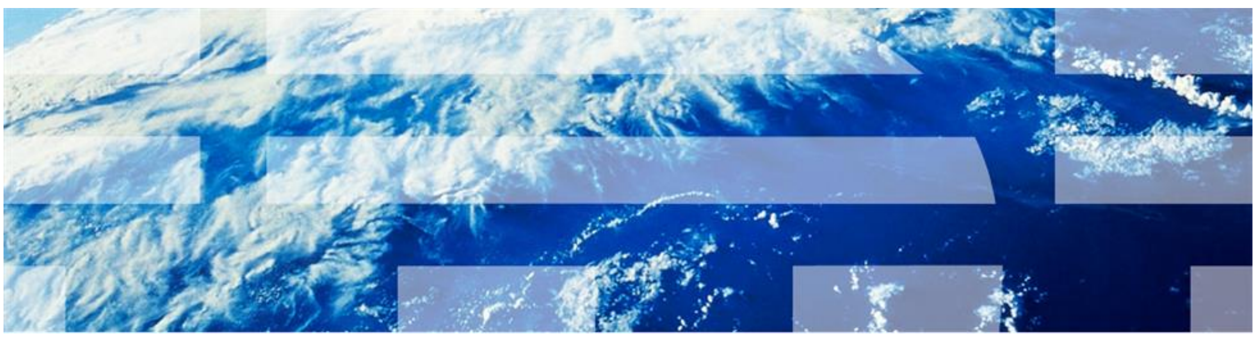
DB2 Web Query EZ-Install Query/400 Discovery Tool Usage Instructions



Updated January 2017

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Overview

The DB2 Web Query EZ-Install package includes DB2 Web Query products, sample reports, and more. One of the tools included is a Query/400 Discovery Tool. This tool is designed to learn more about the existing Query/400 definitions (reports) you have on your system in order to build a strategy that:

- Eliminates obsolete reports
- Consolidates redundant (similar in nature) reports
- Modernizes those that would get the most value by converting into DB2 Web Query

If you are reading this out of the scope of the EZ-Install package (perhaps you found this document and were curious about this tool), you can obtain the tool as a standalone package by requesting it from QU2@us.ibm.com

The Query/400 Discovery Tool is used to find all Query/400 Query Definition (*QRYDFN) objects on your system, retrieve their attributes, and sort them into a series of tables. The data in these tables can then be analyzed to find trends in your reporting environment.

Through the EZ-Install package, the tool has been stored in a library/schema called QRY400DSC. When you run the command (documented below) you will need to specify an output library that will contain the output files from the discovery execution.

Once you've run the tool to generate the output files, you can use the supplied DB2 Web Query reports to glean information from that data. Below you will see how to do this

Discovery Tool Steps

1. Run the Discovery Tool: DSCQRYOBJ (Discover Query/400 Objects) command

Once the tool is installed, in can be invoked using the QRY400DSC/DSCQRYOBJ command from a CL command line. By pressing F4 you see the command parameters as show below.

```
           Discover Query/400 objects (DSCQRYOBJ)

Type choices, press Enter.

Query . . . . . . . . . . . . . .    __________    Name, *ALL
  Library . . . . . . . . . . . .      *ALL        Name, *ALL
Discovery collection library . .    __________    Name
Discovery stages to execute  . .    *ALL          *ALL, *COLLECT, *PARSE

                           Additional Parameters

Output . . . . . . . . . . . . .    *NONE         *NONE, *PRINT
Replace or add records . . . . .    *REPLACE      *REPLACE, *ADD
```

```
Stage 1 holding library  . . . .   *COLLIB        Name, *COLLIB
Debug level  . . . . . . . . . .   0              0, 1, 2
```

Each of the parameters is described below.

Required parameters

- **QUERY** (Query name and Library)
  Specify the name of the query and its library that you want to discover. Specify *ALL to discover all query objects in the specified library. For the library portion of this parameter, specify *ALL to discover query objects in all libraries on the system.
- **COLLIB** (Discovery collection library)
  - Specify the name of the library (schema) that will contain the output tables generated by the tool. If the collection library (and tables) do not exist, the tool will automatically create them.
- **STAGE** (Discovery stages to execute)
  - ***COLLECT** – Executes only stage 1 of the process. This stage issues the PRINT_QUERY_DEFINTION stored procedure against all of the specified query objects. This information is collected and consolidated in a single "flat" file named QRYDFNTOUTF and resides in the library specified in the COLLIB parameter. The QRYDFNOUTF file can then be saved and sent to IBM for further analysis.
  - ***PARSE** – Executes only stage 2 of the discovery process. This stage reads the QRYDFNOUTF (in the library specified in the COLLIB parameter) and parses all of the individual elements (pieces of information) of each query. Each element is then extracted and stored in columns within a series of tables (in a relational database model) where it can be more easily harvested and analyzed. This database model and each of the tables are described in section ***Tables generated by the tool.***
  - ***ALL –** Executes both stages 1 and 2 as described above. This is the default value.

Additional parameters

- **OUTPUT**
  This parameter is no longer used and is only preserved for compatibility of previous versions of the tool.
- **DTAOPT** (Data option – replace or add records)
  Indicates if you want to replace all of the records in the output tables or append new records to them. Can be used to incrementally add information about queries to existing tables.
  - ***REPLACE –** Clears (removes all records) the output tables before adding records.
  - ***ADD –** Preserves all records in the tables so that incremental additions can be made. If the specific query (queries) that you are discovering are already in the tables, they will be removed first.
- **HLDLIB** (Stage 1 holding library)
  Specifies the name of the library that will contain the hold file generated during stage 1 of the

process. The information for all queries that match the specified input parameters will be directed to a flat hold file named QRYDFNOUTF. This library will contain that hold file. Stage 2 of the discovery process reads the hold file, extracts all the information, and writes it to the relational database tables. HLDLIB should only be changed from the default of *COLLIB if you want to run multiple instances of the command in parallel. In those cases, it is advised that you specify library QTEMP for the HLDLIB value.
Possible values for HLDLIB are:
  - ***COLLIB –** The hold file is created in the same library specified in the COLLIB parameter.
  - library-name

- **DBGLVL** (Debug level)
  Indicates the level of debugging that is to be logged in the spooled file. Useful for determining what transpired during the discovery process. Possible values are:
  - **0 –** No debug messages are logged and no spooled file is generated.
  - **1 –** Basic debugging messages are logged and a spooled file QSYSPRT with a userdata value of QRY400DSC is generated. This basic information include values of input parameters, errors that occurred, and lines of data in QRYDFNOUTF that could not be interpreted and extracted.
  - **2 –** Detailed level of debugging messages are logged and a spooled file QSYSPRT with a userdata value of QRY400DSC is generated. Includes all information available in level 1 and additional information.

