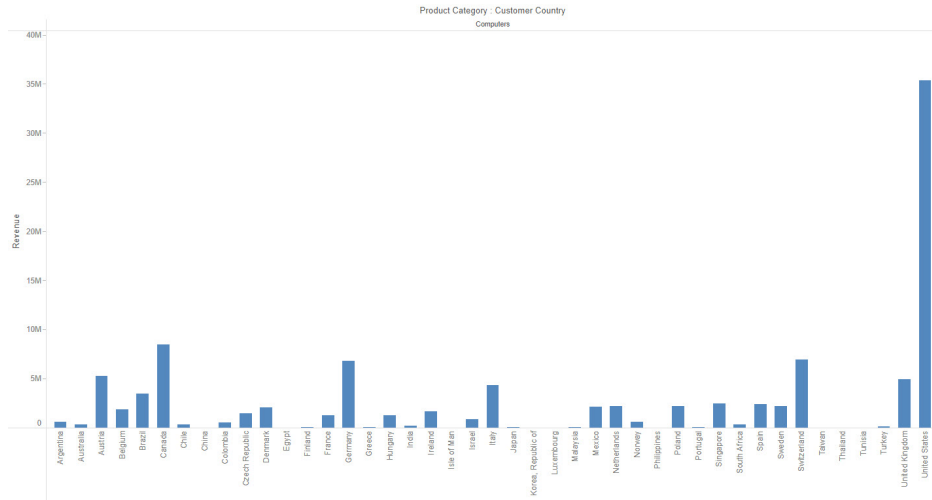
## Analyze Field Relationships With Drill Anywhere

In Web Query Designer, Auto Drill is a feature that allows you to drill into values from fields that are part of a data hierarchy, to see which subcategories within that hierarchy contribute to the values that you drill into, and to what extent. Drill Anywhere, meanwhile, resembles an enhanced version of Auto Drill. It does not require the fields in your initial content to be part of a data hierarchy, and it allows you to drill to any field in your data source, providing a powerful tool to explore relationships between values in different fields. Instead of drilling from a dimension field to its children within a pre-defined data hierarchy, with Drill Anywhere, you drill into a sort value to see which dimension values from the field that you select constitute subsets of that value. The resulting content is filtered by the value that you drilled into.

With Drill Anywhere, you can investigate the dimension values that contribute to the value of the selected riser in a chart, or row of a report. For example, the following image shows a simple bar chart with revenue aggregated by product category. Drill Anywhere is enabled for the chart, so target fields appear in the tooltip.



If you point to the riser for the product category of Computers and click *Drill to Customer Country* in the tooltip, then the resulting chart shows information about how much revenue was generated by computer sales in each country, as shown in the following image.



To enable Drill Anywhere in your content, on the Settings tab, in the Content Settings area, click *Drill Anywhere*. When you run your content, the fields available as drill targets appear in the tooltips, in the Drill to menu. In reports, you can access these tooltips by clicking a hyperlink. Hyperlinks for Drill Anywhere in reports are available for all sort fields, allowing you to substitute a field of your choice for row or column group fields. In charts, you can access tooltips by pointing to a riser, allowing you to replace the sort field value that it represents.

You can use Drill Anywhere to drill through multiple levels, and drill through multiple different sort fields in the same content item. Once you have used Drill Anywhere, you can return to a previous drill level or to the original content using breadcrumb links. You can also return to the original state of the content item by selecting *Reset* from the tooltip.

Drill Anywhere is only available for stand-alone content items, when they are run on their own or when added to a page assembled from external content.

### Prerequisites

The following topic describes prerequisites for Db2 Web Query 2.3 HF5.

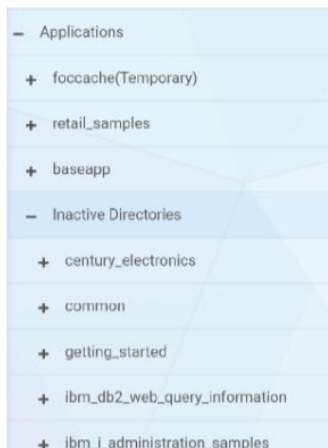
- ☐ Db2 Web Query 2.3.0 is supported on IBM i 7.3, 7.4, and 7.5.
- ☐ For 2.3.0, Windows 10 is required for the Windows client interfaces.
- ☐ The 5770JV1 option 17 - Java SE 8 64-bit Java option must be installed.
- ☐ Additionally, on IBM i 7.3, one or both of the following PTFs must be applied:
  - ☐ 5770JV1 PTFs SI62011 and SI61994
  - ☐ Java group PTF SF99725 level 3 or higher

### Changes in Behavior

The following topics describe changes in behavior for Db2 Web Query 2.3 HF5.

#### Inactive Directories

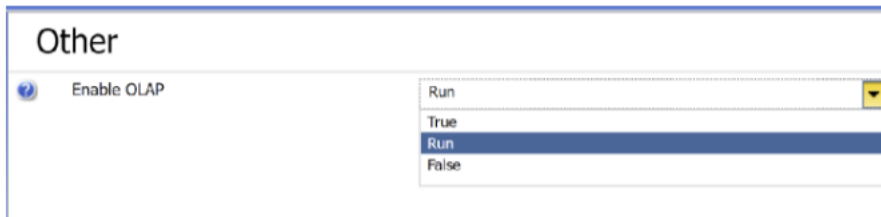
By default, only directories that are in the application path will display when accessing the Application Directories page. To display all the directories, regardless of whether they are in the application path, click *Manage*, select *Preferences*, check the *Show Also Applications not in APPPATH* box, and then click *Update*. A new folder, *Inactive Directories*, as shown in the following image, will appear that contains the remaining directories.



**Note:** Inactive Directories refers to those directories that are not in the application path.

## OLAP Options

In the Administration Console, the following options are available to enable OLAP, as shown in the following image.



**True.** Allows OLAP to be used in reports and shows the OLAP setting in InfoAssist.

**Run.** Allows OLAP to be used in reports, but does not show the OLAP setting in InfoAssist. Run is the default value.

**False.** Does not allow OLAP to be used in reports and does not show the OLAP setting in InfoAssist.

## Ending the Automated Insights Trial

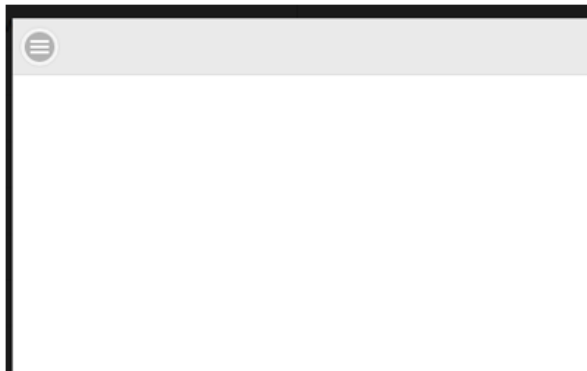
The limited preview of the Automated Insights functionality has ended. Insights is no longer available in Web Query Designer and the icon does not show up. We are continuing to explore integrating machine learning models into Db2 Web Query.

## Known Issues

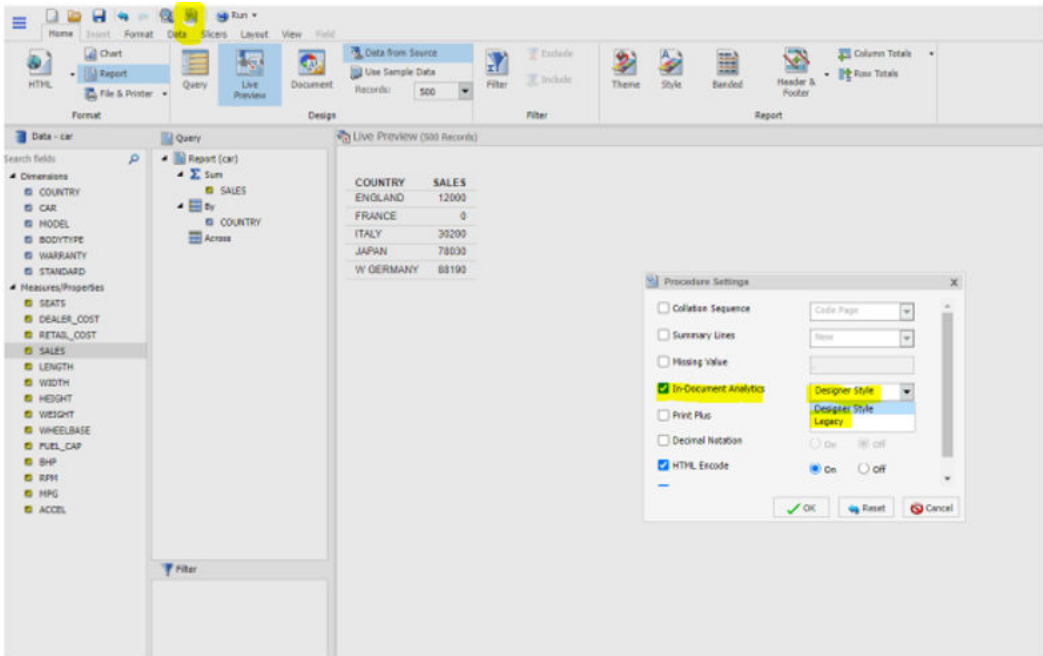
The following topics describe known issues in Db2 Web Query.

Active Reports

When running an active report, the report may appear to load, and then show up blank, as shown in the following image.

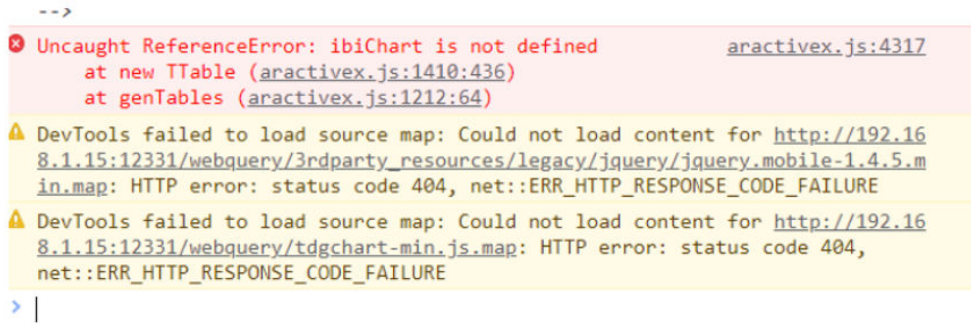


This occurs when a combination of Analytic Document options are enabled, the Advanced Tools option is not enabled, and the Legacy View for In-Document Analytics option is selected in the Procedure Settings dialog box, as shown in the following image.



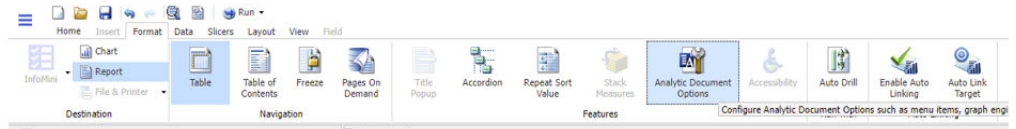
To verify the cause of the blank report, open the Developer Tools in the browser and navigate to the Console tab.

If you see the error *Uncaught Reference Error: ibiChart is not defined*, as shown in the following image, implement the described workaround.

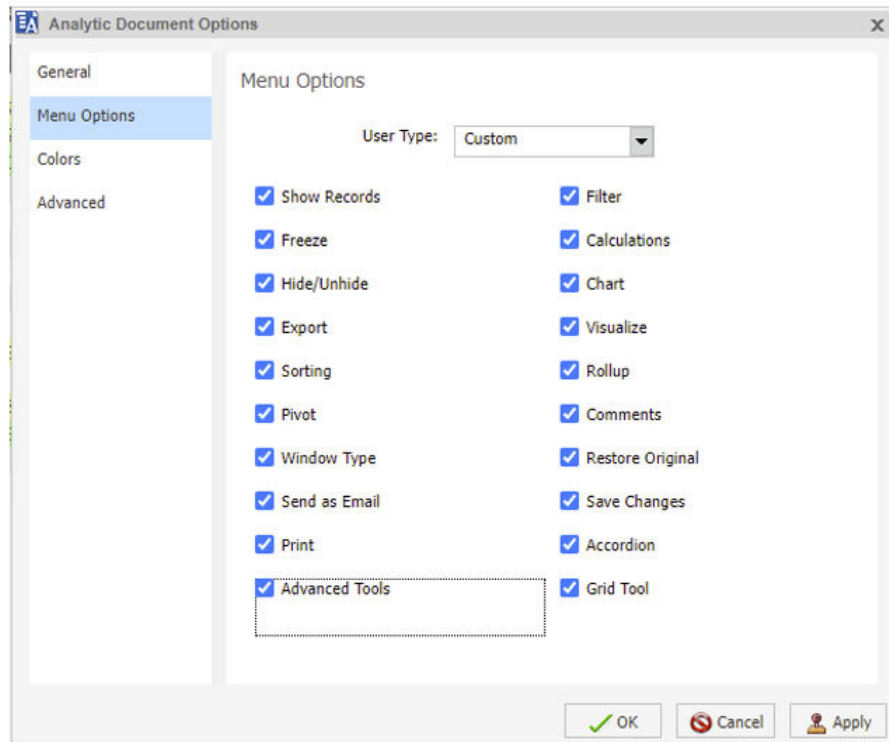


### Workaround

1. Edit the report in InfoAssist.
2. Select the *Format* tab and then click *Analytical Document Options*, as shown in the following image.



3. Select *Menu Options* and then select *Advanced Tools*, as shown in the following image.



4. Click *OK* and save the report.

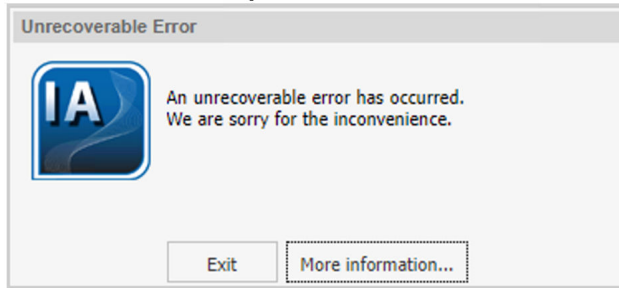
## Developer Workbench

This section addresses the known issues for Developer Workbench.

