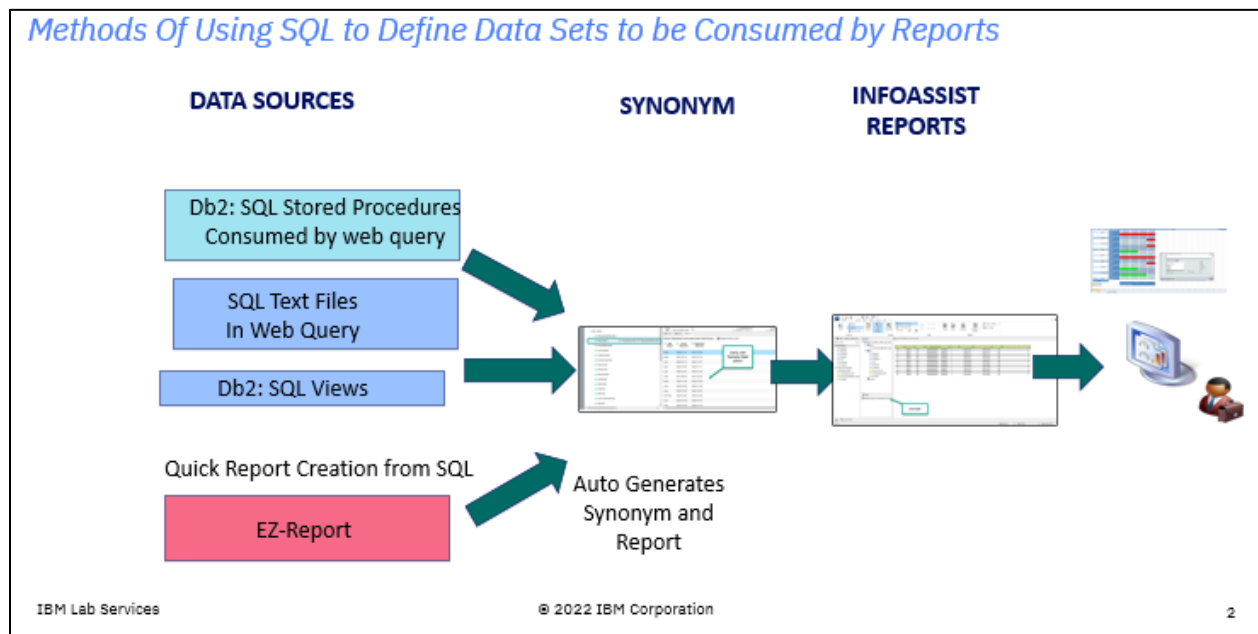


Creating Synonyms and Reports in Db2 Web Query using SQL Statements

Db2 Web Query provides graphical user interfaces (InfoAssist and the new Designer) for building reports as well as a graphical synonym editor for defining data sources consumed by reports. These tools generate the necessary SQL to access data needed for the report. However, for those adept at SQL coding, there may be valid reasons to leverage an SQL statement or program to be consumed by your reports where Web Query is simply passing through your SQL to Db2 directly. This document covers several ways you can accomplish this and lays out some reasons why you may choose one method over another.

These methods are all available through the browser interface of Web Query. There is one method that has been available in the Windows Client referred to as Developer Workbench: SQL Reports. The SQL Reports function in Developer Workbench is a non-strategic option that should be avoided, in large part due to the fact that it doesn't create a meta data synonym object in its process (which is NOT a best practice in Web Query), but also because it would require a license of Developer Workbench.

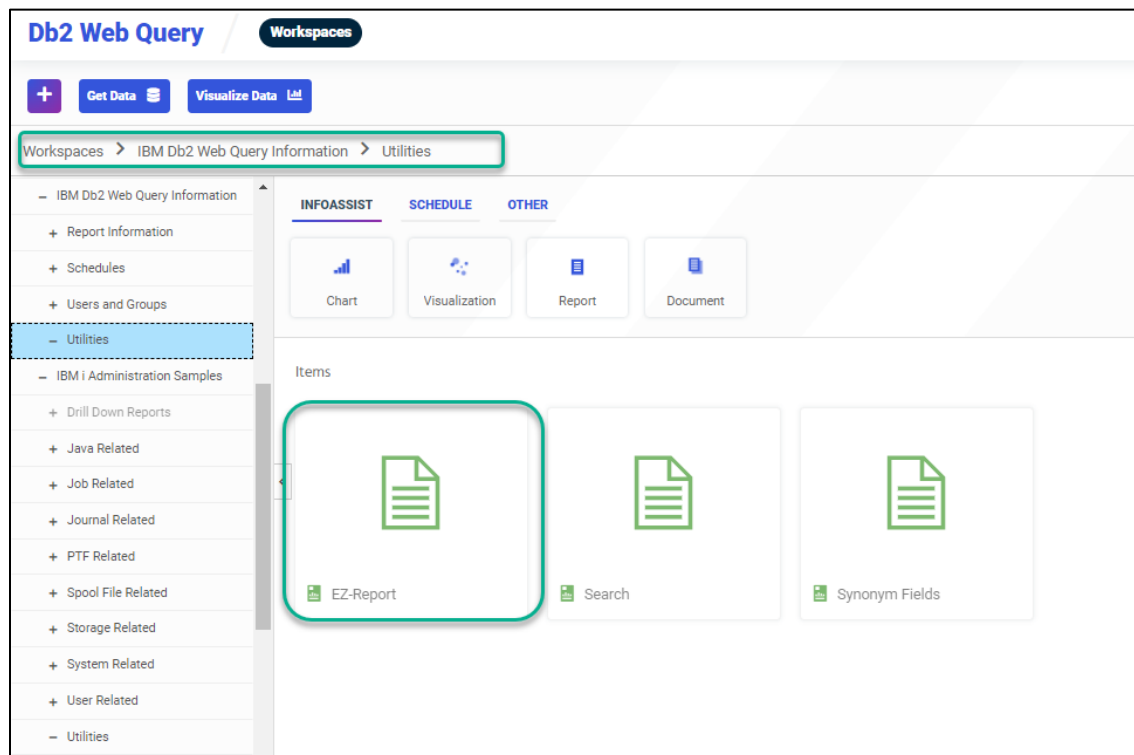
The following depicts the various methods covered in this document:



EZ-Report

EZ-Report is a utility within the IBM Db2 Web Query Information workspace that provides a quick way to auto-generate a Synonym and Report from an SQL Statement. Review a video demonstration of it at <http://ibm.biz/db2wq-230-videos>. With EZ-Report you automate the creation of a Web Query text file containing the SQL statement, the creating of a synonym over that text file, and a report. EZ-Report

basically automates the process described in the next method “SQL Text File Approach” described below.



Advantages:

- Fast generation of Web Query synonym (meta data object) and a report over a single SQL Statement or file/table
- Convert SQL from other tools into Db2 Web Query
- You can build multiple reports over the auto-generated synonym
- You could edit the SQL Statement. In some cases, for instance, changing a selection criteria value, your report will run and pick up the change. In other cases, for instance, adding a new field to the query will require you to refresh the synonym, and if you want to add the new field to your report you would need to do that too.

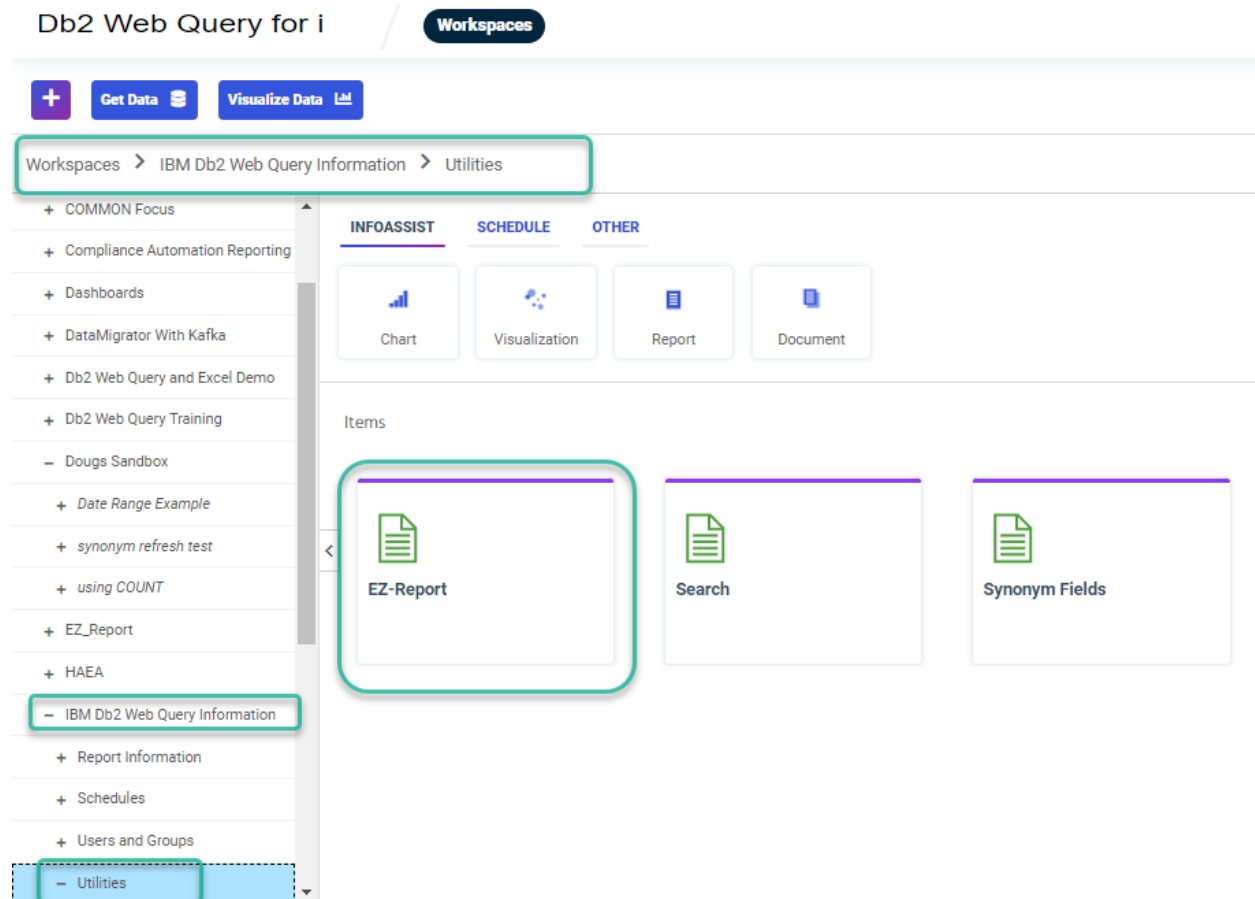
Disadvantages:

- You will most likely want to edit the report if you want to alter the default aspects EZ-report applies (for instance, change header/footer, color scheme, etc., if desired)
- Requires you to be a Db2 Web Query Administrator although there are plans in place to allow a “developer” authorization to use this
- Some SQL statement restrictions exist. See the EZ-Report wiki document [here](#).
- Requires a validation list object to be in place
- EZ-Report doesn't format your SQL within the Db2 Web Query SQL text editor so you may have a little work to do to make it more readable

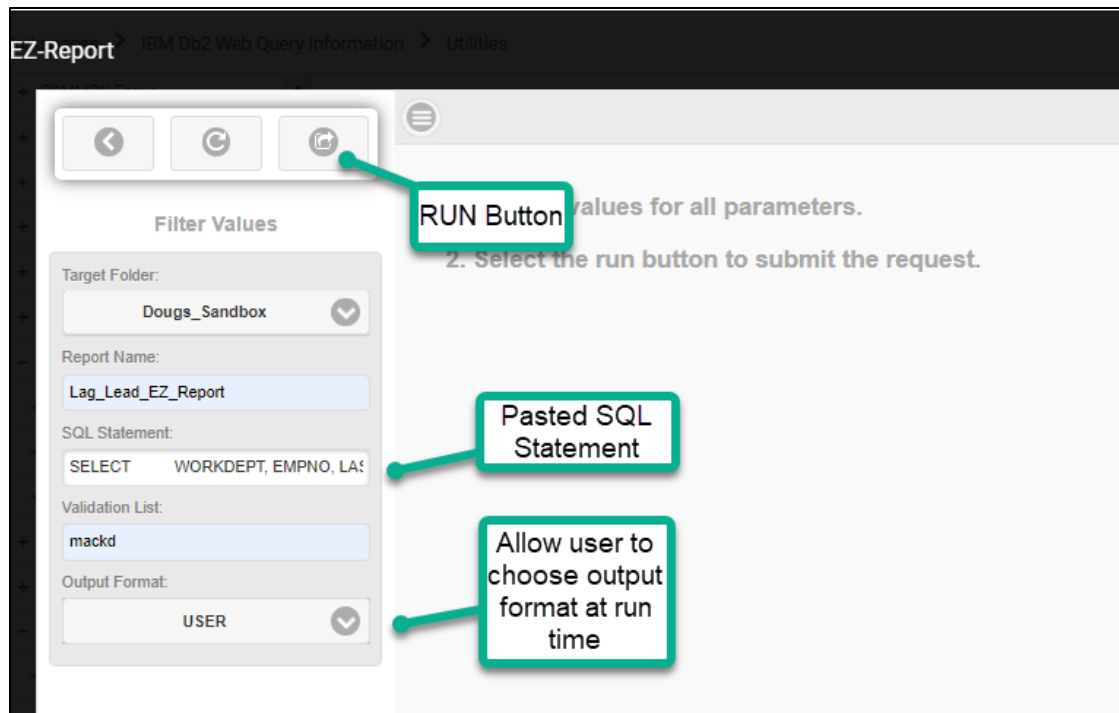
Guidance:

- Develop and test your SQL using the Run SQL Scripts function in Access Client Solution (ACS), downloadable from [here](#).

Once you have your SQL statement (perhaps after testing in ACS), Navigate to the IBM Db2 Web Query Information workspace, and Utilities Sub-folder.



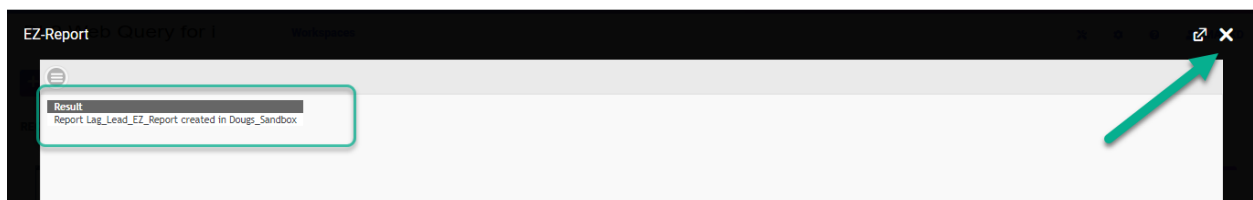
Run EZ-Report by right clicking or double clicking on it. Fill in the prompts.