Sample commands

QRY400DSC/DSCQRYOBJ QRY(MY_LIB/MY_QUERY) COLLIB(QRYDSCOUT)

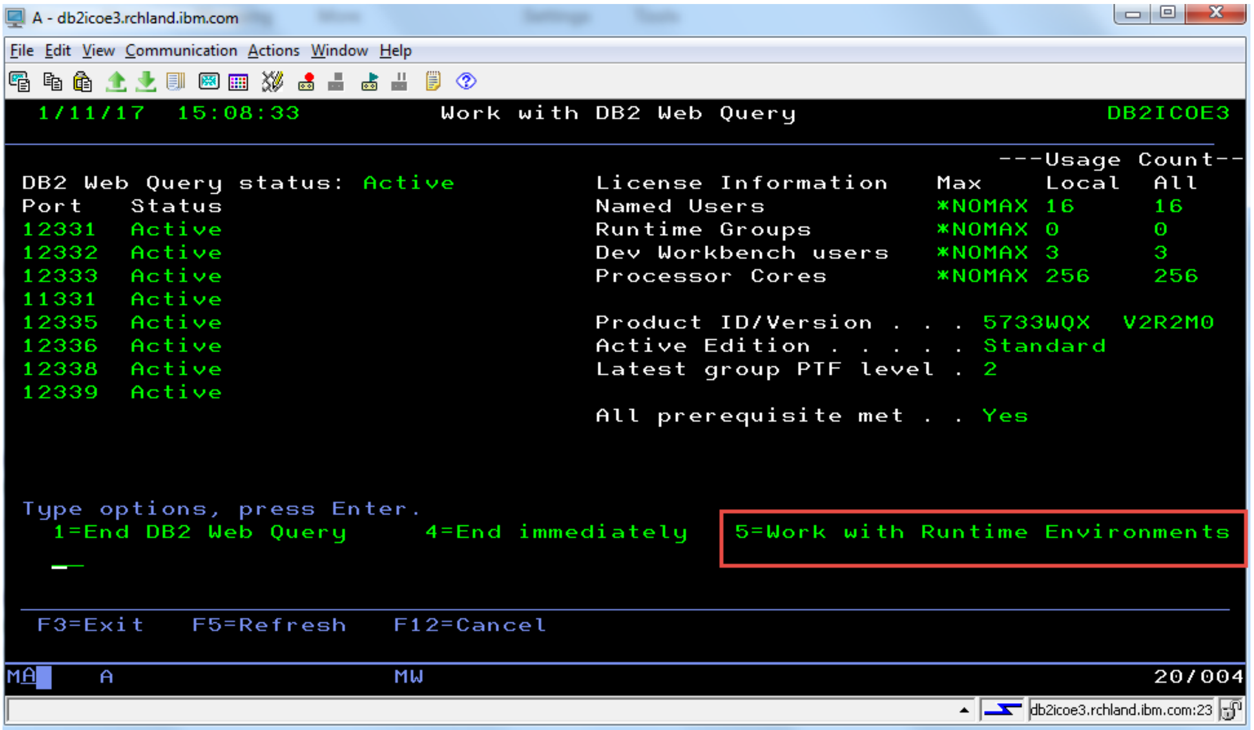
QRY400DSC/DSCQRYOBJ QRY(MY_LIB/*ALL) COLLIB(QRYDSCOUT)

QRY400DSC/DSCQRYOBJ QRY(*ALL/*ALL) COLLIB(QRYDSCOUT)

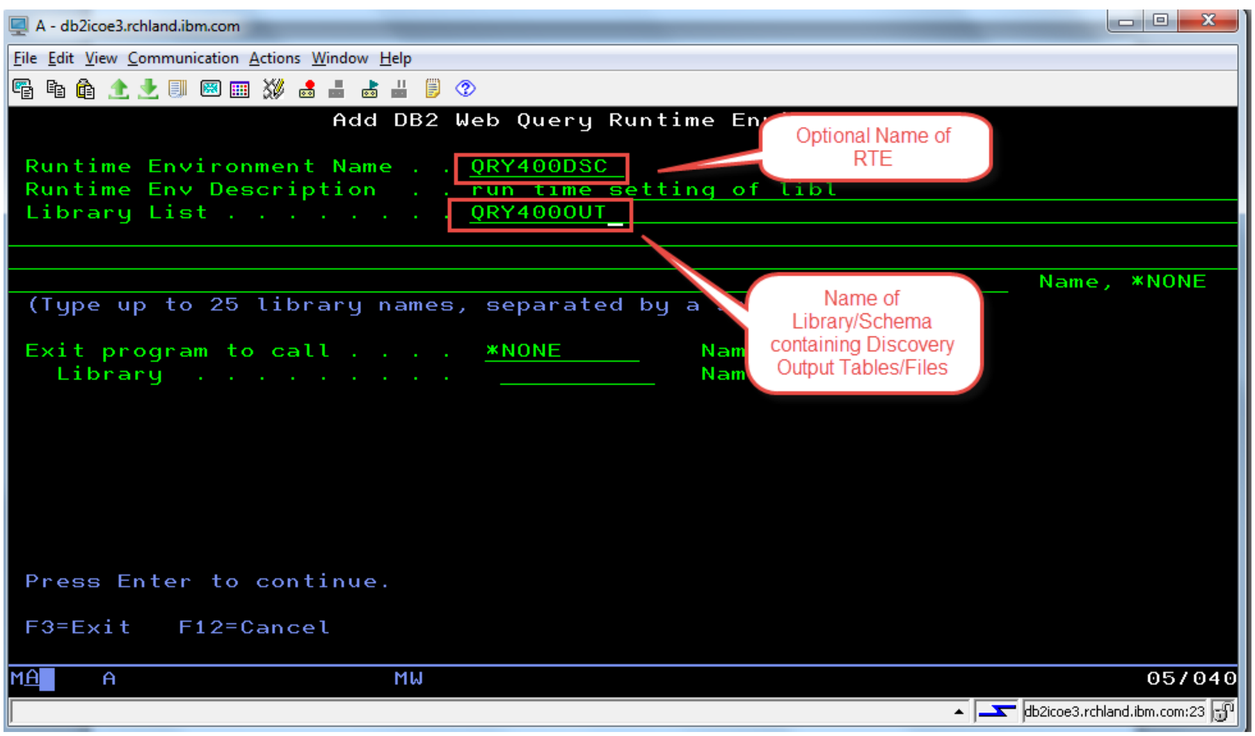
2. Prepare DB2 Web Query to Run Reports over the Output Tables