- ❑ New SQL reports created with the SQL Report Wizard in Developer Workbench will fail to run with the following error:

**(FOC205) THE DESCRIPTION CANNOT BE FOUND FOR FILE NAMED: FOCCACHE/SQLOUT**

New and existing SQL reports created with the SQL Report Wizard cannot be edited in Developer Workbench and will fail with the following error:



**Note:** Existing, unedited SQL reports will continue to run.

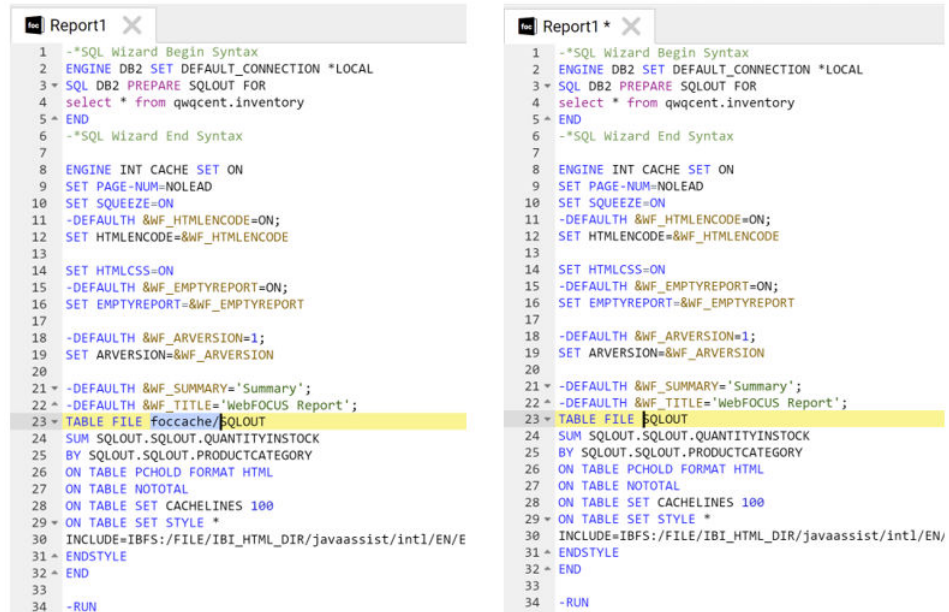
### Workarounds:

- ❑ Alternative and more strategic methods for auto generating a synonym and report over an SQL statement or procedure can be found in the following white paper:

<http://ibm.biz/db2wq-sql-usage-whitepaper>

- ❑ A Web Query administrator can text edit the report from the Web Query home page and remove *foccache/* from the *TABLE FILE foccache/SQLOUT* line, so that the resulting line is instead *TABLE FILE SQLOUT*.

The following image shows an example SQL report before and after the change.



- ❑ Web Query developers in folder-dba groups cannot create or edit synonyms from the Developer Workbench tree.

**Workaround:** Use the Data Management Console in Developer Workbench or use the Reporting Server Console from the browser.

## Db2 Web Query Designer

This following is a known issue for Db2 Web Query Designer.

- ❑ Db2 Web Query Designer does not yet support running a chart with an output format that embeds graphics, such as PDF and Excel. When creating charts with embedded graphics formats, you can use InfoAssist, available from the Home Page.

## REST-Based Application Extension (WQRAX)

This section addresses the known issues for the REST-Based Application Extension (WQRAX).

- ❑ Certain types of reports, including visualizations which utilize some maps, will not render properly when invoked through 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.

**Workaround:** Either edit and save the HTML file in the Developer Workbench HTML canvas, which will make the changes automatically, or edit and save the HTML dashboard 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

- ❑ The Upload Wizard fails in BI portal (Legacy mode).
- ❑ 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.

- ❑ 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 Metadata Wizard fails in BI portal (Legacy mode).
- ❑ 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

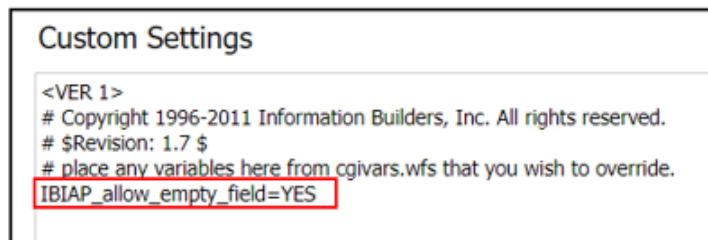
This section addresses the known issues for InfoAssist.

- ❑ The 2014 Demographic layers do not render on an ESRI map.
- ❑ At run time, a report will fail if empty filter values are entered for simple parameter prompts. To resolve the issue, the Web Query administrator can configure a setting to allow empty values, as follows.

1. In the Administration Console, on the *Configuration* tab, click *Custom Settings*.
2. To permit the use of empty fields in filter prompts, type the command:

```
IBIAP_allow_empty_field=YES
```

Type it under the final comment statement at the top of the Custom Settings text box or under the most recent custom setting entry, as shown in the following image.



3. To store the settings in an encrypted format, select the *Encrypt* check box.
4. When your configuration is complete, click *Save*.
5. When you receive a confirmation message, click *OK*.
6. When the Custom Setting page clears, click *Custom Settings* under the Application Settings folder to see your updated comments, settings, or commands in the Custom Settings text box.

7. If you later decide to prohibit the use of empty fields, change the command to:

```
IBIAP_allow_empty_field=NO
```

Alternatively, you can delete the following command from the Custom Settings page or convert it to a comment if you plan to reactivate this feature.

```
IBIAP_allow_empty_field=YES
```

8. When your configuration is complete, click Save.

- ☐ If you run a request with output to a Db2 file, and you see the following error message, `(FOC36219) AN ERROR OCCURRED WHEN OPENING FILE: HOLD MASTER`, then open the report in InfoAssist and re-save it. This removes the internal directive to save the metadata to an explicit location, as it is not needed in this context.
- ☐ The German translation of the visualization filter box for BLANK does not match the run-time option.

## JD Edwards Adapters

This section addresses the known issue 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 issue 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.

## Spreadsheet Client

This section addresses the known issue for Spreadsheet Client.

- ❑ The data source is not correct when creating a report using metadata that is under the user's top-level folder. By default, Spreadsheet Client shows metadata in the baseapp folder.
- ❑ HTML report data is not written into Excel.
- ❑ Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.

## National Language Support

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

- ❑ When the Reporting Server runs in CCSID 285, HTML dashboards fail with JavaScript errors if running in a Firefox or Internet Explorer browser. This is caused by an encoding problem in the IBM Websphere Application Server plugin. To resolve the problem, apply the following PTF for your release level of product 5770DG1:
  - ❑ 7.3: SI69363
- ❑ Some of the Retail Sample reports will not run in NLS or DBCS languages. This issue will be resolved in an upcoming PTF.

## 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. To create Query/400 synonyms, right-click a folder and select the *Metadata New* option.
- ❑ Creating a synonym for a Query/400 file fails when it is launched from a subfolder.

## Browser Information

The following topics describe information for the available web and mobile browsers for Web Query 2.3.

## Web Browsers

The following browsers are certified for Web Query and Developer Workbench.

- ❑ Microsoft Edge™ 92
- ❑ Google Chrome™ 92
- ❑ Mozilla Firefox® 90

## Release 2.3 Notes

- ❑ Simple HTML Web Query reports can be viewed on any browser.
- ❑ Chart/Graph request notes:
  - ❑ *Browser-generated graphs* refer to graphs that are rendered inside the browser using HTML5 (and JavaScript). Browser-generated graphs are utilized in both standard HTML5 output ("FORMAT JSCHART"), and in Active Technologies ("FORMAT AHTML").
  - ❑ *Server-generated graphs* refer to 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
- ☐ 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 when distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are base64 encoded within the generated .htm file.
- ☐ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the browser's configuration information on how to change the Application Options settings for the relevant content types so that the browser will automatically use Adobe Reader.
- ☐ Adobe Reader support:
  - ☐ Acrobat Reader DC is certified
  - ☐ Adobe XI is supported
  - ☐ Adobe X is supported
- ☐ If you are using Internet Explorer® 11 on a Windows® 2012 R2 OS and you attempt to run an object (such as a report or chart in InfoAssist), Internet Explorer 11 opens it in a new window instead of targeting the object to a specific frame. For example, in InfoAssist, the New Window Runtime opens a new browser window that shows the running image, which then replaces that page with the output. Since Internet Explorer 11 does not allow the replacement of that window, it opens a new window instead.

This browser limitation can be remedied by an administrator. For more information, see <https://social.msdn.microsoft.com/Forums/ie/en-US/a5c294e2-e407-491d-ba6a-b7f7edbcabaf/ie11-cant-post-form-data-to-specific-frame-or-window-dialog-opened-via-windowopen?forum=iwebdevelopment>

## Mobile Browser Information

If you are planning to use Web Query on mobile devices, note the following regarding mobile browser support. If you will be using Web Query on the Windows operating system, see the Web Browser support information.

**Note:** Browsers released after the production date of a Web Query version are subject to certification.

InfoAssist is not supported on mobile devices.

The following devices were used in testing Web Query 2.3:

- ❑ iOS 12
- ❑ Android 8.0, 7.1
- ❑ Db2 Web Query mobile app

Usage Considerations:

- ❑ Report Broker interfaces are supported on tablets.
- ❑ HTML reporting Table of Contents (BYTOC) feature is not supported.
- ❑ Viewing PDF, Excel, and PowerPoint documents may require a third-party helper app.
- ❑ To open active report content, JavaScript needs to be enabled in your web browser. On mobile devices, please use the Db2 Web Query mobile app. If not installed, download it from the App Store for iOS devices or from the Google Play Store for Android devices.



This documentation describes advisories, prerequisites, known issues, web browser support, and mobile support for the January 2022 - 2.3 HF4 release.

**Note:** The January 2022 HF4 release is a maintenance release only. No new features were introduced in this hotfix.

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:

- ☐ [Advisories](#)
  - ☐ [Prerequisites](#)
  - ☐ [Known Issues](#)
  - ☐ [Browser Information](#)
- 

## Advisories

The following topic describes an advisory for Db2 Web Query.

### Vulnerability in Apache Log4j affects IBM Db2 Web Query for i

There is a vulnerability in Apache Log4j, as described by CVE-2021-45105. Apache Log4j is used by Db2 Web Query for i for generating logs and diagnostic traces in some of its components. This hotfix addresses the vulnerability. For more details, refer to the Security Bulletin at:

<https://www.ibm.com/support/pages/node/6537454>

## Prerequisites

The following topic describes prerequisites for Db2 Web Query 2.3 HF4.

- ☐ Db2 Web Query 2.3.0 is supported on IBM i 7.3 and 7.4.
- ☐ For 2.3.0, Windows 10 is required for the Windows client interfaces.
- ☐ The 5770JV1 option 17 - Java SE 8 64-bit Java option must be installed.

- ❑ Additionally, on IBM i 7.3, one or both of the following PTFs must be applied:
  - ❑ 5770JV1 PTFs SI62011 and SI61994
  - ❑ Java group PTF SF99725 level 3 or higher

## Known Issues

The following topics describe known issues in Db2 Web Query.

### Db2 Web Query Designer

The following is a known issue for Db2 Web Query Designer.

- ❑ Db2 Web Query Designer does not yet support running a chart with an output format that embeds graphics, such as PDF and Excel. When creating charts with embedded graphics formats, you can use InfoAssist, available from the Home Page.

### REST-Based Application Extension (WQRAX)

This section addresses the known issues for the REST-Based Application Extension (WQRAX).

- ❑ Certain types of reports, including visualizations which utilize some maps, will not render properly when invoked through 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.

**Workaround:** Either edit and save the HTML file in the Developer Workbench HTML canvas, which will make the changes automatically, or edit and save the HTML dashboard 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

- ❑ The Upload Wizard fails in BI portal (Legacy mode).
- ❑ 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.

- ❑ 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 Metadata Wizard fails in BI portal (Legacy mode).
- ❑ 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.

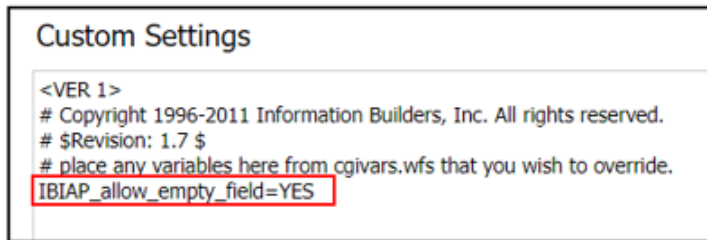
- ❑ The 2014 Demographic layers do not render on an ESRI map.

- ❑ At run time, a report will fail if empty filter values are entered for simple parameter prompts. To resolve the issue, the Web Query administrator can configure a setting to allow empty values, as follows.

1. In the Administration Console, on the *Configuration* tab, click *Custom Settings*.
2. To permit the use of empty fields in filter prompts, type the command:

```
IBIAP_allow_empty_field=YES
```

Type it under the final comment statement at the top of the Custom Settings text box or under the most recent custom setting entry, as shown in the following image.



3. To store the settings in an encrypted format, select the *Encrypt* check box.
4. When your configuration is complete, click *Save*.
5. When you receive a confirmation message, click *OK*.
6. When the Custom Setting page clears, click *Custom Settings* under the Application Settings folder to see your updated comments, settings, or commands in the Custom Settings text box.
7. If you later decide to prohibit the use of empty fields, change the command to:

```
IBIAP_allow_empty_field=NO
```

Alternatively, you can delete the following command from the Custom Settings page or convert it to a comment if you plan to reactivate this feature.

```
IBIAP_allow_empty_field=YES
```

8. When your configuration is complete, click *Save*.
- ❑ If you run a request with output to a Db2 file, and you see the following error message, (FOC36219) AN ERROR OCCURRED WHEN OPENING FILE: HOLD MASTER, then open the report in InfoAssist and re-save it. This removes the internal directive to save the metadata to an explicit location, as it is not needed in this context.

- ❑ The German translation of the visualization filter box for BLANK does not match the run-time option.

## JD Edwards Adapters

This section addresses the known issue 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 issue 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.

## Spreadsheet Client

This section addresses the known issue for Spreadsheet Client.

- ❑ The data source is not correct when creating a report using metadata that is under the user's top-level folder. By default, Spreadsheet Client shows metadata in the baseapp folder.

- ❑ HTML report data is not written into Excel.
- ❑ Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.

## National Language Support

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

- ❑ When the Reporting Server runs in CCSID 285, HTML dashboards fail with JavaScript errors if running in a Firefox or Internet Explorer browser. This is caused by an encoding problem in the IBM Websphere Application Server plugin. To resolve the problem, apply the following PTF for your release level of product 5770DG1:
  - ❑ 7.3: SI69363
- ❑ Some of the Retail Sample reports will not run in NLS or DBCS languages. This issue will be resolved in an upcoming PTF.

## 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. To create Query/400 synonyms, right-click a folder and select the *Metadata New* option.
- ❑ Creating a synonym for a Query/400 file fails when it is launched from a subfolder.

## Browser Information

The following topics describe information for the available web and mobile browsers for Web Query 2.3.

### Web Browsers

The following browsers are certified for Web Query and Developer Workbench.

- ❑ Microsoft Edge™ 92

☐ Google Chrome™ 92

☐ Mozilla Firefox® 90

## Release 2.3 Notes

☐ Simple HTML Web Query reports can be viewed on any browser.

☐ Chart/Graph request notes:

☐ *Browser-generated graphs* refer to graphs that are rendered inside the browser using HTML5 (and JavaScript). Browser-generated graphs are utilized in both standard HTML5 output ("FORMAT JSCHART"), and in Active Technologies ("FORMAT AHTML").