The Validation List requirement is documented in the [EZ-Report guide](#). For the output format prompt, you can either select a specific output format (like .xlsx) or allow the user to select at run time.

HINT: WHEN USING SQL IN DB2 WEB QUERY IT IS A GOOD IDEA TO ENSURE YOU ARE USING SQL NAMING CONVENTIONS. FOR INSTANCE, USE THE "." (PERIOD) SEPARATOR BETWEEN LIBRARY AND FILE NAME RATHER THAN THE "/" NOTATIONS.

Hit the run button, and EZ-Report will auto generate the synonym and report for you!



Hopefully you get the Report Created message. Close the EZ-Report window by clicking on the close icon on the upper right hand corner OF THE REPORT (and not the browser window).

Navigate to the workspace you specified to be the location of your new report. You may have to do a refresh to see the new report. Double click or right click and specify run.

Db2 Web Query for i

Workspaces

+ Get Data Visualize Data

Workspaces > Dougs Sandbox

- + DataMigrator With Kafka
- + Db2 Web Query and Excel Demo
- + Db2 Web Query Training
- + Dougs Sandbox
- + EZ_Report
- + HAEA
- + IBM Db2 Web Query Information
- + IBM i Administration Samples
- + IBM QRY/400 Discovery Samples
- + Johns Sandbox
- + krs
- + Makita

INFOASSIST SCHEDULE OTHER

Chart Visualization Report Document

ez_test_vldl kmtest_qry400 Lag_Lead_EZ_Report Report1

Db2 Web Query for i

Workspaces

+ Get Data Visualize Data

Lag_Lead_EZ_Report

42 of 42 records, Page 1 of 1

Lag_Lead_EZ_Report

WORKDEPT	EMPNO	SALARY	LEAD_SALARY_1	LEAD_SALARY_2	LAG_SALARY_1	LAG_SALARY_2
A00	000120	29250.00	29250.00	46500.00	.	.
	200120	29250.00	46500.00	46500.00	29250.00	.
	000110	46500.00	46500.00	52750.00	29250.00	29250.00
	200010	46500.00	52750.00	.	46500.00	29250.00
	000010	52750.00	.	.	46500.00	46500.00
B01	000020	41250.00
C01	000130	23800.00	28420.00	28420.00	.	.
	000140	28420.00	28420.00	38250.00	23800.00	.
	200140	28420.00	38250.00	.	28420.00	23800.00
	000030	38250.00	.	.	28420.00	28420.00
D11	000210	18270.00	20450.00	21340.00	.	.
	000190	20450.00	21340.00	22250.00	18270.00	.
	000180	21340.00	22250.00	24680.00	20450.00	18270.00
	000160	22250.00	24680.00	24680.00	21340.00	20450.00
	000170	24680.00	24680.00	25280.00	22250.00	21340.00
	200170	24680.00	25280.00	27740.00	24680.00	22250.00
	000150	25280.00	27740.00	29840.00	24680.00	24680.00
	000200	27740.00	29840.00	29840.00	25280.00	24680.00
	000220	29840.00	29840.00	32250.00	27740.00	25280.00
	200220	29840.00	32250.00	.	29840.00	27740.00
D21	000060	32250.00	.	.	29840.00	29840.00
	000260	17250.00	19180.00	22180.00	.	.

You can choose at this point to edit the report. For instance, maybe you want to add an average salary by department field or make department a prompted parameter. You could choose the change header/footer or color scheme. There are many more things you could do to enhance the report. For more info on the InfoAssist reporting authoring tool, refer to the InfoAssist+ tutorial that comes with EZ-Install.

For more information about using EZ-Report, click on [this link](#).

SQL Text File Approach

The SQL Text File approach is more manual in nature than ez-report, although the manual steps to create a synonym and report are fairly simple and quickly accomplished. The objects created in this approach are the same as what EZ-Report creates for you, but you have more flexibility in how you create the synonym and report.

Advantages:

- Easy generation of Web Query Synonym (meta data) over a single SQL Statement or file/table
- Convert SQL from other tools into Db2 Web Query
- You can build multiple reports over the synonym
- Because you are building your report from scratch (unlike with EZ-Report) you have more control over aspects of the report (headers/footers, color scheme, output formats, etc.)
- You can also alter the SQL Statement within Db2 Web Query. In some cases, like just changing a selection criteria value, your report will run and pick up the change. In other cases, for instance, adding a new field to the query will require you to refresh the synonym, and if you want to add the new field to your report you would need to do that too.