Make note of the library/schema containing the output of the above CL Command. In order for you to run the sample reports that came with the EZ-Install package, you’ll need to set up a “Run Time Environment” to set your library list to point to that library list.

Enter command WRKWEBQRY from a 5250 screen. Select Option 5 to Work with Run Time Environments:

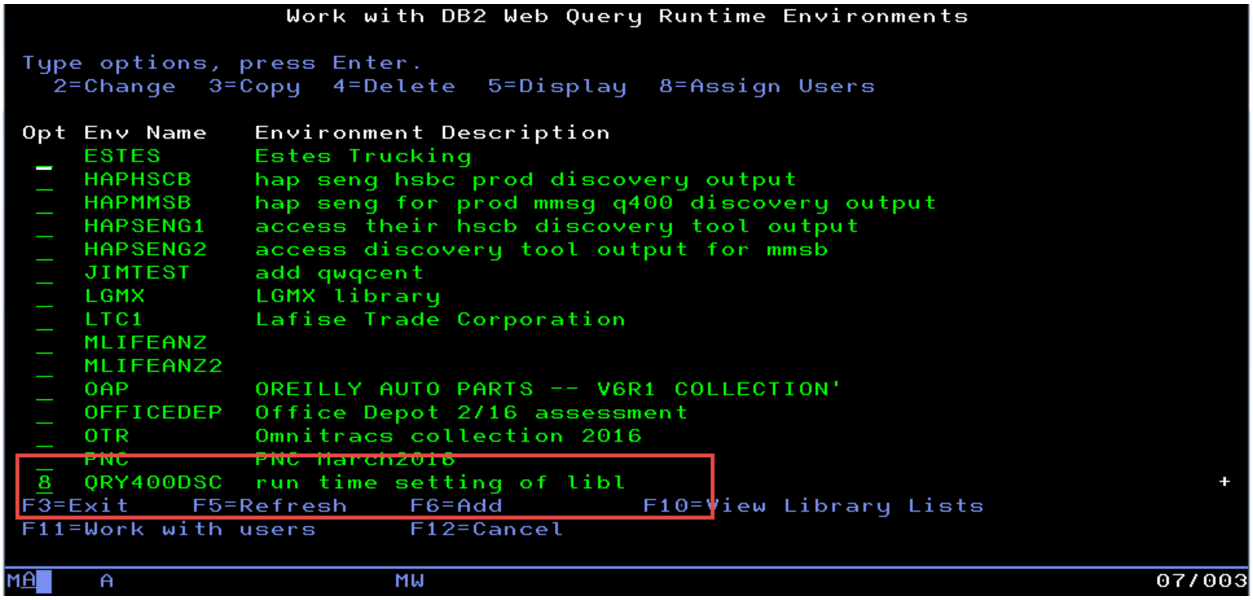


Select F6 to ADD a new “Run Time Environment”:

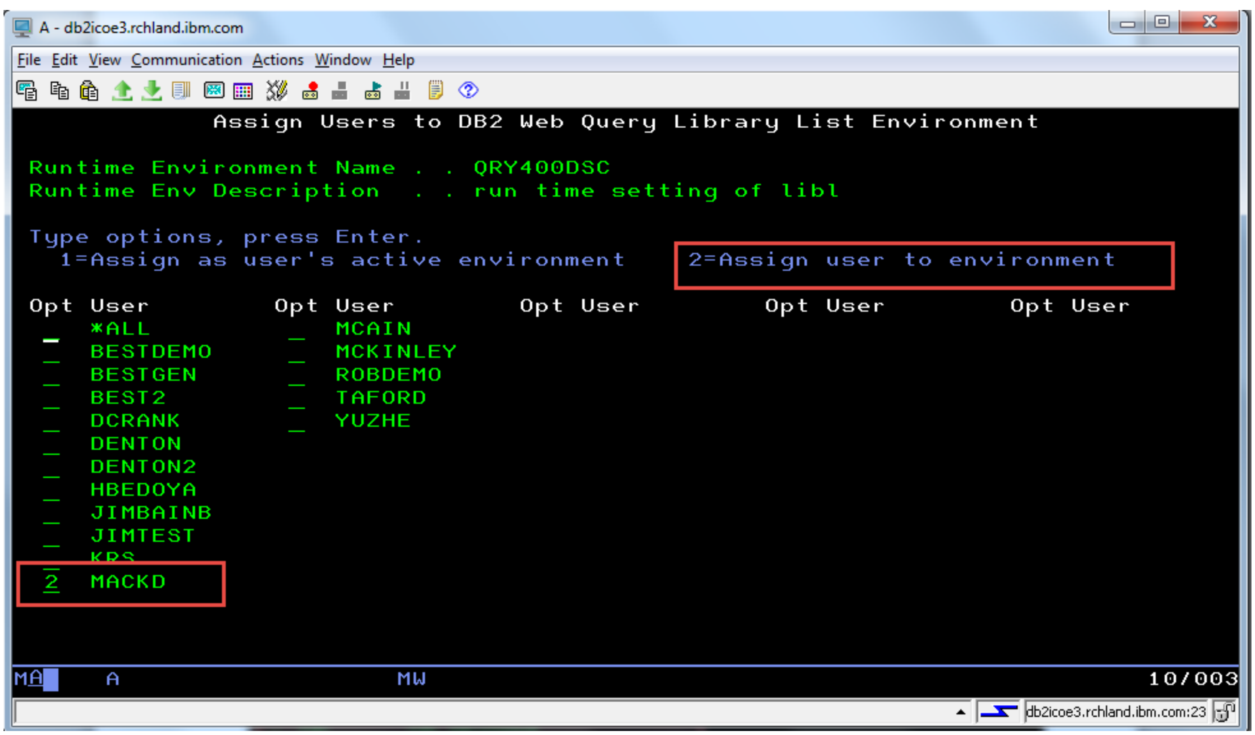


Hit Enter.