☐ *Server-generated graphs* refer to 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

☐ 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 when distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are base64 encoded within the generated .htm file.

☐ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the browser's configuration information on how to change the Application Options settings for the relevant content types so that the browser will automatically use Adobe Reader.

☐ Adobe Reader support:

☐ Acrobat Reader DC is certified

☐ Adobe XI is supported

☐ Adobe X is supported

- ❑ If you are using Internet Explorer® 11 on a Windows® 2012 R2 OS and you attempt to run an object (such as a report or chart in InfoAssist), Internet Explorer 11 opens it in a new window instead of targeting the object to a specific frame. For example, in InfoAssist, the New Window Runtime opens a new browser window that shows the running image, which then replaces that page with the output. Since Internet Explorer 11 does not allow the replacement of that window, it opens a new window instead.

This browser limitation can be remedied by an administrator. For more information, see <https://social.msdn.microsoft.com/Forums/ie/en-US/a5c294e2-e407-491d-ba6a-b7f7edbcabaf/ie11-cant-post-form-data-to-specific-frame-or-window-dialog-opened-via-windowopen?forum=iewebdevelopment>

## Mobile Browser Information

If you are planning to use Web Query on mobile devices, note the following regarding mobile browser support. If you will be using Web Query on the Windows operating system, see the Web Browser support information.

**Note:** Browsers released after the production date of a Web Query version are subject to certification.

InfoAssist is not supported on mobile devices.

The following devices were used in testing Web Query 2.3:

- ❑ iOS 12
- ❑ Android 8.0, 7.1
- ❑ Db2 Web Query mobile app

Usage Considerations:

- ❑ Report Broker interfaces are supported on tablets.
- ❑ HTML reporting Table of Contents (BYTOC) feature is not supported.
- ❑ Viewing PDF, Excel, and PowerPoint documents may require a third-party helper app.
- ❑ To open active report content, JavaScript needs to be enabled in your web browser. On mobile devices, please use the Db2 Web Query mobile app. If not installed, download it from the App Store for iOS devices or from the Google Play Store for Android devices.

This documentation describes advisories, prerequisites, known issues, web browser support, and mobile support for the December 2021 - 2.3 HF3 release.

**Note:** The December 2021 HF3 release is a maintenance release only. No new features were introduced in this hotfix.

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:

- ☐ [Advisories](#)
  - ☐ [Prerequisites](#)
  - ☐ [Known Issues](#)
  - ☐ [Browser Information](#)
- 

## Advisories

The following topic describes an advisory for Db2 Web Query.

### Multiple Vulnerabilities in Apache Log4j affect IBM Db2 Web Query for i

There are multiple vulnerabilities in Apache Log4j, as described by CVE-2021-44228 and CVE-2021-45046. Apache Log4j is used by Db2 Web Query for i for generating logs and diagnostic traces in some of its components. This hotfix addresses these vulnerabilities. For more details, refer to the Security Bulletin at:

<https://www.ibm.com/support/pages/node/6529238>

## Prerequisites

The following topic describes prerequisites for Db2 Web Query 2.3 HF3.

- ☐ Db2 Web Query 2.3.0 is supported on IBM i 7.3 and 7.4.
- ☐ For 2.3.0, Windows 10 is required for the Windows client interfaces.
- ☐ The 5770JV1 option 17 - Java SE 8 64-bit Java option must be installed.

- ❑ Additionally, on IBM i 7.3, one or both of the following PTFs must be applied:
  - ❑ 5770JV1 PTFs SI62011 and SI61994
  - ❑ Java group PTF SF99725 level 3 or higher

## Known Issues

The following topics describe known issues in Db2 Web Query.

### Db2 Web Query Designer

The following is a known issue for Db2 Web Query Designer.

- ❑ Db2 Web Query Designer does not yet support running a chart with an output format that embeds graphics, such as PDF and Excel. When creating charts with embedded graphics formats, you can use InfoAssist, available from the Home Page.

### REST-Based Application Extension (WQRAX)

This section addresses the known issues for the REST-Based Application Extension (WQRAX).

- ❑ Certain types of reports, including visualizations which utilize some maps, will not render properly when invoked through 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.

**Workaround:** Either edit and save the HTML file in the Developer Workbench HTML canvas, which will make the changes automatically, or edit and save the HTML dashboard 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

- ❑ The Upload Wizard fails in BI portal (Legacy mode).
- ❑ 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.

- ❑ 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 Metadata Wizard fails in BI portal (Legacy mode).
- ❑ 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.

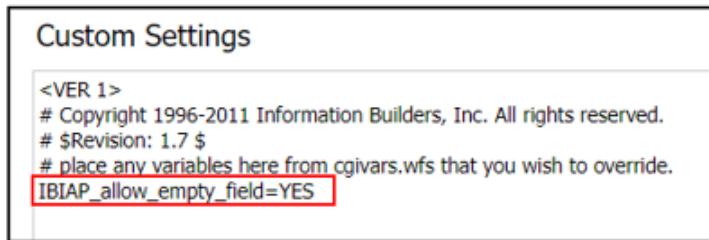
- ❑ The 2014 Demographic layers do not render on an ESRI map.

- ❑ At run time, a report will fail if empty filter values are entered for simple parameter prompts. To resolve the issue, the Web Query administrator can configure a setting to allow empty values, as follows.

1. In the Administration Console, on the *Configuration* tab, click *Custom Settings*.
2. To permit the use of empty fields in filter prompts, type the command:

```
IBIAP_allow_empty_field=YES
```

Type it under the final comment statement at the top of the Custom Settings text box or under the most recent custom setting entry, as shown in the following image.



3. To store the settings in an encrypted format, select the *Encrypt* check box.
4. When your configuration is complete, click *Save*.
5. When you receive a confirmation message, click *OK*.
6. When the Custom Setting page clears, click *Custom Settings* under the Application Settings folder to see your updated comments, settings, or commands in the Custom Settings text box.
7. If you later decide to prohibit the use of empty fields, change the command to:

```
IBIAP_allow_empty_field=NO
```

Alternatively, you can delete the following command from the Custom Settings page or convert it to a comment if you plan to reactivate this feature.

```
IBIAP_allow_empty_field=YES
```

8. When your configuration is complete, click *Save*.
- ❑ If you run a request with output to a Db2 file, and you see the following error message, (FOC36219) AN ERROR OCCURRED WHEN OPENING FILE: HOLD MASTER, then open the report in InfoAssist and re-save it. This removes the internal directive to save the metadata to an explicit location, as it is not needed in this context.

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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.
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☐ 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 when distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are base64 encoded within the generated .htm file.

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- ❑ If you are using Internet Explorer® 11 on a Windows® 2012 R2 OS and you attempt to run an object (such as a report or chart in InfoAssist), Internet Explorer 11 opens it in a new window instead of targeting the object to a specific frame. For example, in InfoAssist, the New Window Runtime opens a new browser window that shows the running image, which then replaces that page with the output. Since Internet Explorer 11 does not allow the replacement of that window, it opens a new window instead.

This browser limitation can be remedied by an administrator. For more information, see <https://social.msdn.microsoft.com/Forums/ie/en-US/a5c294e2-e407-491d-ba6a-b7f7edbcabaf/ie11-cant-post-form-data-to-specific-frame-or-window-dialog-opened-via-windowopen?forum=iewebdevelopment>

## Mobile Browser Information

If you are planning to use Web Query on mobile devices, note the following regarding mobile browser support. If you will be using Web Query on the Windows operating system, see the Web Browser support information.

**Note:** Browsers released after the production date of a Web Query version are subject to certification.

InfoAssist is not supported on mobile devices.

The following devices were used in testing Web Query 2.3:

- ❑ iOS 12
- ❑ Android 8.0, 7.1
- ❑ Db2 Web Query mobile app

Usage Considerations:

- ❑ Report Broker interfaces are supported on tablets.
- ❑ HTML reporting Table of Contents (BYTOC) feature is not supported.
- ❑ Viewing PDF, Excel, and PowerPoint documents may require a third-party helper app.
- ❑ To open active report content, JavaScript needs to be enabled in your web browser. On mobile devices, please use the Db2 Web Query mobile app. If not installed, download it from the App Store for iOS devices or from the Google Play Store for Android devices.

## Db2 Web Query Version 2.3 - September 2021 - HF2

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This documentation describes new features, prerequisites, changes in behavior, known issues, web browser support, and mobile support for the September 2021 - 2.3 HF2 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:**

- ☐ [Db2 Web Query for i Enhancements](#)
  - ☐ [Prerequisites](#)
  - ☐ [Changes in Behavior](#)
  - ☐ [Known Issues](#)
  - ☐ [Browser Information](#)
- 

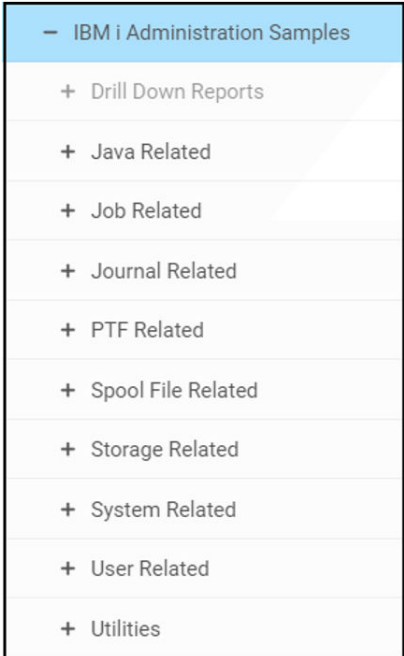
### Db2 Web Query for i Enhancements

The following are new feature enhancements that apply to Db2 Web Query for i.

#### IBM i Administration Samples

The IBM i Administration Samples workspace is now included in the Web Query product. These sample reports are built over IBM i Services, which are delivered as part of IBM i. The services make systems usage data available to SQL interfaces, such as Db2 Web Query, which were previously only available through APIs or CL commands.

The IBM i Administration Samples workspace is available to Web Query administrators. The following image shows the subject-oriented subfolders.



**Note:** These reports are based on functions in IBM i that are shipped at various levels of the Operating System. Some reports may or may not run, because the underlying service may or may not be there. The following Db2 PTF Group levels are recommended as a minimum for the System Administration Sample reports:

- ☐ IBM i 7.4 - GA level
- ☐ IBM i 7.3 - SF99703, level 12 or later

Some of the reports in the IBM i Administration Samples folder are multi-system oriented. They run and collect information not only about the system/VM where Web Query is running, but also any other remote system/VM. If one of those systems is at a 7.1 or 7.2 Operating System level, it is possible the underlying IBM i service is not available and that system/VM will return no data.

The following image is an example of one of the sample reports, the cross system PTF Currency Report comparing installed PTF Group levels to the current IBM provided level for each installed PTF Group.

System	OS Release	Date Information Gathered	Status	PTF Group ID	PTF Name	Installed Level	Level Available	Date of last IBM Update
DB2ICOE1	V7R2M0	2021/04/16	CURRENT AT THE NEXT IPL	SF99223	IBM Open Source Solutions for i	6	6	2017/11/06
				SF99334	DB2 Web Query for i V2.2.0	5	5	2018/05/13
				SF99434	Db2 Web Query for i V2.2.1	9	9	2020/06/22
				SF99480	WebSphere App Server V8.0	9	9	2018/04/27
				SF99658	DB2 Web Query for i V2.1.1	6	6	2017/08/24
				SF99702	DB2 for IBM i	27	27	2021/04/13
				SF99712	Technology Refresh plus Recommended Groups	1	1	2016/05/19
				SF99713	IBM HTTP Server for i	40	40	2021/01/07
				SF99721	All PTF Groups except Cumulative PTF Package 8	10	10	2018/01/12
				SF99747	DB2 Web Query for i V2.1.0	17	17	2017/08/24
				SF99769	IBM i integration with BladeCenter and System	1	1	2014/12/18
				SF99776	High Availability for IBM i	17	17	2021/04/09
			INSTALLED LEVEL IS CURRENT	SF99251	Content Manager OnDemand for i - 5770-RD1 7.2	12	12	2020/11/23
				SF99714	Performance Tools	11	11	2021/03/24
				SF99715	Backup Recovery Solutions	65	65	2021/01/27
				SF99716	Java	31	31	2021/03/23
				SF99717	Technology Refresh	9	9	2018/09/13
				SF99718	Group Security	92	92	2021/03/23
				SF99719	Group Hiper	188	188	2021/03/23
				SF99766	Print PTFs	3	3	2015/01/07
				SF99767	720 TCP/IP PTF	8	8	2020/12/29
				SF99775	Hardware and Related PTFs	35	35	2020/01/16
			UPDATE AVAILABLE	SF99481	WebSphere App Server V8.5	17	18	2021/02/12
				SF99720	Current Cumulative PTF Media Documentation	20296	21084	2021/04/15
				SF99759	IBM MQ for IBM i - v7.1.0/v8.0.0/v9.0.0/v9.1.0	35	37	2020/12/18
DB2ICOE2								
DB2ICOE3	V7R2M0	2021/04/16	CURRENT AT THE NEXT IPL	SF99223	IBM Open Source Solutions for i	6	6	2017/11/06
				SF99334	DB2 Web Query for i V2.2.0	5	5	2018/05/13
				SF99434	Db2 Web Query for i V2.2.1	9	9	2020/06/22
				SF99480	WebSphere App Server V8.0	9	9	2018/04/27
				SF99658	DB2 Web Query for i V2.1.1	6	6	2017/08/24

## Century Electronics

The Century Electronics workspace is now included in the Web Query product. The reports in this workspace correspond to assignments in the InfoAssist tutorials. They serve as “how to” references for a variety of different looks and functions of reports and dashboards. The reports are built over the Century Electronics database in the QWQCENT library.

When getting started with Web Query, it is recommended to take the Test Drive tutorial. It is available along with the EZ-Install package for Web Query, or it can be requested separately, at [qu2@us.ibm.com](mailto:qu2@us.ibm.com).

The following image shows the Century Electronics workspace.