Disadvantages:

- Compared to a Db2 View or Store Procedure approach, EZ-Report and Text File approach are not able to share that SQL statement with other applications

Guidance:

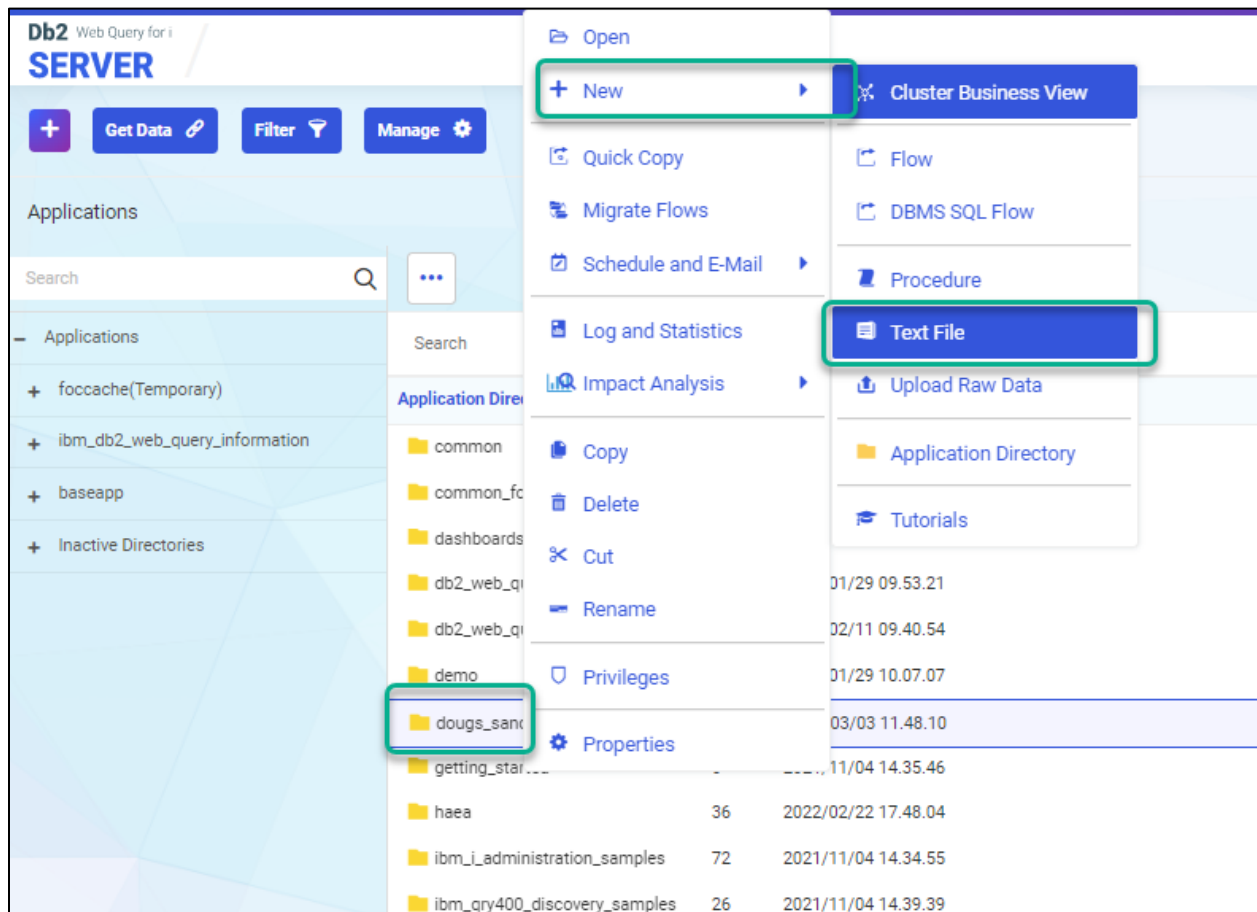
- Requires you to be a Db2 Web Query Developer and DBA, or a Db2 Web Query Administrator.
- Develop and test your SQL using the Run SQL Scripts function in Access Client Solution (ACS), downloadable from [here](#).

Using ACS to develop and test your SQL, you can then navigate to an application folder by selecting