Add user authorization to that Run Time Environment. Select option 8 next to the Run Time Environment you just created (in this case, QRY400DSC):



Allow a user to select this Run Time Environment by adding option 2 to that userID. Option 1 makes this run time environment the default. In this case, probably best to make this an option 2, or choose-able run time environment versus setting as the default:

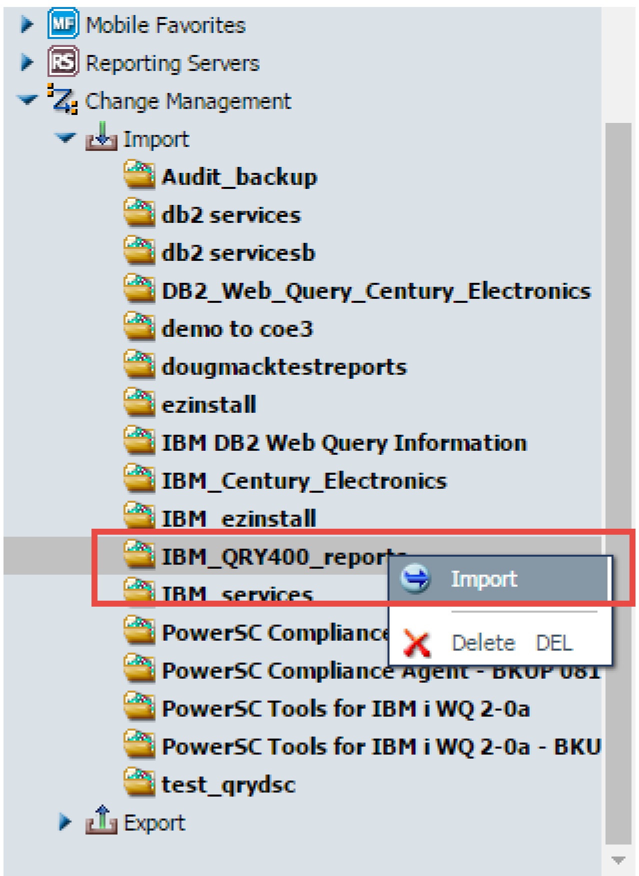


Hit Enter and then F10

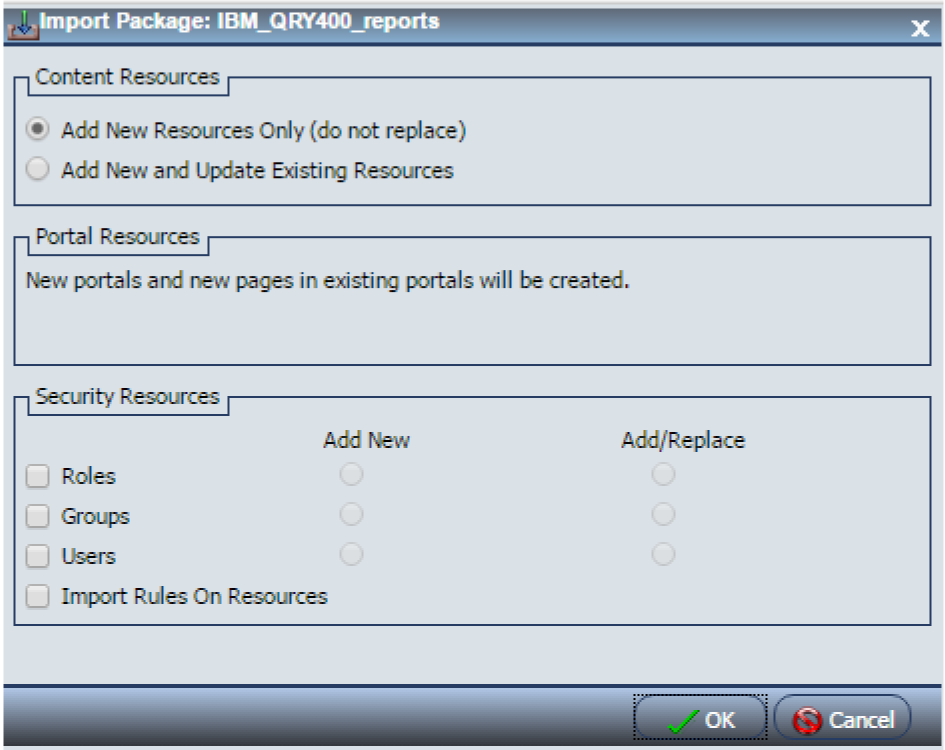
3. Import the Query/400 Discover Reports

Sign into DB2 Web Query using your user ID that you just enabled to this new run time environment and/or a user that has DB2 Web Query Administration authorization.

Import the Query/400 Discovery change management package by scrolling down on the resources (folder tree), expanding the Change_Management and IMPORT folders, and right clicking on the IBM_QRY400_Reports icon. Click on Import.