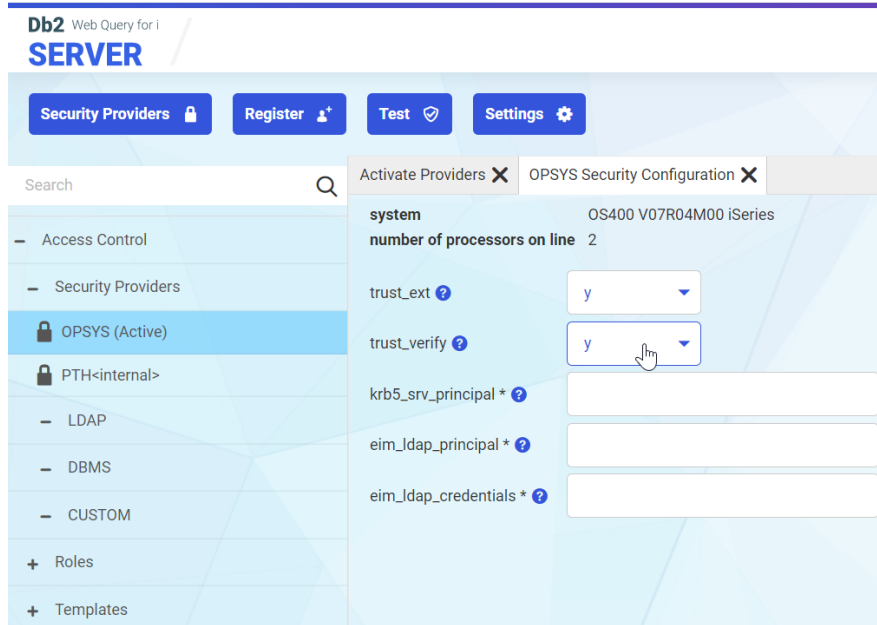
– Century Electronics
+ Assignment 01 - Simple Reports
+ Assignment 02 - Implementing Various Date Functions in Reports
+ Assignment 03 - Other Report Features and Formats
+ Assignment 04 - Charting
+ Assignment 05 - Adding Filters to Reports
+ Assignment 06 - Detail and Print Reports
+ Assignment 07 - Implementing OLAP
+ Assignment 08 - Building Documents and Dashboards
+ Assignment 09 - Exploring and comparing other Dashboard options
+ Assignment 14 - Stored Procedures in Action
+ Guided Ad Hoc Forms

## Web Query Single Sign On

The trust\_verify setting controls the behavior of the single sign on for Web Query when a user's IBM i password is expired. The setting controls whether the server should allow the user's SSO connection or fail it with an authorization error.

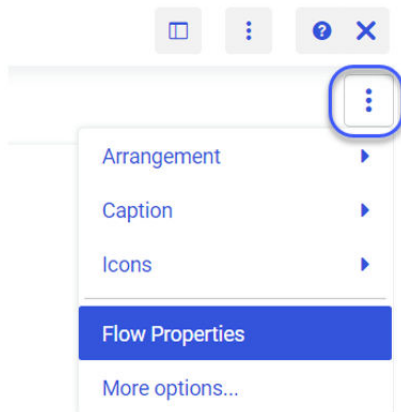
The default value is trust\_verify=y, which will fail the Web Query login if the user's password is expired. If the setting is changed from the default trust\_verify=y to trust\_verify=n, the setting will be included in the edaserve.cfg file. The default behavior is unchanged when upgrading to group PTF level 10 from a prior release or fix level of Web Query.

A Web Query administrator can set the `trust_verify` setting from the Access Control tab on the Db2 Web Query Server Console, as shown in the following image. The administrator must save and restart the server for the setting to take effect.



## Viewing Flow Properties on the Data Flow Canvas

A new Flow Properties item has been added to the View Options menu on the Data Flow canvas, as shown in the following image.



Clicking this option opens a Flow Properties dialog box. The properties displayed depend on the type of Data Flow that is open in the canvas. For example, the following image shows a Data Flow that splits the source data into two target tables.

Flow Properties

Flow name

dmsplit

Created by

dm

Last modified date

20200609 11.40.52

Description

target (multiple tables ) - validate used to split into two tables

Comment

Execution

Continue processing when a partial answer set is returned

☐

Stop if 0 rows selected

☐

Restart

Cancel

Apply

You can make selections, or change options, and click *Apply* to implement them. For example, the following image shows how to select restart options for a flow.

The screenshot shows the 'Flow Properties' dialog box with the 'Restart' tab selected. The 'Restart' tab contains the following fields:

- Number of attempts:** A text input field containing the value '2'.
- Restart from:** A dropdown menu with a downward arrow. The dropdown is open, showing two options: 'Beginning' and 'Last commit'.

The 'General' tab (which is currently not selected) contains the following fields:

- Flow name:** dflow01
- Created by:** edaiaas
- Last modified date:** 20210309 18:47:23
- Description:** flow with new target
- Comment:** my first flow with WEB ETL

At the bottom right of the dialog box are two buttons: 'Cancel' and 'Apply'.

Once you click *Apply*, your settings are saved, and the last modified date and creator ID are displayed. The dialog box closes automatically.

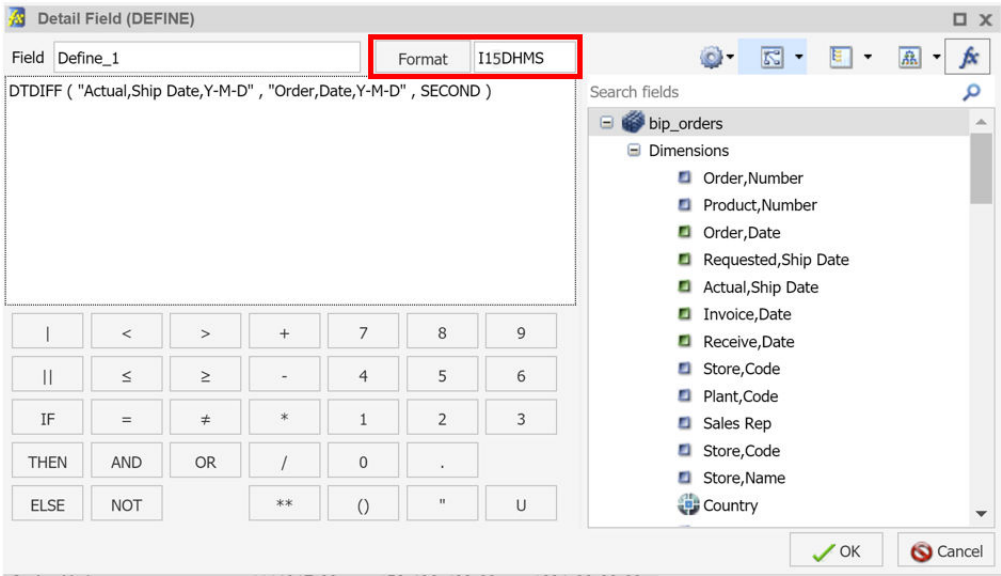
To close without applying any changes, click the Close button (x) to close the dialog box.

## Duration of Time

For DEFINE and COMPUTE fields, a new output format is available that will display a number of seconds (integer) as days, hours, minutes, and seconds (DD:HH:MM:SS). The new format for the field is lxxDHMS, where xx is an integer length, up to a maximum length of 22.

**Note:** The format must be typed into the Format field on the Detail Field dialog box.

The following image shows an example of a DEFINE field that uses the DTDIFF function to determine the difference between ship date and order date, in seconds. The DEFINE field has a format of I15DHMS.



Below is a report that uses this format. The time to ship column displays the difference between the ship date and the invoice date in the I11DHMS format.

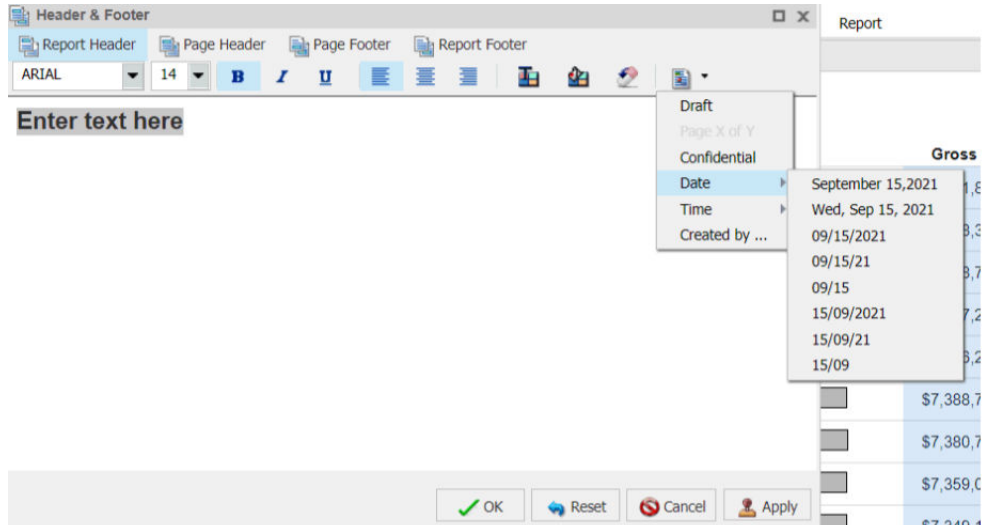
ORDERNUM	INVOICEDT	SHIPDT	TimeToShip
28003	2021/09/21 14:02:00.000000	2021/09/22 15:55:00.000000	01:01:53:00
28004	2021/09/21 15:19:06.000000	2021/09/24 10:54:00.000000	02:19:34:54
28005	2021/09/21 20:10:03.000000	2021/09/21 23:54:00.000000	00:03:43:57

Automated Insights

Automated Insights is no longer restricted to English use only. Automated Insights is enhanced for availability on non-English systems.

## Localized Dates

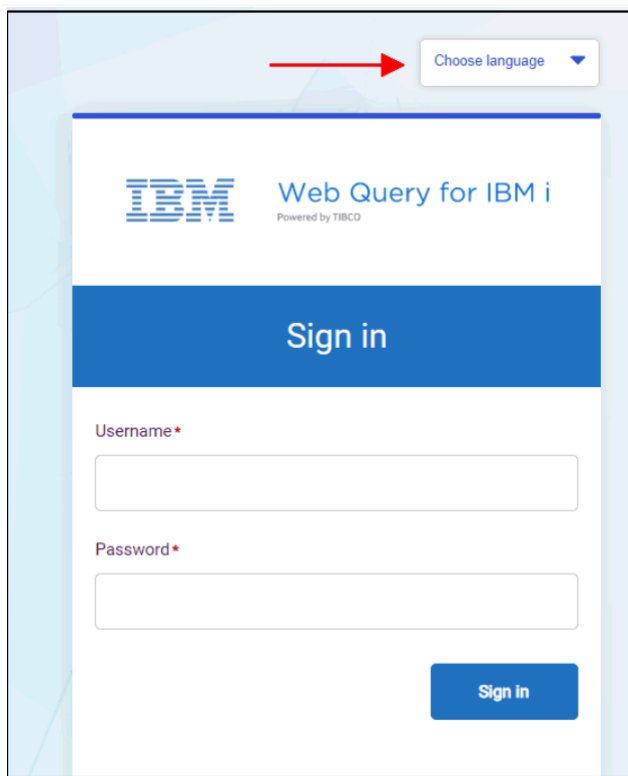
You can include a date in a report header or footer, and you can choose to display the date in a specific format. The following image shows the date format selections.



When running the report on a non-English configuration, if you want the month and the day of the week to show up localized (that is, in the configured language), then follow these steps:

1. A Web Query administrator should go to the Reporting Server Web Console and add the custom setting DATEOUTPUT = LOCALIZED to the edasprof.prf file. This changes the setting globally for all users.
2. Restart Web Query.

**Note:** When signing in, if more than one language is available for selection, you can select the local language from the *Choose language* option, as shown in the following image.



## WQRAX Support for Visualizations

WQRAX is enhanced to run visualizations created by Automated Insights and Designer.

## Prerequisites

The following topic describes prerequisites for Db2 Web Query 2.3 HF2.

- ❑ Db2 Web Query 2.3.0 is supported on IBM i 7.3 and 7.4.
- ❑ For 2.3.0, Windows 10 is required for the Windows client interfaces.
- ❑ The 5770JV1 option 17 - Java SE 8 64-bit Java option must be installed.

❑ Additionally, on IBM i 7.3, one or both of the following PTFs must be applied:

- ❑ 5770JV1 PTFs SI62011 and SI61994
- ❑ Java group PTF SF99725 level 3 or higher

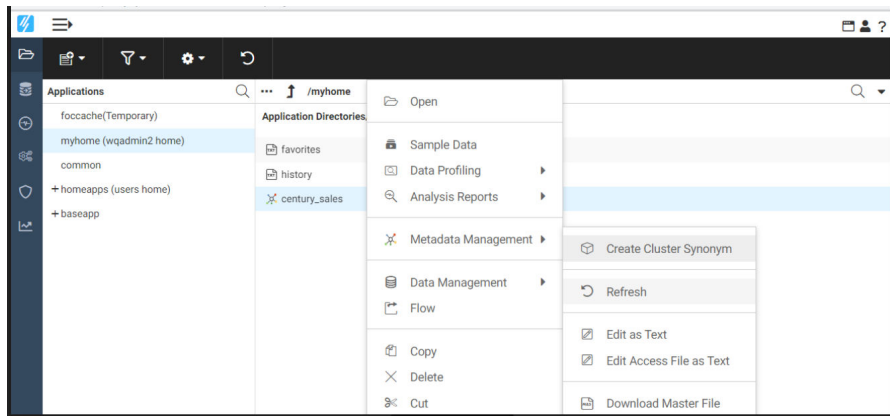
## Changes in Behavior

The following topics describe changes in behavior for Db2 Web Query 2.3 HF2.

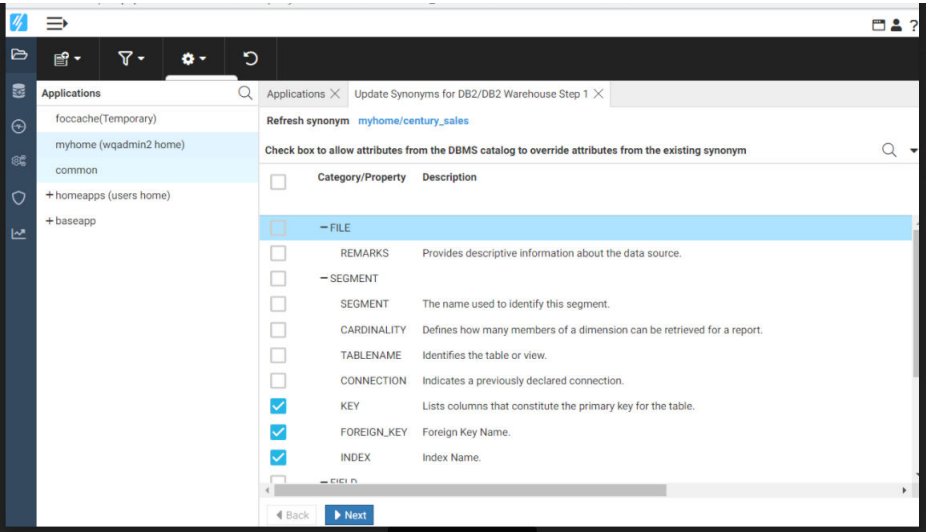
### Developer Workbench

In Developer Workbench, the context menu for synonyms is removed. In order to refresh a synonym, you need to use the Web Query Reporting Server Console.

1. From the Console, right-click the synonym, select *Metadata Management*, and then select *Refresh*, as shown in the following image.



The Refresh synonym pane opens, as shown in the following image.



- 2. Select the DBMS catalog columns for your requirements from the list. This will override attributes from the existing synonym.
- 3. Click Next.

Metadata

When using the Create Synonym utility in Legacy mode, no feedback is returned after clicking *Add*. To know that the operation completed, watch for the browser spinner to stop or click the *Add* button again for a confirmation that the metadata already exists or create the synonym from the Db2 Web Query Home Page.