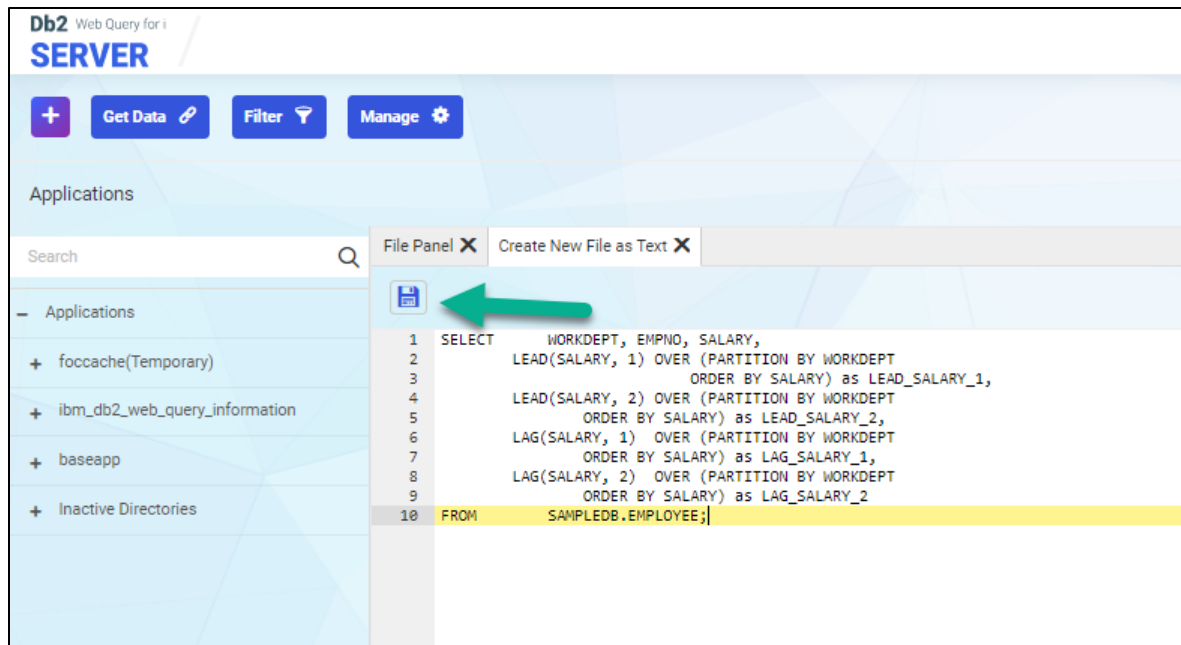
“Prepare and manage data” option after clicking on the big purple  sign on the home page.

HINT: IF YOU DON'T SEE THE APPLICATION FOLDER YOU WANT TO USE, CLICK ON THE MANAGE BUTTON, SELECT PREFERENCES, AND MAKE SURE “SHOW ALSO APPLICATIONS NOT IN APPPATH” IS CHECKED.

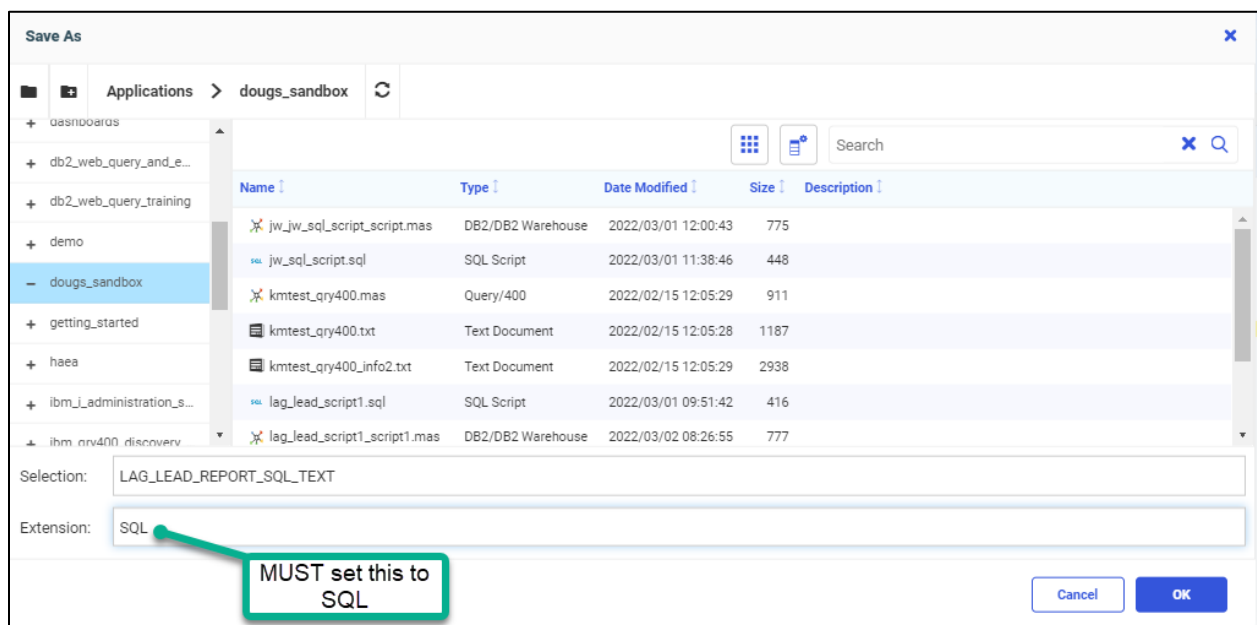
You may need to expand the “Inactive Directories” section to find your application folder of interest. Right click on your folder and select NEW-> TEXT FILE.



This opens the SQL text file editor, and you can simply copy and paste your SQL statement.



Save your SQL statement in Db2 Web Query and click on the SAVE AS button. Make sure you specify SQL (no period needed) in the Extension section.



Click OK.