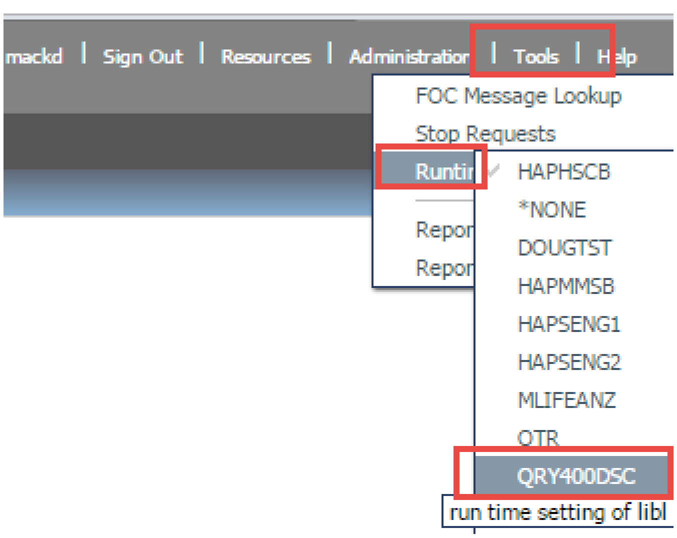


You can choose to add new resources only, or add new and update existing resources if you had a previous version of this installed. Click OK.



4. Select the Run Time Environment that Sets your Library List

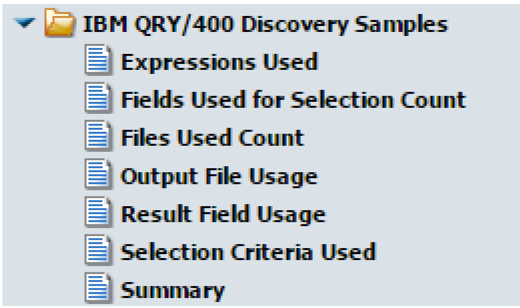
Make sure you're signed into DB2 Web Query with the userID you enabled to use the Run Time Environment you created in Step 2. In the upper right hand corner, select tools, and you'll see a list of Run Time Environments you've been enabled to choose from. Choose the QRY400DSC Run Time Environment:



This sets your library list to include the library containing the Discovery output tables library.

5. Run the Sample Reports Provided in EZ-Install

You should see a top level folder called IBM_QRY/400 Discovery Samples. In this folder are some sample reports over the files outputted from the Discovery tool.



You should be able to run these and develop a high level view of your Query/400 definitions and spot such things as:

- How many queries do I have?
- Which files are getting used the most in these queries?
- Which fields are being used the most as output fields or selection critieria?
- What are some of the date characteristics, like last used? (note that sometimes the last date field can be erroneous simply because of an update to that by HA/DR software or other save/restore activities).

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Query/400 Discovery Output Summary

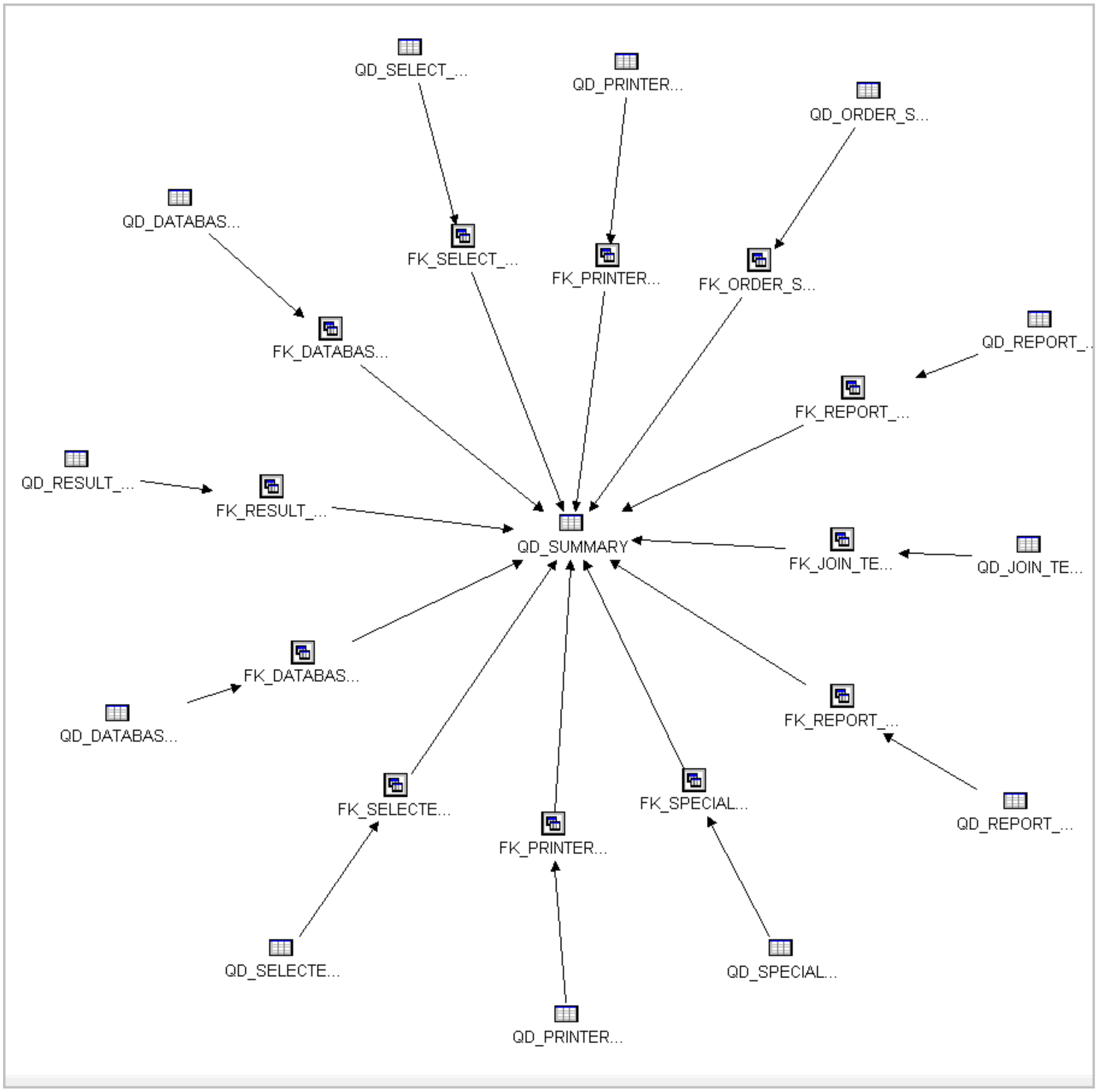
Query Library	Query Name	QRY_CREATOR	Query Owner	QRY_CREATION_DATE Y-M-D	QRY_CHANGE_DATE Y-M-D	QRY_LAST_USED_DATE Y-M-D	Query ID	QRY_DAYS_USED	QRY_SIZE
	CHAINQRY2	COBBG	QWQADMIN	2012/04/09	2016/03/22	1928/08/23	2	0	32768
	PARMQRY1	HGONGORA	QWQADMIN	2012/06/14	2016/03/22	1928/08/23	3	0	36864
QWQCENT	CHAINQRY1	COBBG	QWQADMIN	2012/04/09	2016/03/22	2016/12/15	1	1	32768
	REVGPFTQRY	JJANSEN	QWQADMIN	2007/08/16	2016/03/22	2016/12/13	4	4	12288