Data Flows

By default, new flows are created with the *Optimize Load* option enabled.

- ☐ When the *Optimize Load* option is selected (default), the *Bulk Load Utility via a Disk File* option is not available on target properties.
- ☐ When the *Optimize Load* option is not selected, the *Bulk Load Utility via a Disk File* option is available on target properties.

Known Issues

The following topics describe known issues in Db2 Web Query.

## Db2 Web Query Designer

This following is a known issue for Db2 Web Query Designer.

- ❑ Db2 Web Query Designer does not yet support running a chart with an output format that embeds graphics, such as PDF and Excel. When creating charts with embedded graphics formats, you can use InfoAssist, available from the Home Page.

## REST-Based Application Extension (WQRAX)

This section addresses the known issues for the REST-Based Application Extension (WQRAX).

- ❑ Certain types of reports, including visualizations which utilize some maps, will not render properly when invoked through 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.

**Workaround:** Either edit and save the HTML file in the Developer Workbench HTML canvas, which will make the changes automatically, or edit and save the HTML dashboard 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

- ❑ The Upload Wizard fails in BI portal (Legacy mode).

- ❑ 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.

- ❑ 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 Metadata Wizard fails in BI portal (Legacy mode).
- ❑ 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

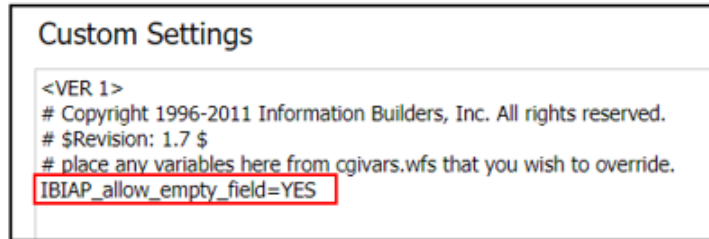
This section addresses the known issues for InfoAssist.

- ❑ The 2014 Demographic layers do not render on an ESRI map.
- ❑ At run time, a report will fail if empty filter values are entered for simple parameter prompts. To resolve the issue, the Web Query administrator can configure a setting to allow empty values, as follows.

1. In the Administration Console, on the *Configuration* tab, click *Custom Settings*.
2. To permit the use of empty fields in filter prompts, type the command:

```
IBIAP_allow_empty_field=YES
```

Type it under the final comment statement at the top of the Custom Settings text box or under the most recent custom setting entry, as shown in the following image.



3. To store the settings in an encrypted format, select the *Encrypt* check box.
4. When your configuration is complete, click Save.
5. When you receive a confirmation message, click OK.
6. When the Custom Setting page clears, click *Custom Settings* under the Application Settings folder to see your updated comments, settings, or commands in the Custom Settings text box.
7. If you later decide to prohibit the use of empty fields, change the command to:

```
IBIAP_allow_empty_field=NO
```

Alternatively, you can delete the following command from the Custom Settings page or convert it to a comment if you plan to reactivate this feature.

```
IBIAP_allow_empty_field=YES
```

8. When your configuration is complete, click Save.
- ☐ If you run a request with output to a Db2 file, and you see the following error message, (FOC36219) AN ERROR OCCURRED WHEN OPENING FILE: HOLD MASTER, then open the report in InfoAssist and re-save it. This removes the internal directive to save the metadata to an explicit location, as it is not needed in this context.
  - ☐ The German translation of the visualization filter box for BLANK does not match the run-time option.

## JD Edwards Adapters

This section addresses the known issue 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 issue 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.

## Spreadsheet Client

This section addresses the known issue for Spreadsheet Client.

- ❑ The data source is not correct when creating a report using metadata that is under the user's top-level folder. By default, Spreadsheet Client shows metadata in the `baseapp` folder.
- ❑ HTML report data is not written into Excel.

- ❑ Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.

## National Language Support

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

- ❑ When the Reporting Server runs in CCSID 285, HTML dashboards fail with JavaScript errors if running in a Firefox or Internet Explorer browser. This is caused by an encoding problem in the IBM Websphere Application Server plugin. To resolve the problem, apply the following PTF for your release level of product 5770DG1:
  - ❑ 7.3: SI69363
- ❑ Some of the Retail Sample reports will not run in NLS or DBCS languages. This issue will be resolved in an upcoming PTF.

## 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. To create Query/400 synonyms, right-click a folder and select the *Metadata New* option.
- ❑ Creating a synonym for a Query/400 file fails when it is launched from a subfolder.

## Advisories

The following topics describe advisories for Db2 Web Query.

### Microsoft® Internet Explorer® End-of-Life and Db2 Web Query Notice

Effective April 1, 2021, all new releases of Db2 Web Query and Developer Workbench will no longer support Internet Explorer 11 as a certified browser.

You can continue to utilize Internet Explorer with Db2 Web Query and Developer Workbench, but features are not guaranteed to work correctly. New features released in future releases are supported and available only on modern browsers, including Mozilla Firefox, Microsoft Edge, and Google Chrome.

For more information about the lifecycle of Internet Explorer 11 from Microsoft, see the following statements:

[\*Lifecycle policy for Internet Explorer\*](#)

[\*Microsoft 365 apps say farewell to Internet Explorer 11\*](#)

### **Esri Mapping Demographic Layers 2010-2014 Retirement Statement**

The Esri® Mapping Demographic Layers for years 2010, 2011, 2012, 2013, and 2014, which can be used with Web Query, will no longer be supported as a result of their [\*retirement by Esri\*](#). In a future release or hotfix, you will no longer be able to configure these layers. If you have charts created in Web Query InfoAssist that reference these layers, you must manually edit them to remove the reference, otherwise these layers may not render.

The following Demographic Layers have been retired by Esri and may not be available in Web Query:

- ☐ USA Health Care Spending 2014
- ☐ USA Population Change 2000-2010
- ☐ USA Population Change 2010-2012
- ☐ USA Population Density 2012
- ☐ USA Population Density 2013
- ☐ USA Population Density 2014
- ☐ USA Population Older than Age 64
- ☐ USA Population Younger than Age 18
- ☐ USA Projected Population Growth 2012-2017
- ☐ USA Restaurant Spending 2014
- ☐ USA Tapestry Segmentation 2012
- ☐ USA Tapestry Segmentation 2014
- ☐ USA Unemployment Rate 2012

To learn more about the retirement of layers from Esri, visit <http://doc.arcgis.com/en/esri-demographics/reference/legacy-demographic-maps.htm>.

## Browser Information

The following topics describe information for the available web and mobile browsers for Web Query 2.3.

### Web Browsers

The following browsers are certified for Web Query and Developer Workbench.

- ☐ Microsoft Edge™ 89
- ☐ Google Chrome™ 89
- ☐ Mozilla Firefox® 86

### Release 2.3 Notes

- ☐ Simple HTML Web Query reports can be viewed on any browser.
- ☐ Chart/Graph request notes:
  - ☐ *Browser-generated graphs* refer to graphs that are rendered inside the browser using HTML5 (and JavaScript). Browser-generated graphs are utilized in both standard HTML5 output ("FORMAT JSCHART"), and in Active Technologies ("FORMAT AHTML").
  - ☐ *Server-generated graphs* refer to 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
- ☐ 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 when distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are base64 encoded within the generated .htm file.

- ☐ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the browser's configuration information on how to change the Application Options settings for the relevant content types so that the browser will automatically use Adobe Reader.
- ☐ Adobe Reader support:
  - ☐ Acrobat Reader DC is certified
  - ☐ Adobe XI is supported
  - ☐ Adobe X is supported
- ☐ If you are using Internet Explorer® 11 on a Windows® 2012 R2 OS and you attempt to run an object (such as a report or chart in InfoAssist), Internet Explorer 11 opens it in a new window instead of targeting the object to a specific frame. For example, in InfoAssist, the New Window Runtime opens a new browser window that shows the running image, which then replaces that page with the output. Since Internet Explorer 11 does not allow the replacement of that window, it opens a new window instead.

This browser limitation can be remedied by an administrator. For more information, see <https://social.msdn.microsoft.com/Forums/ie/en-US/a5c294e2-e407-491d-ba6a-b7f7edbcabaf/ie11-cant-post-form-data-to-specific-frame-or-window-dialog-opened-via-windowopen?forum=iewebdevelopment>

## Mobile Browser Information

If you are planning to use Web Query on mobile devices, note the following regarding mobile browser support. If you will be using Web Query on the Windows operating system, see the Web Browser support information.

**Note:** Browsers released after the production date of a Web Query version are subject to certification.

InfoAssist is not supported on mobile devices.

The following devices were used in testing Web Query 2.3:

- ☐ iOS 12
- ☐ Android 8.0, 7.1
- ☐ Db2 Web Query mobile app

#### Usage Considerations:

- ☐ Report Broker interfaces are supported on tablets.
- ☐ HTML reporting Table of Contents (BYTOC) feature is not supported.
- ☐ Viewing PDF, Excel, and PowerPoint documents may require a third-party helper app.
- ☐ To open active report content, JavaScript needs to be enabled in your web browser. On mobile devices, please use the Db2 Web Query mobile app. If not installed, download it from the App Store for iOS devices or from the Google Play Store for Android devices.



This documentation describes new features, prerequisites, changes in behavior, known issues, web browser support, and mobile support for the February 2021 - 2.3 HF1 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:**

- ☐ [Db2 Web Query for i Enhancements](#)
  - ☐ [Prerequisites](#)
  - ☐ [Changes in Behavior](#)
  - ☐ [Known Issues](#)
  - ☐ [Browser Information](#)
- 

### Db2 Web Query for i Enhancements

The following are new feature enhancements that apply to Db2 Web Query for i.

#### Automated Insights Trial

The Automated Insights feature provides you with a simple alternative from which you can quickly identify trends in your data and choose from a library of customizable visualizations. This new data exploration feature empowers you with the immediate knowledge you need to run advanced analysis and drive business outcomes.

With this limited preview, authorized users of *IBM Db2 Web Query for i* can explore the Automated Insights functionality on a trial basis.

With one click, Automated Insights recognize trends in your data, generate customizable visualizations as charts with natural language headers, and categorize the charts into tabs. You can add these charts to the canvas and build a page, or add them to existing pages or dashboards. Then, you can save and share your insights with others.

**Note:**

- ❑ Automated Insights is temporarily restricted for English use only. Automated Insights will be supported for other languages in a future hotfix.
- ❑ For more information on configuring and using Automated Insights with Db2 Web Query, see the Documentation page of the Web Query wiki at:

<https://www.ibm.com/support/pages/node/1274656>

### Functionality and Architecture

The Db2 Web Query Reporting Server is preconfigured to access the ibi Automated Insights Services, once the feature is activated. The recommended volume of sample data sent to the Automated Insights cloud service is limited to 500,000 records (rows). If the data size exceeds the limitation, the Reporting Server will send randomly sampled data to the Python server. Automated Insights supports multi-structured data, as well.

Only authorized Reporting Servers, using JWT, can send API requests to the Insights server. Communication to and from the service is secured by using an HTTPS protocol.

The Insight cloud service is backed by a production cluster in AWS, providing redundancy and limited auto-scaling.

### Prerequisites

The following topic describes prerequisites for Db2 Web Query 2.3 HF1.

- ❑ Db2 Web Query 2.3.0 is supported on IBM i 7.3 and 7.4.
- ❑ For 2.3.0, Windows 10 is required for the Windows client interfaces.
- ❑ The 5770JV1 option 17 - Java SE 8 64-bit Java option must be installed.
- ❑ Additionally, on IBM i 7.3, one or both of the following PTFs must be applied:
  - ❑ 5770JV1 PTFs SI62011 and SI61994
  - ❑ Java group PTF SF99725 level 3 or higher

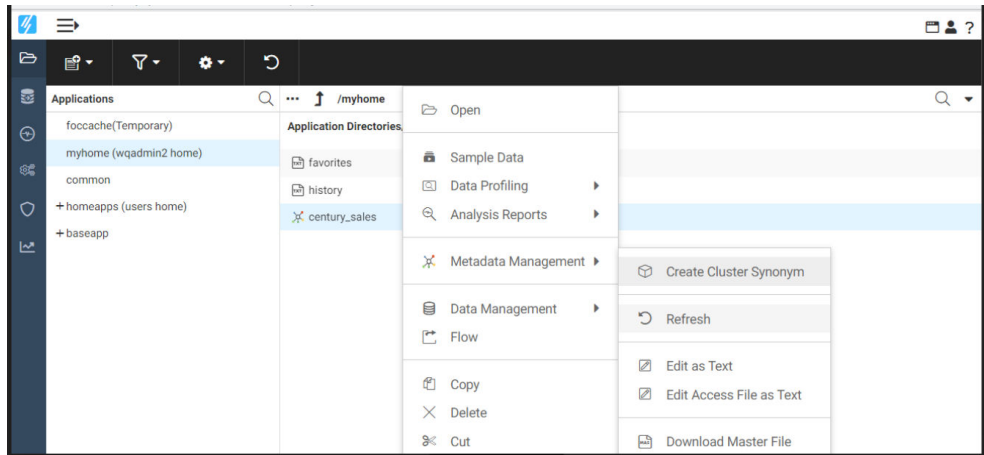
### Changes in Behavior

The following topics describe changes in behavior for Db2 Web Query 2.3 HF1.

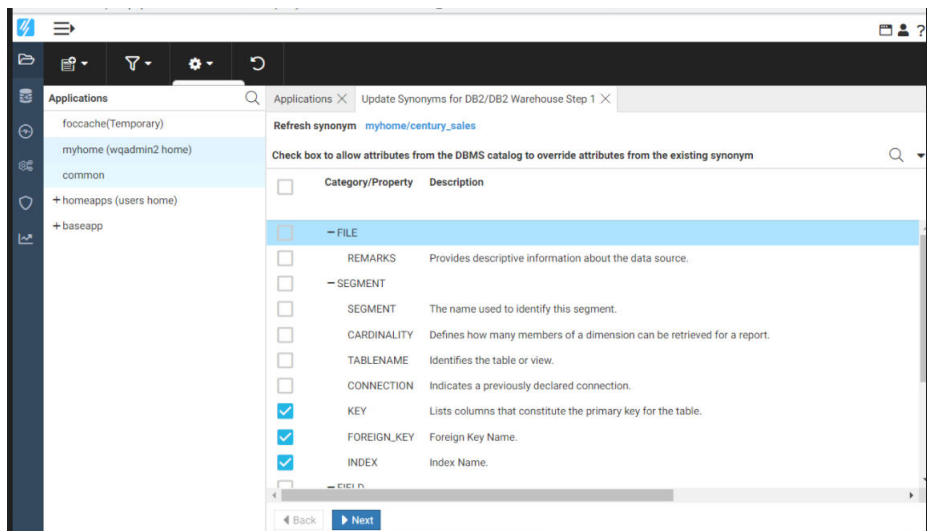
## Developer Workbench

In Developer Workbench, the context menu for synonyms is removed. In order to refresh a synonym, you need to use the Web Query Reporting Server Console.