Get Data

Create a synonym (click on GET DATA). Select “External SQL Script” in the object type drop down. Also make sure in the BASE LOCATION input box that you specify the same application folder where you stored your SQL text script.

Create Synonym for DB2/DB2 Warehouse (*LOCAL)

Object Type: External SQL Scripts

Location of External SQL Scripts: Select Base Location

Base Location: DB2ICOE5.RCHLAND.IBM.COM > Applications > doughs_sandbox

Document Name: lag_lead_report_sql_text.sql

Document Extension: .sql

Library: doughs_sandbox

Object Name: lag_lead_report_sql_text

Selection: doughs_sandbox

Cancel OK

Click on OK and create your synonym over the SQL statement. On the Create Synonym panel, you generally want to de-select the “For Subquery” check box unless you have a more complex query (for example, use of Common Table Expressions).

It is a good practice to add a suffix indicating the data source type, in this case an SQL Script.

Create Synonym for DB2/DB2 Warehouse (*LOCAL)

Available Objects for DB2/DB2 Warehouse (*LOCAL)

Selected Parameters

☐ For Subquery

Application: doughs_sandbox

Prefix:

Suffix: _sql_Scr...

De-select

<input type="checkbox"/>	Default Synonym Name	File Name	Location of SQL String Data Files
<input type="checkbox"/>	jw_sql_script	jw_sql_script.sql	doughs_sandbox/jw_sql_script.sql
<input checked="" type="checkbox"/>	lag_lead_report_sql_text	lag_lead_report_sql_text.sql	doughs_sandbox/lag_lead_report_sql_text.sql
<input type="checkbox"/>	lag_lead_script1	lag_lead_script1.sql	doughs_sandbox/lag_lead_script1.sql

Once your synonym is created you can:

- Edit the synonym – perhaps format fields or insert a join
- Create a report over the synonym with InfoAssist or Designer.
 - This document does not cover report creation/editing but you can refer to the EZ-Install TEST DRIVE and INFOASSIST+ Tutorials (if you do not have these reach out to us at QU2@us.ibm.com).

HINT: WHILE YOUR SQL STATEMENT CAN CONTAIN AGGREGATIONS, SORTING, SELECTION CRITERIA, AND MAYBE EVEN DATE CONVERSION/PROCESSING, YOU SHOULD CONSIDER THAT YOU CAN DO ALL OF THOSE THINGS IN THE REPORT YOU CREATE. CONSIDER REMOVING THOSE FROM YOUR SQL AND BUILDING THEM BACK IN WITH INFOASSIST OR DESIGNER BECAUSE YOU WON'T BE LOCKING YOUR REPORTS INTO THE LOGIC IN YOUR SQL STATEMENT (THEREBY ENABLING MANY MORE REPORTS WITH PROMPTS TO BE BUILT OVER THAT SQL STATEMENT BASED SYNONYM)!

SQL View Approach

The SQL View approach is very similar to the SQL text file approach. The real difference is you are creating an Db2 VIEW object that contains your SQL statement and then building a synonym over your view in Web Query.

Advantages:

- Easy generation of a Web Query Synonym (meta data) over an SQL View object
- Convert SQL from other tools into Db2 Web Query
- You can build multiple reports over the synonym
- You could edit the View. In some cases, like just changing a selection criteria value, your report will run and pick up the change. In other cases, for instance, adding a new field to the view will require you to refresh the synonym, and if you want to add the new field to your report you would need to do that too.
- Your SQL View is available to any other application, not just Db2 Web Query

Disadvantages:

- You may need to determine best approach as it relates to change management tools or ability to authorities to create/edit Db2 objects with I/T

Guidance:

- Requires you to be a Db2 Web Query Developer and DBA, or a Db2 Web Query Administrator.
- Develop and test your SQL using the Run SQL Scripts function in Access Client Solution (ACS), downloadable from [here](#).

The advantage to the VIEW approach versus the SQL Statement or EZ-Report approaches is that the view can be used by ANY application, not just Db2 Web Query. Another consideration may be where you

want to store and share the SQL statement. For instance, you may want to leverage an IBM i source code management utility (or maybe such a utility is an inhibitor, which would suggest the SQL Statement and/or ez-report might be a better fit).

To create a VIEW containing your SQL statement, you can use Access Client Solutions (ACS). ACS “Run SQL Scripts” provides statement formatting, syntax checking, SQL examples and a testing environment. Other tools can be used as well, of course. Once you’ve tested your SQL statement, create a view with a CREATE OR REPLACE wrapper around the SQL statement. Below is an example.

```
1
2 CREATE OR REPLACE VIEW MACKD.LAGLEAD (
3     WORKDEPT ,
4     EMPNO,
5     LASTNAME,
6     SALARY ,
7     LEAD_SALARY_1,
8     LEAD_SALARY_2,
9     LAG_SALARY_1,
10    LAG_SALARY_2 )
11 AS
12     SELECT      WORKDEPT, EMPNO, LASTNAME, SALARY,
13                LEAD(SALARY, 1) OVER (PARTITION BY WORKDEPT
14                                     ORDER BY SALARY) as LEAD_SALARY_1,
15                LEAD(SALARY, 2) OVER (PARTITION BY WORKDEPT
16                                     ORDER BY SALARY) as LEAD_SALARY_2,
17                LAG(SALARY, 1) OVER (PARTITION BY WORKDEPT
18                                    ORDER BY SALARY) as LAG_SALARY_1,
19                LAG(SALARY, 2) OVER (PARTITION BY WORKDEPT
20                                    ORDER BY SALARY) as LAG_SALARY_2
21 FROM          sampledb.EMPLOYEE ;|
22
23
24
25
```

Once your view is created, create a synonym but choose TABLES, VIEWS, AND OTHER OBJECTS in the object type input box.