If you are interested in some assistance in analyzing this data and building a plan to import or convert to native DB2 Web Query as well as other Query/400 modernization factors, the DB2 for i Lab Services does have a Query/400 modernization offering. As part of that offering, additional analysis tools and conversion tools can be utilized to simplify your modernization project.

Read about this at http://ibm.biz/db2wqconsulting or reach out the team at QU2@us.ibm.com.

Tables generated by the tool

Once the command is run, the following tables are created. A brief description of each table's contents is also provided. The long/SQL name is listed first and the short/DDS name is in parenthesis. Remember, these will be in the schema/library you provided on the second parameter of the command.



QRYDFNOUTF (QRYDFNOUTF)

This table is created (in the library specified for the HLDLIB parameter) and populated during the collection stage. It is used to store the consolidated output of the PRINT_QUERY_DEFINITION stored procedure. It is then read during the stage 2 parsing/extraction process. This file should NOT be used for analysis as it is merely the holding table that is consumed during stage 2. The only reason this temporary table is not removed after the completion of stage 2 is for debugging purposes. If problems occur during the discovery process, this table can be saved and sent to IBM where it can be used in a debugging process.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
LINE	CHAR	380	LINE

QD_SUMMARY (QD_SUMMARY)

This table contains one row per query definition. It provides high level information such as the query's library and name as well as the output type. This table also contains the generated QUERY_ID value which is the link from this master table to all other tables below (always join on A.QUERY_ID=B.QUERY_ID).

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	Query ID. Use this to join to all other tables.
QRY_LIBRARY	CHAR	10	Query Library
QRY_NAME	CHAR	10	Query Name
QRY_TEXT	CHAR	50	Query Text
QRY_CCSID	INTEGER	4	Query CCSID
QRY_LANGUAGE_ID	CHAR	3	Query Language ID
QRY_COUNTRY	CHAR	2	Query country or region id
QRY_DATE_FORMAT	CHAR	8	Query Date Format
QRY_DATE_SEPARATOR	CHAR	1	Query Date Separator
QRY_TIME_FORMAT	CHAR	8	Query Time Format
QRY_TIME_SEPARATOR	CHAR	1	Query Time Separator
QRY_DECIMAL_SEPARATOR	CHAR	1	Query Decimal Separa
QRY_COLLATING_SEQUENCE	VARCHAR	32	QRY_COLLATING_SEQUENCE
QRY_SORT_SEQUENCE_CCSID	INTEGER	4	Query Sort Sequence CCSID
QRY_SORT_SEQUENCE_WEIGHTS	CHAR	10	Query Sort Sequence Weights
QRY_SORT_SEQUENCE_SUB_CHAR	CHAR	3	Query Sort Sequence Substitution Charac
QRY_ROUND	CHAR	3	Use Rounding
QRY_IGNORE_DEC_ERRORS	CHAR	3	Ignore decimal data errors
QRY_IGNORE_SUB_WARNINGS	CHAR	3	Ignore substitution warnings
QRY_USE_COL_SEQ_FOR_COMPARES	CHAR	3	Use collating for all compares
QRY_OUTPUT_TYPE	VARCHAR	16	Query Output Type
QRY_OUTPUT_FORM	VARCHAR	16	Query Output Form
QRY_LINEWRAP	CHAR	3	Line Wrapping
QRY_WRAP_WIDTH	SMALLINT	2	Wrapping Width
QRY_RECORD_ONE_PAGE	CHAR	3	Record on one page
QRY_PRINT_DEF	CHAR	3	Print Query Definition
QRY_DESCRIPTION_TEXT	CHAR	50	QRY_DESCRIPTION_TEXT
QRY_OWNER	CHAR	10	Query Owner
QRY_PRIMARY_GROUP	CHAR	10	QRY_PRIMARY_GROUP
QRY_CREATION_DATE	TIMESTMP	10	QRY_CREATION_DATE
QRY_CREATOR	CHAR	10	QRY_CREATOR
QRY_CHANGE_DATE	TIMESTMP	10	QRY_CHANGE_DATE
QRY_LAST_USED_DATE	TIMESTMP	10	QRY_LAST_USED_DATE
QRY_DAYS_USED	INTEGER	4	QRY_DAYS_USED
QRY_RESET_DATE	TIMESTMP	10	QRY_RESET_DATE
QRY_SIZE	BIGINT	8	QRY_SIZE
QRY_SAVE_DATE	TIMESTMP	10	QRY_SAVE_DATE
QRY_RESTORE_DATE	TIMESTMP	10	QRY_RESTORE_DATE

QD_SELECTED_FILES (QD_SLCFIL)

This table contains one row per file that is part of the query definition. It provides information such as library, file, and member names.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	Query ID (use to join to QD_SUMMARY)
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_SELECTED_FILE_ID	CHAR	6	QRY_SELECTED_FILE_ID
QRY_SELECTED_FILE_NAME	CHAR	10	QRY_SELECTED_FILE_NAME
QRY_SELECTED_FILE_LIBRARY	CHAR	10	QRY_SELECTED_FILE_LIBRARY
QRY_SELECTED_FILE_MEMBER	CHAR	10	QRY_SELECTED_FILE_MEMBER
QRY_SELECTED_FILE_RECORD_FORMAT	CHAR	10	QRY_SELECTED_FILE_RECORD_FORMAT

QD_JOIN_TESTS (QD_JOINTST)