1. From the Console, right-click the synonym, select *Metadata Management*, and then select *Refresh*, as shown in the following image.



The Refresh synonym pane opens, as shown in the following image.



2. Select the DBMS catalog columns for your requirements from the list. This will override attributes from the existing synonym.

3. Click Next.

## Metadata

When using the Create Synonym utility in Legacy mode, no feedback is returned after clicking *Add*.

## Validation Lists for RUNWQFEX

A security enhancement to Web Query validation lists requires that existing validation lists specified on the Run Web Query Fex (RUNWQFEX) command be recreated for release 2.3.0. To recreate a validation list, use the Create Web Query Password (CRTWQPWD) command. If the validation list is not recreated, the RUNWQFEX command will fail with message QWQ0633.

## EZ-Report

Early versions of EZ-Report, which were available for release 2.2.1 running group PTF level 8 or 9, included a utility to register credentials for creating and publishing the report in the Web Query repository. EZ-Report now includes a Validation List parameter for providing the credentials. For more information on the parameter or how to create the validation list, refer to the EZ-Report topic on the wiki at <http://ibm.biz/db2wqwiki>.

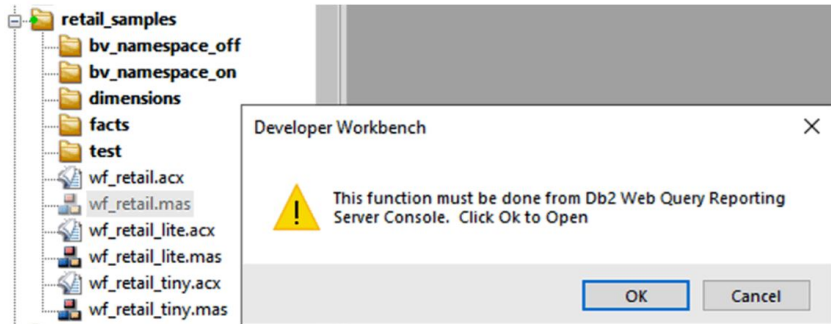
## Developer Workbench Download

Users of the Developer Workbench client must download and install the release 2.3.0 files on their workstation. It is important that the release and fix level of the client match that of the Web Query Reporting Server running on the IBM i. To install the client, download the following five files from /qibm/proddata/qwebqry/DeveloperWorkbench to a folder on the Windows workstation, then run the .exe file:

```
/qibm/proddata/qwebqry/DeveloperWorkbench/WQDevWork230.sfx.part1.exe  
/qibm/proddata/qwebqry/DeveloperWorkbench/WQDevWork230.sfx.part2.rar  
/qibm/proddata/qwebqry/DeveloperWorkbench/WQDevWork230.sfx.part3.rar  
/qibm/proddata/qwebqry/DeveloperWorkbench/WQDevWork230.sfx.part4.rar  
/qibm/proddata/qwebqry/DeveloperWorkbench/WQDevWork230.sfx.part5.rar
```

## Developer Workbench Synonym

In Developer Workbench, when double-clicking to open a synonym, the following dialog box displays, as shown in the following image.



Click **OK** to continue opening the synonym.

## WQRAX Properties

Credentials in the WQRAX properties file are encrypted. To change the credentials, for example, if the password expires or you want to specify a different user ID, go to:

<http://<server>:12331/wqrax/config>

## Port Usage

Db2 Web Query release 2.3.0 uses ports in the range 12331 to 12339. Port 11331 is no longer used.

## Health Checker

The Web Query health checker is a diagnostic tool used by IBM Service. Output from the tool is relocated to /tmp/qwebqry/healthchecker.

## Group PTF Numbers

The group PTF numbers reserved for Db2 Web Query release 2.3.0 are:

- ☐ SF99533 V7R3M0
- ☐ SF99654 V7R4M0

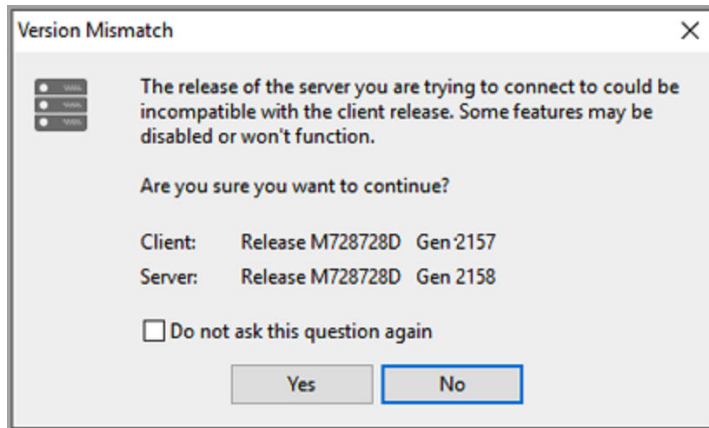
## Known Issues

The following topics describe known issues in Db2 Web Query.

## Developer Workbench

The following is a known issue for Developer Workbench.

- ❑ When connecting to the Web Query Reporting Server from the Data Management Console (DMC), a Version Mismatch warning message occurs, as shown in the following image. You may press Yes to continue.



**Note:** If you receive a Version Mismatch warning and your Client Gen number is prior to 2157, then you should download and install the HF6 version of Developer Workbench.

## Db2 Web Query Designer

The following is a known issue for Db2 Web Query Designer.

- ❑ Db2 Web Query Designer does not yet support running a chart with an output format that embeds graphics, such as PDF and Excel. When creating charts with embedded graphics formats, you can use InfoAssist, available from the Legacy Home Page.

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- ☐ NLS characters are not supported in the following places when using the Upload Data and Upload Wizard:
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**Workaround:** Use invariant (A-Z and 0-9) characters. Support for NLS characters will be added in a future Hotfix.

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### InfoAssist

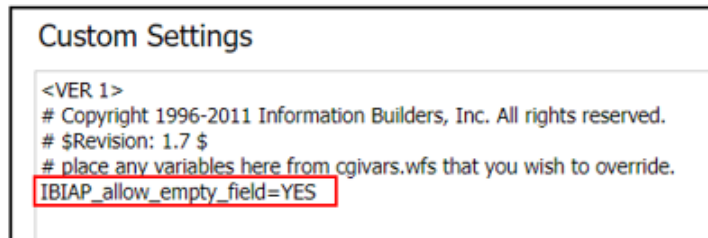
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4. When your configuration is complete, click *Save*.
5. When you receive a confirmation message, click *OK*.
6. When the Custom Setting page clears, click *Custom Settings* under the Application Settings folder to see your updated comments, settings, or commands in the Custom Settings text box.

7. If you later decide to prohibit the use of empty fields, change the command to:

```
IBIAP_allow_empty_field=NO
```

Alternatively, you can delete the following command from the Custom Settings page or convert it to a comment if you plan to reactivate this feature.

```
IBIAP_allow_empty_field=YES
```

8. When your configuration is complete, click Save.

## JD Edwards Adapters

This section addresses the known issue 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 issue 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.

## Spreadsheet Client

This section addresses the known issue for Spreadsheet Client.

- ❑ HTML report data is not written into Excel.
- ❑ The incorrect add-in (.xla) file is included.
- ❑ Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.

## National Language Support

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

- ❑ When the Reporting Server runs in CCSID 285, HTML dashboards fail with JavaScript errors if running in a Firefox or Internet Explorer browser. This is caused by an encoding problem in the IBM Websphere Application Server plugin. To resolve the problem, apply the following PTF for your release level of product 5770DG1:
  - ❑ 7.3: SI69363
- ❑ Some of the Retail Sample reports will not run in NLS or DBCS languages. This issue will be resolved in an upcoming PTF.

## 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. To create Query/400 synonyms, right-click a folder and select the *Metadata New* option.
- ❑ Creating a synonym for a Query/400 file fails when it is launched from a subfolder.

## Advisories

The following topics describe advisories for Db2 Web Query.

## Esri Mapping Demographic Layers 2010-2014 Retirement Statement

The Esri® Mapping Demographic Layers for years 2010, 2011, 2012, 2013, and 2014, which can be used with Web Query, will no longer be supported as a result of their [retirement by Esri](#). In a future release or hotfix, you will no longer be able to configure these layers. If you have charts created in Web Query InfoAssist that reference these layers, you must manually edit them to remove the reference, otherwise these layers may not render.

The following Demographic Layers have been retired by Esri and may not be available in Web Query:

- ☐ USA Health Care Spending 2014
- ☐ USA Population Change 2000-2010
- ☐ USA Population Change 2010-2012
- ☐ USA Population Density 2012
- ☐ USA Population Density 2013
- ☐ USA Population Density 2014
- ☐ USA Population Older than Age 64
- ☐ USA Population Younger than Age 18
- ☐ USA Projected Population Growth 2012-2017
- ☐ USA Restaurant Spending 2014
- ☐ USA Tapestry Segmentation 2012
- ☐ USA Tapestry Segmentation 2014
- ☐ USA Unemployment Rate 2012

To learn more about the retirement of layers from Esri, visit <http://doc.arcgis.com/en/esri-demographics/reference/legacy-demographic-maps.htm>.

## Browser Information

The following topics describe information for the available web and mobile browsers for Web Query 2.3.

## Web Browsers

The following browsers are certified for Web Query and Developer Workbench.

- ☐ Microsoft Edge™ 85
- ☐ Internet Explorer® 11
- ☐ Google Chrome™ 86
- ☐ Mozilla Firefox® 81

## Release 2.3 Notes

- ☐ Simple HTML Web Query reports can be viewed on any browser.
- ☐ Chart/Graph request notes:
  - ☐ *Browser-generated graphs* refer to graphs that are rendered inside the browser using HTML5 (and JavaScript). Browser-generated graphs are utilized in both standard HTML5 output ("FORMAT JSCHART"), and in Active Technologies ("FORMAT AHTML").
  - ☐ *Server-generated graphs* refer to 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
- ☐ 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 when distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are base64 encoded within the generated .htm file.
- ☐ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the browser's configuration information on how to change the Application Options settings for the relevant content types so that the browser will automatically use Adobe Reader.
- ☐ Adobe Reader support:
  - ☐ Acrobat Reader DC is certified

- ☐ Adobe XI is supported
- ☐ Adobe X is supported
- ☐ If you are using Internet Explorer® 11 on a Windows® 2012 R2 OS and you attempt to run an object (such as a report or chart in InfoAssist), Internet Explorer 11 opens it in a new window instead of targeting the object to a specific frame. For example, in InfoAssist, the New Window Runtime opens a new browser window that shows the running image, which then replaces that page with the output. Since Internet Explorer 11 does not allow the replacement of that window, it opens a new window instead.

This browser limitation can be remedied by an administrator. For more information, see <https://social.msdn.microsoft.com/Forums/ie/en-US/a5c294e2-e407-491d-ba6a-b7f7edbcabaf/ie11-cant-post-form-data-to-specific-frame-or-window-dialog-opened-via-windowopen?forum=iwebdevelopment>

## Mobile Browser Information

If you are planning to use Web Query on mobile devices, note the following regarding mobile browser support. If you will be using Web Query on the Windows operating system, see the Web Browser support information.

**Note:** Browsers released after the production date of a Web Query version are subject to certification.

InfoAssist is not supported on mobile devices.

The following devices were used in testing Web Query 2.3:

- ☐ iOS 12
- ☐ Android 8.0, 7.1
- ☐ Db2 Web Query mobile app

Usage Considerations:

- ☐ Report Broker interfaces are supported on tablets.
- ☐ HTML reporting Table of Contents (BYTOC) feature is not supported.
- ☐ Viewing PDF, Excel, and PowerPoint documents may require a third-party helper app.
- ☐ To open active report content, JavaScript needs to be enabled in your web browser. On mobile devices, please use the Db2 Web Query mobile app. If not installed, download it from the App Store for iOS devices or from the Google Play Store for Android devices.



This documentation describes new features, prerequisites, changes in behavior, known issues, web browser support, and mobile support for the December 2020 - 2.3 GA 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:**

- ☐ [Db2 Web Query for i Enhancements](#)
  - ☐ [Prerequisites](#)
  - ☐ [Changes in Behavior](#)
  - ☐ [Known Issues](#)
  - ☐ [Browser Information](#)
- 

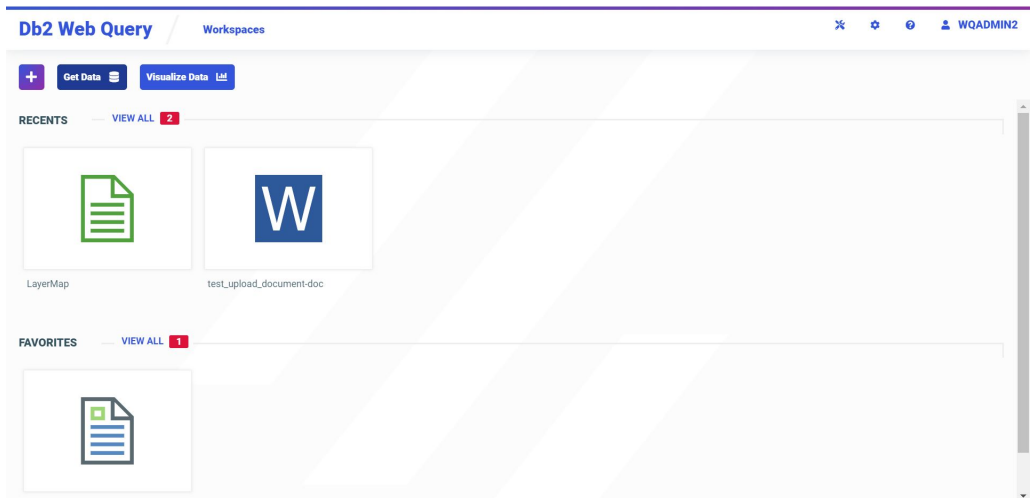
## Db2 Web Query for i Enhancements

The following are new feature enhancements that apply to Db2 Web Query for i.

### New Home Page

The redesigned Home Page provides easy access and seamless navigation to the tools, functions, properties, and features that Db2 Web Query offers. This new interactive landing page automatically displays your favorites and last viewed items, based on your activity. Other features include one-touch access to Db2 Web Query Designer, available from every location within the Home Page, centralized view of your private content repository, and more.

The Db2 Web Query Home Page is shown in the following image.



Your Home Page is the central location for all Db2 Web Query tasks. Setting it up in a way that is convenient, secure, and efficient helps you get the most out of your work. The Workspaces view of the Home Page opens the content area, and provides access to the available workspaces. Workspaces and folders that are located in the Resources tree organize all of your content items. Authorized users can create additional workspaces or folders, as well as customize the default structure of their view.

**Note:** The full view of the resources, in which the servers are listed as folders, is only available from the Legacy Home Page. If you want to use the Legacy Home Page while you become familiar with the new Db2 Web Query Designer, click your name in the top right of the Home Page and select *Legacy Homepage*. That will take you to the Legacy BI portal. To access the full view, on the Legacy Home Page, right-click *Workspaces*, point to *View*, and then click *Full*.