This table contains one row per join test that is part of the query definition. It provides information such as the fields and the test operator.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	Query ID (use to join to QD_SUMMARY)
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_JOIN_TYPE	CHAR	50	QRY_JOIN_TYPE
QRY_JOIN_FROM_FIELD	CHAR	20	QRY_JOIN_FROM_FIELD
QRY_JOIN_TEST	CHAR	10	QRY_JOIN_TEST
QRY_JOIN_TO_FIELD	CHAR	20	QRY_JOIN_TO_FIELD

IBM

QD_RESULT_FIELDS (QD_RSLFLD)

This table contains one row per result (derived) field that is part of the query definition. It provides information about the result fields define in each Query/400 definition.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	Query ID (use to join to QD_SUMMARY)
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_RESULT_FIELD_NAME	CHAR	10	QRY_RESULT_FIELD_NAME
QRY_RESULT_FIELD_EXPRESSION	VARCHAR	256	QRY_RESULT_FIELD_EXPRESSION
QRY_RESULT_FIELD_COLUMN_HEADING	VARCHAR	20	QRY_RESULT_FIELD_COLUMN_HEADING
QRY_RESULT_FIELD_LENGTH	INTEGER	4	QRY_RESULT_FIELD_LENGTH
QRY_RESULT_FIELD_DECIMAL_POSITIONS	INTEGER	4	QRY_RESULT_FIELD_DECIMAL_POSITIONS

QD_SELECT_RECORD_TESTS (QD_SLCRCD)

This table contains one row per record selection test that is part of the query definition. It provides information such as the field name, test operator, and test value.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	Query ID (use to join to QD_SUMMARY)
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_SELECTED_RECORD_AND_OR	CHAR	3	QRY_SELECTED_RECORD_AND_OR
QRY_SELECTED_RECORD_FIELD_NAME	CHAR	20	QRY_SELECTED_RECORD_FIELD_NAME
QRY_SELECTED_RECORD_FIELD_TEST	CHAR	10	QRY_SELECTED_RECORD_FIELD_TEST
QRY_SELECTED_RECORD_FIELD_VALUE	VARCHAR	4096	QRY_SELECTED_RECORD_FIELD_VALUE

QD_ORDER_SELECTED_FIELDS (QD_ORDFLD)

This table contains one row per ordered or selected field that is part of the query definition. It provides information such as the sequence, field name, and ordering criteria.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	Query ID (use to join to QD_SUMMARY)
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_FIELD_SEQUENCE_NUMBER	INTEGER	4	QRY_FIELD_SEQUENCE_NUMBER
QRY_FIELD_NAME	CHAR	20	QRY_FIELD_NAME
QRY_FIELD_SORT_PRIORITY	INTEGER	4	QRY_FIELD_SORT_PRIORITY
QRY_FIELD_ORDER	CHAR	1	QRY_FIELD_ORDER
QRY_FIELD_BREAK_LEVEL	CHAR	4	QRY_FIELD_BREAK_LEVEL
QRY_FIELD_TEXT	VARCHAR	128	QRY_FIELD_TEXT

QD_REPORT_COLUMN_FORMAT (QD_COLFMT)

This table contains one row per selected field that is part of the query definition. It provides information such as the field's format and edit words.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	Query ID (use to join to QD_SUMMARY)
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_CF_FIELD_NAME	CHAR	20	QRY_CF_FIELD_NAME
QRY_CF_SUMMARY_FUNCTIONS	CHAR	10	QRY_CF_SUMMARY_FUNCTIONS
QRY_CF_COLUMN_SPACING	SMALLINT	2	QRY_CF_COLUMN_SPACING
QRY_CF_COLUMN_HEADINGS	VARCHAR	64	QRY_CF_COLUMN_HEADINGS
QRY_CF_COLUMN_LENGTH	SMALLINT	2	QRY_CF_COLUMN_LENGTH
QRY_CF_COLUMN_DECIMAL_POSITION	CHAR	4	QRY_CF_COLUMN_DECIMAL_POSITION
QRY_CF_NULL_CAPABLE	CHAR	1	QRY_CF_NULL_CAPABLE
QRY_CF_OVERRIDE_COLUMN_LENGTH	SMALLINT	2	QRY_CF_OVERRIDE_COLUMN_LENGTH
QRY_CF_OVERRIDE_COLUMN_DECIMAL_POSITION	SMALLINT	2	QRY_CF_OVERRIDE_COLUMN_DECIMAL_POSITI
QRY_CF_NUMERIC_EDIT	CHAR	3	QRY_CF_NUMERIC_EDIT
QRY_CF_OVERRIDE_COLUMN_HEADING	CHAR	3	QRY_CF_OVERRIDE_COLUMN_HEADING
QRY_CF_OVERRIDE_COLUMN_SPACING	CHAR	3	QRY_CF_OVERRIDE_COLUMN_SPACING
QRY_CF_OVERRIDE_LENGTH_DECIMAL_POSITION	CHAR	3	QRY_CF_OVERRIDE_LENGTH_DECIMAL_POSITIO
QRY_CF_EDIT_OPTION	CHAR	3	QRY_CF_EDIT_OPTION
QRY_CF_DECIMAL_POINT_CHARACTER	CHAR	3	QRY_CF_DECIMAL_POINT_CHARACTER
QRY_CF_THOUSANDS_SEPARATOR	CHAR	3	QRY_CF_THOUSANDS_SEPARATOR
QRY_CF_SHOW_NEGATIVE_SIGN	CHAR	3	QRY_CF_SHOW_NEGATIVE_SIGN
QRY_CF_LEFT_NEGATIVE_SIGN	CHAR	3	QRY_CF_LEFT_NEGATIVE_SIGN
QRY_CF_RIGHT_NEGATIVE_SIGN	CHAR	3	QRY_CF_RIGHT_NEGATIVE_SIGN
QRY_CF_SHOW_CURRENCY_SYMBOL	CHAR	3	QRY_CF_SHOW_CURRENCY_SYMBOL
QRY_CF_LEFT_CURRENCY_SYMBOL	CHAR	4	QRY_CF_LEFT_CURRENCY_SYMBOL
QRY_CF_RIGHT_CURRENCY_SYMBOL	CHAR	4	QRY_CF_RIGHT_CURRENCY_SYMBOL
QRY_CF_PRINT_ZERO_VALUE	CHAR	3	QRY_CF_PRINT_ZERO_VALUE
QRY_CF_REPLACE_LEADING_ZERO	CHAR	3	QRY_CF_REPLACE_LEADING_ZERO
QRY_CF_REPLACE_LEADING_ZERO_WITH	CHAR	3	QRY_CF_REPLACE_LEADING_ZERO_WITH
QRY_CF_SINGLE_LEADING_ZERO	CHAR	3	QRY_CF_SINGLE_LEADING_ZERO
QRY_CF_DATE_TIME_SEPARATOR	CHAR	1	QRY_CF_DATE_TIME_SEPARATOR
QRY_CF_EDIT_CODE	CHAR	1	QRY_CF_EDIT_CODE
QRY_CF_OPTIONAL_EDIT_CODE_MODIFIER	CHAR	1	QRY_CF_OPTIONAL_EDIT_CODE_MODIFIER
QRY_CF_EDIT_WORD	VARCHAR	50	QRY_CF_EDIT_WORD
QRY_CF_EDIT_WORD_SUMMARY	VARCHAR	100	QRY_CF_EDIT_WORD_SUMMARY

QD_SPECIAL_CONDITIONS (QD_SPCCND)

This table contains any special conditions that exist with the query at the time the tool was run. Examples of this include the following:

- This output database file definition is not defined due to the query definition being incomplete
- All records selected by default
- A file with this format cannot be taken to a release prior to V2R1M1
- All records selected by default

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	Query ID (use to join to QD_SUMMARY)
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_SPECIAL_COND	VARCHAR	256	QRY_SPECIAL_COND

QD_REPORT_BREAKS (QD_RPTBRK)

This table contains one row per report break that is part of the query definition. It provides information such as the break level and text.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	Query ID (use to join to QD_SUMMARY)
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_BREAK_LEVEL	SMALLINT	2	QRY_BREAK_LEVEL
QRY_BREAK_NEW_PAGE	CHAR	3	QRY_BREAK_NEW_PAGE
QRY_BREAK_SUPPRESS_SUMMARIES	CHAR	3	QRY_BREAK_SUPPRESS_SUMMARIES
QRY_BREAK_TEXT	VARCHAR	128	QRY_BREAK_TEXT

QD_DATABASE_OUTPUT (QD_DBOUT)

If the output type for the query is option 3 (database file), this table contains information such as the name and library of the output file that is to hold the results when the query is executed.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	Query ID (use to join to QD_SUMMARY)
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_DATABASE_OUTPUT_FILE	CHAR	10	QRY_DATABASE_OUTPUT_FILE
QRY_DATABASE_OUTPUT_LIBRARY	CHAR	10	QRY_DATABASE_OUTPUT_LIBRARY
QRY_DATABASE_OUTPUT_MEMBER	CHAR	10	QRY_DATABASE_OUTPUT_MEMBER
QRY_DATABASE_DATA_IN_FILE	VARCHAR	16	QRY_DATABASE_DATA_IN_FILE
QRY_DATABASE_NEW_FILE_AUTH	CHAR	10	QRY_DATABASE_NEW_FILE_AUTH
QRY_DATABASE_NEW_FILE_TEXT	CHAR	50	QRY_DATABASE_NEW_FILE_TEXT
QRY_DATABASE_OUTPUT_RCD_LEN	INTEGER	4	QRY_DATABASE_OUTPUT_RCD_LEN
QRY_DATABASE_OUTPUT_CCSID	INTEGER	4	QRY_DATABASE_OUTPUT_CCSID

QD_PRINTER_OUTPUT (QD_PRTOUT)

If the output type for the query is option 2 (printer file), this table contains information such as the printer device, length and width of the report, and the form type.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	QRY_ID
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_PRINTER_DEVICE	CHAR	10	QRY_PRINTER_DEVICE
QRY_PRINTER_REPORT_LENGTH	CHAR	20	QRY_PRINTER_REPORT_LENGTH
QRY_PRINTER_REPORT_WIDTH	CHAR	20	QRY_PRINTER_REPORT_WIDTH
QRY_PRINTER_REPORT_START_LINE	CHAR	20	QRY_PRINTER_REPORT_START_LINE
QRY_PRINTER_REPORT_END_LINE	CHAR	20	QRY_PRINTER_REPORT_END_LINE
QRY_PRINTER_REPORT_SPACING	CHAR	20	QRY_PRINTER_REPORT_SPACING
QRY_PRINTER_PRINT_DEFINITION	CHAR	3	QRY_PRINTER_PRINT_DEFINITION
QRY_PRINTER_SPOOL_OUTPUT	CHAR	50	QRY_PRINTER_SPOOL_OUTPUT
QRY_PRINTER_FORM_TYPE	CHAR	50	QRY_PRINTER_FORM_TYPE
QRY_PRINTER_COPIES	SMALLINT	2	QRY_PRINTER_COPIES
QRY_PRINTER_HOLD_REPORT	CHAR	50	QRY_PRINTER_HOLD_REPORT
QRY_PRINTER_PRINT_COVER_PAGE	CHAR	20	QRY_PRINTER_PRINT_COVER_PAGE
QRY_PRINTER_PRINT_STANDARD_PAGE_HEADING	CHAR	20	QRY_PRINTER_PRINT_STANDARD_PAGE_HEADI

QD_PRINTER_COVER_PAGE_HEADING_FOOTING (QD_PRTCVR)

If the output type for the query is option 2 (printer file), this table contains information such as the cover page title, and report page headings and footings.

COLUMN_NAME	DATA_TYPE	LENGTH	COLUMN_HEADING
QRY_ID	INTEGER	4	QRY_ID
QRY_SEQUENCE_NUMBER	INTEGER	4	Query Sequence Number (to preserve ordering)
QRY_PRTCVR_RECORD_TYPE	CHAR	8	QRY_PRTCVR_RECORD_TYPE
QRY_PRTCVR_SEQ_NUM	SMALLINT	2	QRY_PRTCVR_SEQ_NUM
QRY_PRTCVR_DATA	CHAR	80	QRY_PRTCVR_DATA

Support

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