For more information on the Db2 Web Query Home Page, refer to the Documentation link on the Web Query wiki at:

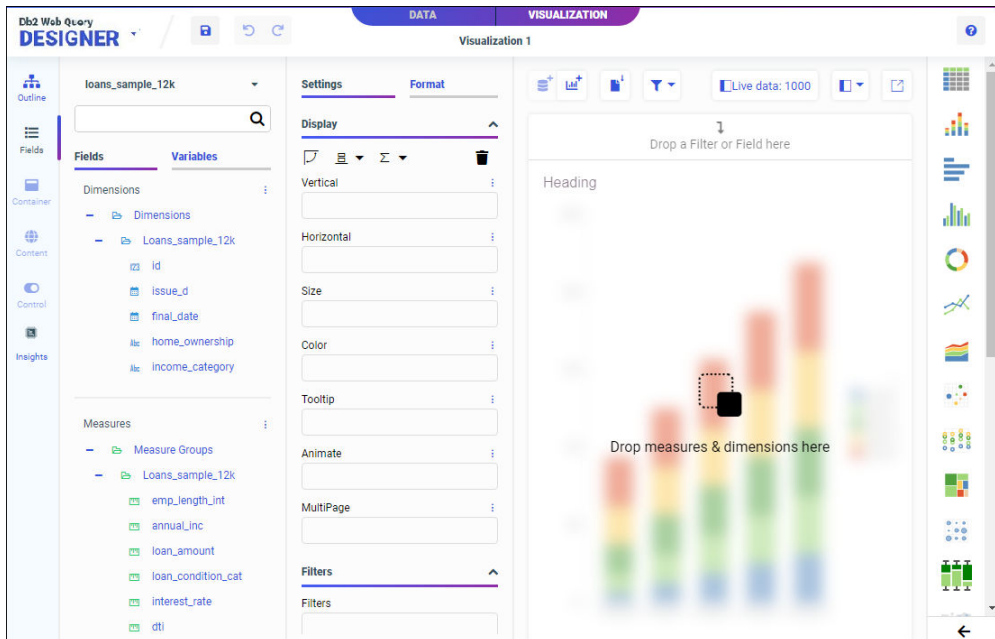
<http://ibm.biz/db2wqwiki>

## Enhanced Designer Workflows and UI

Db2 Web Query Designer now includes an integrated canvas that enables you to join data, visualize that data, and arrange your new content into an interactive page, all within a single session. Using the enhanced feature set, you can create new content in a variety of standard or custom chart types and report layouts. You can style and customize these items individually, by adding temporary fields, customizable subtotals, or contextualized links to other content items and web pages.

Filter your content based on values from different fields, which are chained, so that your selections are always valid. You can even create filters based on visual elements selected on the canvas. Then, transform your chart or report instantly into a page, in which you can create, rearrange, and style even more new content, seamlessly switching between chart, report, and page components.

The Db2 Web Query Designer is shown in the following image.



For more information on the Db2 Web Query Designer, refer to the Documentation link on the Web Query wiki at:

<http://ibm.biz/db2wqwiki>

## Insights

You can click the *Insights* tab on the sidebar to easily run advanced analyses and generate visualizations and narratives on your data set, without manually preparing and analyzing your data, or having prior knowledge of data science or statistics. An example of the Insights tab with some generated content is shown in the following image.



For more information on Insights, refer to the Documentation link on the Web Query wiki at:

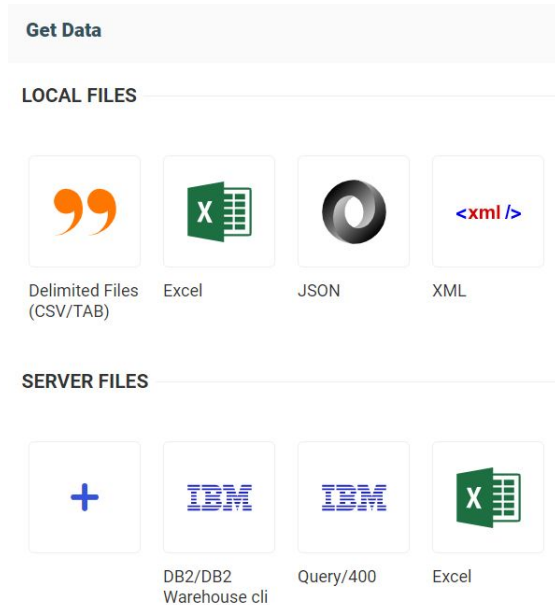
<http://ibm.biz/db2wqwiki>

## Data Management and Data Preparation Enhancements

You can now access all of your data from a single, streamlined environment, which enables you to upload and modify data files or connect to various data sources, configure adapters, and add or change connections. Then, easily visualize your data, use it to create content, or prepare it for future analysis.

Sources and targets are now represented by database-specific icons, and the nodes have ports that indicate when required components are missing. You can now also drag targets onto the canvas. Excel targets are supported and now are generated with a synonym. Additionally, for large data sources, in addition to generating a representative sample to improve response times when making decisions, you can create a stratified sample that will contain a row with every unique value of fields that you select.

The following image shows the Get Data dialog box.



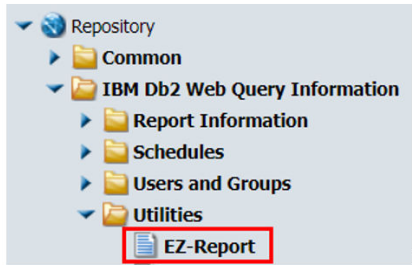
For more information on the data management, refer to the Documentation link on the Web Query wiki at:

<http://ibm.biz/db2wqwiki>

## EZ-Report

EZ-Report is a utility located in the IBM Db2 Web Query Information folder. As the name implies, EZ-Report allows for simple, fast creation of a report. Once you specify an SQL statement or a file/table, and the name and location for the report, the report and underlying metadata are created automatically.

The IBM Db2 Web Query Information folder is available to Web Query administrators. The following image shows the location of the utility in the repository tree.



EZ-Report provides a jump-start when getting started with the Web Query product or working a proof of concept evaluation. It removes the complexity of first having to create the metadata, by automatically generating metadata for the SQL statement. It quickly gives you a report using your own data.

You can easily customize the report. For example, you can add subtotals, create additional filters, add traffic lighting, or add drill downs. You can imbed the report into documents or executive dashboards. You can reuse the metadata for other reports or share it in the server path of other application folders.

For more information on EZ-Report, refer to the Documentation link on the Web Query wiki at:

<http://ibm.biz/db2wqwiki>

## Prerequisites

The following topic describes prerequisites for Db2 Web Query 2.3 GA.

- ☐ Db2 Web Query 2.3.0 is supported on IBM i 7.3 and 7.4.
- ☐ For 2.3.0, Windows 10 is required for the Windows client interfaces.
- ☐ The 5770JV1 option 17 - Java SE 8 64-bit Java option must be installed.
- ☐ Additionally, on IBM i 7.3, one or both of the following PTFs must be applied:
  - ☐ 5770JV1 PTFs SI62011 and SI61994
  - ☐ Java group PTF SF99725 level 3 or higher

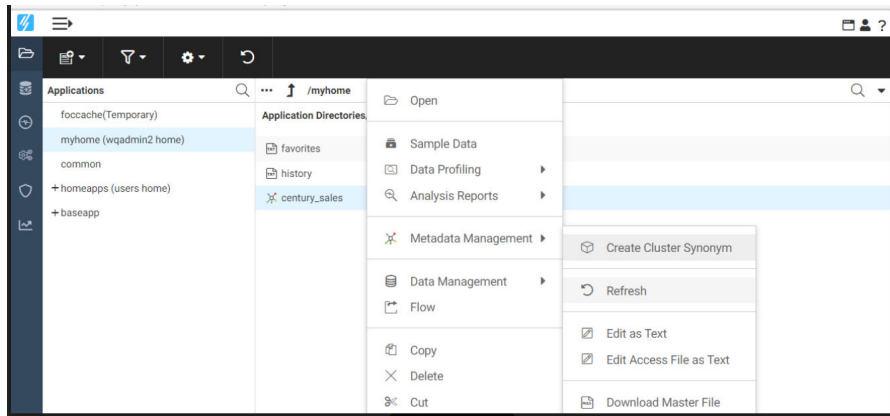
## Changes in Behavior

The following topics describe changes in behavior for Db2 Web Query 2.3 GA.

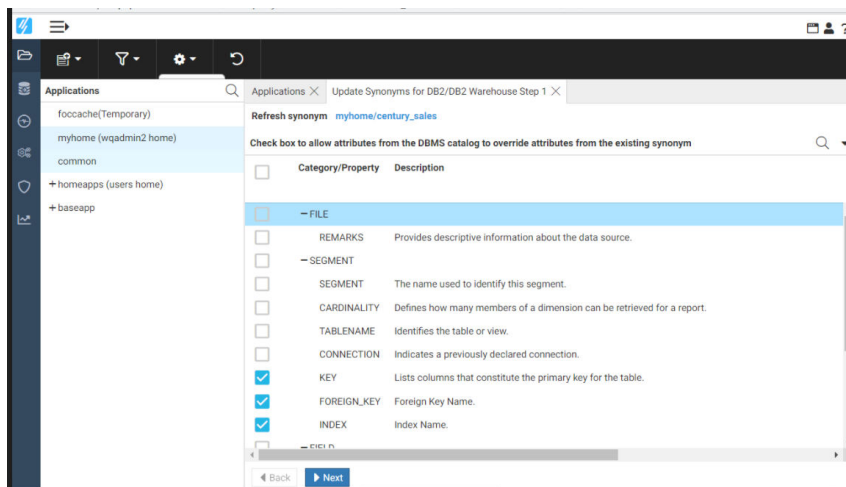
## Developer Workbench

The context menu for synonyms is removed. In order to refresh a synonym, you need to use the Web Query Reporting Server Console.

1. From the Console, right-click the synonym, select *Metadata Management*, and then select *Refresh*, as shown in the following image.



The Refresh synonym pane opens, as shown in the following image.



2. Select the DBMS catalog columns for your requirements from the list. This will override attributes from the existing synonym.
3. Click Next.

## Validation Lists for RUNWQFEX

A security enhancement to Web Query validation lists requires that existing validation lists specified on the Run Web Query Fex (RUNWQFEX) command be recreated for release 2.3.0. To recreate a validation list, use the Create Web Query Password (CRTWQPWD) command. If the validation list is not recreated, the RUNWQFEX command will fail with message QWQ0633.

## EZ-Report

Early versions of EZ-Report, which were available for release 2.2.1 running group PTF level 8 or 9, included a utility to register credentials for creating and publishing the report in the Web Query repository. EZ-Report now includes a Validation List parameter for providing the credentials. For more information on the parameter or how to create the validation list, refer to the EZ-Report topic on the wiki at <http://ibm.biz/db2wqwiki>.

## Developer Workbench Download

Users of the Developer Workbench client must download and install the release 2.3.0 files on their workstation. It is important that the release and fix level of the client match that of the Web Query Reporting Server running on the IBM i. To install the client, download the following five files from /qibm/proddata/qwebqry/DeveloperWorkbench to a folder on the Windows workstation, then run the .exe file:

```
/qibm/proddata/qwebqry/DeveloperWorkbench/WQDevWork230.sfx.part1.exe  
/qibm/proddata/qwebqry/DeveloperWorkbench/WQDevWork230.sfx.part2.rar  
/qibm/proddata/qwebqry/DeveloperWorkbench/WQDevWork230.sfx.part3.rar  
/qibm/proddata/qwebqry/DeveloperWorkbench/WQDevWork230.sfx.part4.rar  
/qibm/proddata/qwebqry/DeveloperWorkbench/WQDevWork230.sfx.part5.rar
```

## WQRAX Properties

Credentials in the WQRAX properties file are encrypted. To change the credentials, for example, if the password expires or you want to specify a different user ID, go to:

<http://<server>:12331/wqrax/config>

## Port Usage

Db2 Web Query release 2.3.0 uses ports in the range 12331 to 12339. Port 11331 is no longer used.

## Health Checker

The Web Query health checker is a diagnostic tool used by IBM Service. Output from the tool is relocated to /tmp/qwebqry/healthchecker.

## Group PTF Numbers

The group PTF numbers reserved for Db2 Web Query release 2.3.0 are:

- ☐ SF99533 V7R3M0
- ☐ SF99654 V7R4M0

## Parameter Prompting

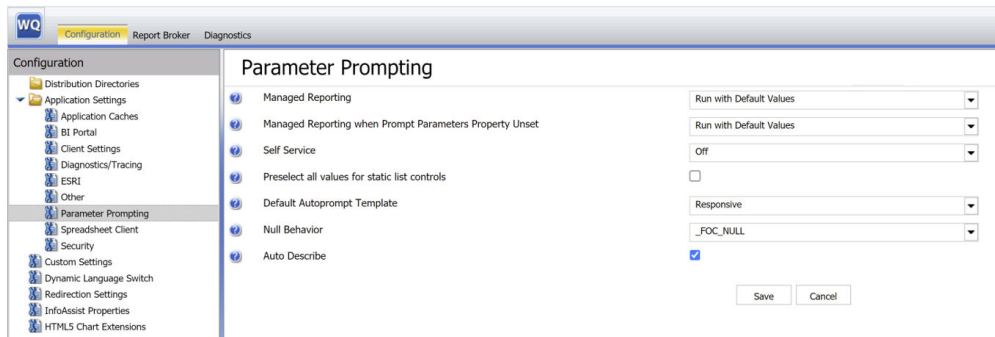
The default behavior for Parameter Prompting settings can be different between reports created in Designer and reports created in InfoAssist.

There are three settings to be aware of:

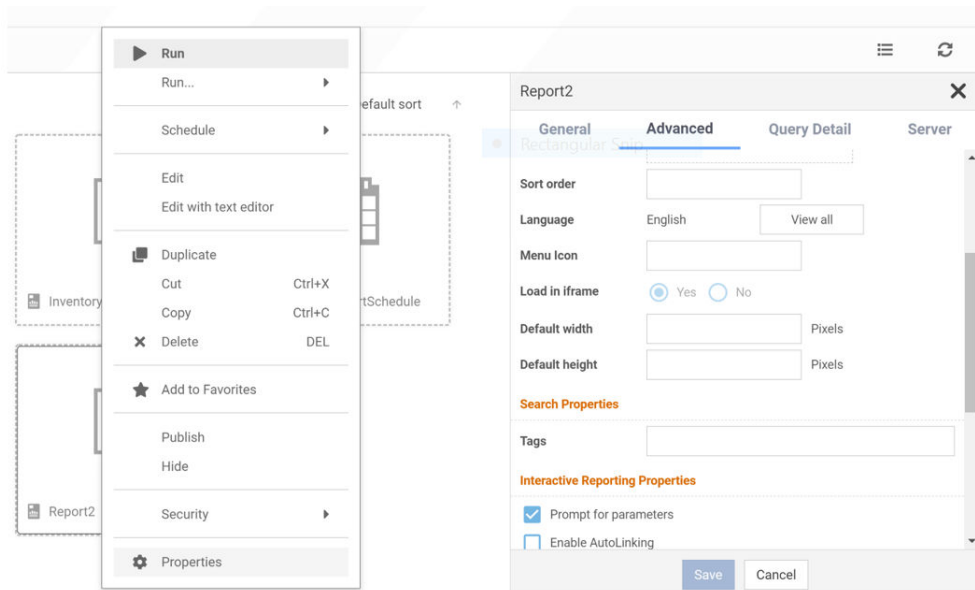
- ☐ Managed Reporting
- ☐ Managed Reporting When Prompt Parameters Property Unset
- ☐ Prompt for Parameters

The first two settings are found in the Administration Console on the Parameter Prompting page. The third setting is found in the Advanced section in the Properties dialog box of an individual report.

The following image shows the Parameter Prompting settings in the Administration Console.



The following image shows the Parameter Prompting setting in the Properties dialog box of a report.



For more information about these settings, see the *Administering Db2 Web Query* section of the 2.3.0 Product Manual at <http://ibm.biz/db2wq-prodman>.

For reports created in Designer that allow users to select the output format at runtime, the Managed Reporting setting in the Administration Console must be changed to Always Prompt and the Prompt for Parameters setting in the Properties of the report must be checked for the output format prompt to display.

The following image shows the Select at runtime output format for a report created in Designer.

The image shows a settings window with two tabs: 'Settings' and 'Format'. The 'Format' tab is active. Under the 'Format' tab, there is a 'General' dropdown menu. Below it, there is a 'Theme' section with a 'Theme' dropdown menu set to 'Midnight'. At the bottom, there is an 'Output Format' dropdown menu set to 'Select at runtime'.

The following image shows the Managed Reporting set to Always Prompt in the Administration Console.

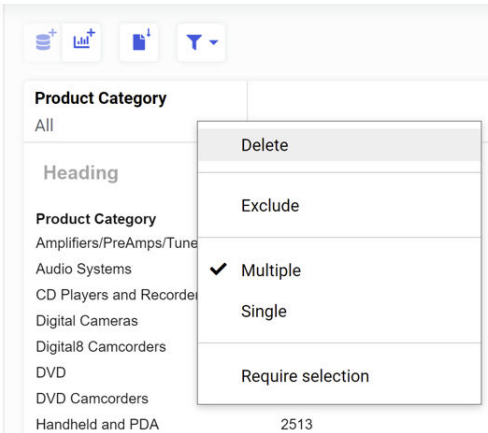
The image shows a 'Parameter Prompting' configuration window. On the left, there is a list of settings with expandable icons: 'Managed Reporting', 'Managed Reporting when Prompt Parameters Property Unset', 'Self Service', 'Preselect all values for static list controls', 'Default Autoprompt Template', 'Null Behavior', and 'Auto Describe'. On the right, the 'Managed Reporting' setting is expanded, showing a dropdown menu set to 'Always Prompt'. Other settings include 'Managed Reporting when Prompt Parameters Property Unset' (Run with Default Values), 'Self Service' (Off), 'Preselect all values for static list controls' (unchecked), 'Default Autoprompt Template' (Responsive), 'Null Behavior' (\_FOC\_NULL), and 'Auto Describe' (checked). At the bottom right, there are 'Save' and 'Cancel' buttons.

The following image shows the Prompt for parameters property checked in the Properties of a report.

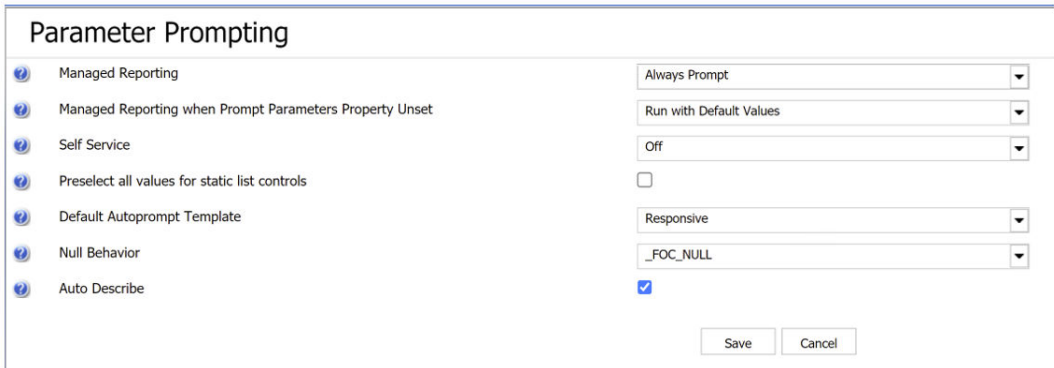
The image shows a report properties window titled 'DesignerReport'. It has four tabs: 'General', 'Advanced', 'Query Detail', and 'Server'. The 'Advanced' tab is active. Under the 'Advanced' tab, there is a section titled 'Interactive Reporting Properties'. Below this section, there is a checkbox labeled 'Prompt for parameters' which is checked.

For reports created in Designer or InfoAssist that have an optional prompt, the Managed Reporting setting in the Administration Console must be changed to Always Prompt and the Prompt for Parameters setting in the Properties of the report must be checked for the Output Format prompt to display. The default is to run with all values.

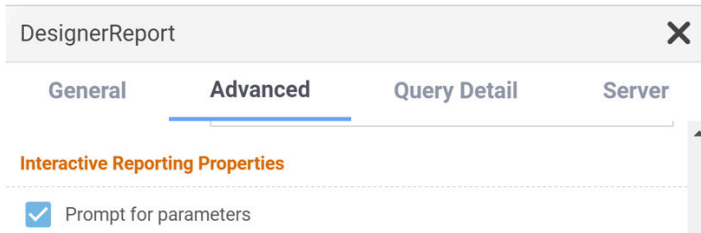
The following image shows the Optional prompt in a report created in Designer.



The following image shows the Managed Reporting set to Always Prompt in the Administration Console.

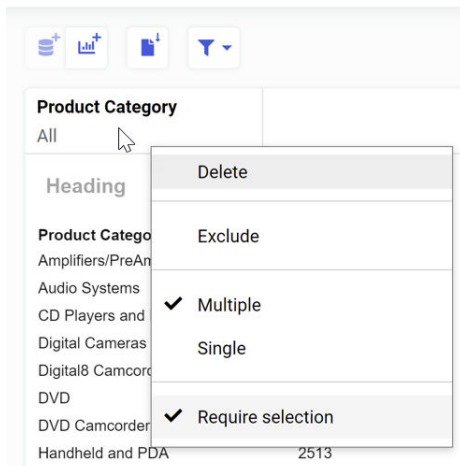


The following image shows the Prompt for parameters property checked in the Properties of a report.



Note that reports created in Designer or InfoAssist that use required prompts do not require any changes to settings for the prompt to display.

The following image shows the Required prompt in a report created in Designer.



## Known Issues

The following topics describe known issues in Db2 Web Query.

### Db2 Web Query Designer

This following is a known issue for Db2 Web Query Designer.

- ❑ Db2 Web Query Designer does not yet support running a chart with an output format that embeds graphics, such as PDF and Excel. When creating charts with embedded graphics formats, you can use InfoAssist, available from the Legacy Home Page.

## Insights

This following is a known issue for Insights.

- ❑ The Insights icon fails to render on the Designer sidebar. This will be resolved in group PTF level 1.

## REST-Based Application Extension (WQRAX)

This section addresses the known issues for the REST-Based Application Extension (WQRAX).

- ❑ Certain types of reports, including visualizations which utilize some maps, will not render properly when invoked through 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.

**Workaround:** Either edit and save the HTML file in the Developer Workbench HTML canvas, which will make the changes automatically, or edit and save the HTML dashboard 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

- ❑ The Upload Wizard fails in BI portal (Legacy mode).

- ❑ 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.

- ❑ 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 Metadata Wizard fails in BI portal (Legacy mode).
- ❑ 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

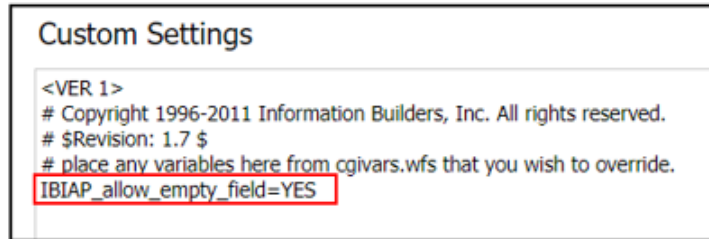
This section addresses the known issues for InfoAssist.

- ❑ The 2014 Demographic layers do not render on an ESRI map.
- ❑ At run time, a report will fail if empty filter values are entered for simple parameter prompts. To resolve the issue, the Web Query administrator can configure a setting to allow empty values, as follows.

1. In the Administration Console, on the *Configuration* tab, click *Custom Settings*.
2. To permit the use of empty fields in filter prompts, type the command:

```
IBIAP_allow_empty_field=YES
```

Type it under the final comment statement at the top of the Custom Settings text box or under the most recent custom setting entry, as shown in the following image.



3. To store the settings in an encrypted format, select the *Encrypt* check box.
4. When your configuration is complete, click *Save*.
5. When you receive a confirmation message, click *OK*.
6. When the Custom Setting page clears, click *Custom Settings* under the Application Settings folder to see your updated comments, settings, or commands in the Custom Settings text box.
7. If you later decide to prohibit the use of empty fields, change the command to:

```
IBIAP_allow_empty_field=NO
```

Alternatively, you can delete the following command from the Custom Settings page or convert it to a comment if you plan to reactivate this feature.

```
IBIAP_allow_empty_field=YES
```

8. When your configuration is complete, click *Save*.

## JD Edwards Adapters

This section addresses the known issue 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 issue 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.

## Spreadsheet Client

This section addresses the known issue for Spreadsheet Client.

- ❑ HTML report data is not written into Excel.
- ❑ The incorrect add-in (.xla) file is included.
- ❑ Populating a spreadsheet using a large Excel Add-in request (25 columns, 200K rows) does not return output.

## National Language Support

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

- ❑ When the Reporting Server runs in CCSID 285, HTML dashboards fail with JavaScript errors if running in a Firefox or Internet Explorer browser. This is caused by an encoding problem in the IBM Websphere Application Server plugin. To resolve the problem, apply the following PTF for your release level of product 5770DG1:
  - ❑ 7.3: SI69363
- ❑ Some of the Retail Sample reports will not run in NLS or DBCS languages. This issue will be resolved in an upcoming PTF.

## 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.

- ☐ When using the Create Synonym utility in Legacy mode, no feedback is returned after clicking *Add*.
- ☐ 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. To create Query/400 synonyms, right-click a folder and select the *Metadata New* option.
- ☐ Creating a synonym for a Query/400 file fails when it is launched from a subfolder.

## Advisories

The following topics describe advisories for Db2 Web Query.

### Esri Mapping Demographic Layers 2010-2014 Retirement Statement

The Esri® Mapping Demographic Layers for years 2010, 2011, 2012, 2013, and 2014, which can be used with Web Query, will no longer be supported as a result of their [retirement by Esri](#). In a future release or hotfix, you will no longer be able to configure these layers. If you have charts created in Web Query InfoAssist that reference these layers, you must manually edit them to remove the reference, otherwise these layers may not render.

The following Demographic Layers have been retired by Esri and may not be available in Web Query:

- ☐ USA Health Care Spending 2014
- ☐ USA Population Change 2000-2010
- ☐ USA Population Change 2010-2012
- ☐ USA Population Density 2012
- ☐ USA Population Density 2013
- ☐ USA Population Density 2014
- ☐ USA Population Older than Age 64

- ☐ USA Population Younger than Age 18
- ☐ USA Projected Population Growth 2012-2017
- ☐ USA Restaurant Spending 2014
- ☐ USA Tapestry Segmentation 2012
- ☐ USA Tapestry Segmentation 2014
- ☐ USA Unemployment Rate 2012

To learn more about the retirement of layers from Esri, visit <http://doc.arcgis.com/en/esri-demographics/reference/legacy-demographic-maps.htm>.

## Browser Information

The following topics describe information for the available web and mobile browsers for Web Query 2.3.

### Web Browsers

The following browsers are certified for Web Query and Developer Workbench.

- ☐ Microsoft Edge™ 85
- ☐ Internet Explorer® 11
- ☐ Google Chrome™ 86
- ☐ Mozilla Firefox® 81

### Release 2.3 Notes

- ☐ Simple HTML Web Query reports can be viewed on any browser.
- ☐ Chart/Graph request notes:
  - ☐ *Browser-generated graphs* refer to graphs that are rendered inside the browser using HTML5 (and JavaScript). Browser-generated graphs are utilized in both standard HTML5 output ("FORMAT JSCHART"), and in Active Technologies ("FORMAT AHTML").
  - ☐ *Server-generated graphs* refer to 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
- ☐ 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 when distributed by Report Broker) supports image inclusion through the creation of a web archive file (.mht). For all other browsers, images are base64 encoded within the generated .htm file.
- ☐ Drill-down links do not work when using an embedded PDF viewer available in some browser versions. Refer to the browser's configuration information on how to change the Application Options settings for the relevant content types so that the browser will automatically use Adobe Reader.
- ☐ Adobe Reader support:
  - ☐ Acrobat Reader DC is certified
  - ☐ Adobe XI is supported
  - ☐ Adobe X is supported
- ☐ If you are using Internet Explorer® 11 on a Windows® 2012 R2 OS and you attempt to run an object (such as a report or chart in InfoAssist), Internet Explorer 11 opens it in a new window instead of targeting the object to a specific frame. For example, in InfoAssist, the New Window Runtime opens a new browser window that shows the running image, which then replaces that page with the output. Since Internet Explorer 11 does not allow the replacement of that window, it opens a new window instead.

This browser limitation can be remedied by an administrator. For more information, see <https://social.msdn.microsoft.com/Forums/ie/en-US/a5c294e2-e407-491d-ba6a-b7f7edbcabaf/ie11-cant-post-form-data-to-specific-frame-or-window-dialog-opened-via-windowopen?forum=iwebdevelopment>

## Mobile Browser Information

If you are planning to use Web Query on mobile devices, note the following regarding mobile browser support. If you will be using Web Query on the Windows operating system, see the Web Browser support information.

**Note:** Browsers released after the production date of a Web Query version are subject to certification.

InfoAssist is not supported on mobile devices.

The following devices were used in testing Web Query 2.3:

- ❑ iOS 12
- ❑ Android 8.0, 7.1
- ❑ Db2 Web Query mobile app

Usage Considerations:

- ❑ Report Broker interfaces are supported on tablets.
- ❑ HTML reporting Table of Contents (BYTOC) feature is not supported.
- ❑ Viewing PDF, Excel, and PowerPoint documents may require a third-party helper app.
- ❑ To open active report content, JavaScript needs to be enabled in your web browser. On mobile devices, please use the Db2 Web Query mobile app. If not installed, download it from the App Store for iOS devices or from the Google Play Store for Android devices.



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