Click on the GET DATA button. Select Db2/DB2 Warehouse CLI adapter and *LOCAL (assuming you want to create and synonym over the Db2 data in the same server/LPAR as where you are running Db2 Web Query).

Along with selecting Tables, Views, and Other Objects you'll want to specify the library containing your view, and ensure you are specifying the application folder you want to store your new synonym in. It is also a good idea to identify the synonym by adding a suffix that indicates the data source type – in this case it appends a “_VIEW” onto the name of the synonym.

Create Synonym for DB2/DB2 Warehouse (*LOCAL)

Object Type ? Tables, Views and Other Objects

Library ? MACKD

Supply value to avoid system-wide search, sample: S999

Object Name ?

▼

Miscellaneous Parameters

Customize data type mappings

Application ? dougs_sandbox

Prefix ?

Suffix ? _VIEW

SYNONYM CANDIDATES

Row Limit 50

🔍 Search

<input type="checkbox"/>	Table Name ?	Library/Schema ?	Type ?
<input type="checkbox"/>	DATE_DIM	MACKD	VIEW
<input type="checkbox"/>	DATE_DIM_T	MACKD	TABLE
<input type="checkbox"/>	INVENTORY	MACKD	TABLE
<input checked="" type="checkbox"/>	LAGLEAD	MACKD	VIEW
<input type="checkbox"/>	LAGLEAD_DATE_RANGE	MACKD	VIEW
<input type="checkbox"/>	QQLSRC	MACKD	TABLE

Select your VIEW, in this case LAGLEAD in library MACKD, and click ok. Now you can create a report over that view in either InfoAssist or Designer!

The screenshot displays the IBM Cognos Report Studio interface. The top toolbar includes tabs for Home, Insert, Format, Data, Slicers, Layout, View, and Field. Below the toolbar, there are sections for 'Data - laglead_view' and 'Query'. The 'Data' section shows a tree view of dimensions (WORKDEPT, EMPNO, LASTNAME) and measures (SALARY, LEAD_SALARY_1, LEAD_SALARY_2, LAG_SALARY_1, LAG_SALARY_2). The 'Query' section shows the report structure with dimensions and measures. The main area shows a 'Live Preview (500 Records)' of the 'Salary Comparison Report'. The report table has the following columns: WORKDEPT, EMPNO, LASTNAME, SALARY, LEAD_SALARY_1, LEAD_SALARY_2, LAG_SALARY_1, and LAG_SALARY_2. The data is grouped by WORKDEPT (A00, B01, C01, D11, D21).

WORKDEPT	EMPNO	LASTNAME	SALARY	LEAD_SALARY_1	LEAD_SALARY_2	LAG_SALARY_1	LAG_SALARY_2
A00	000010	HAAS	52750.00	.	.	46500.00	46500.00
	000110	LUCCHESI	46500.00	46500.00	52750.00	29250.00	29250.00
	000120	O'CONNELL	29250.00	29250.00	46500.00	.	.
	200010	HEIMWINGER	46500.00	52750.00	.	46500.00	29250.00
	200120	ORLANDO	29250.00	46500.00	46500.00	29250.00	.
B01	000020	THOMPSON	41250.00
C01	000030	KWAN	38250.00	.	.	28420.00	28420.00
	000130	QUINTANA	23800.00	28420.00	28420.00	.	.
	000140	NICHOLLS	28420.00	28420.00	38250.00	23800.00	.
	200140	NATZ	28420.00	38250.00	.	28420.00	23800.00
D11	000060	STERN	32250.00	.	.	29840.00	29840.00
	000150	ADAMSON	25280.00	27740.00	29840.00	24680.00	24680.00
	000160	PIANKA	22250.00	24680.00	24680.00	21340.00	20450.00
	000170	YOSHIMURA	24680.00	24680.00	25280.00	22250.00	21340.00
	000180	SCOUTTEN	21340.00	22250.00	24680.00	20450.00	18270.00
	000190	WALKER	20450.00	21340.00	22250.00	18270.00	.
	000200	BROWN	27740.00	29840.00	29840.00	25280.00	24680.00
	000210	JONES	18270.00	20450.00	21340.00	.	.
	000220	LUTZ	29840.00	29840.00	32250.00	27740.00	25280.00
	200170	YAMAMOTO	24680.00	25280.00	27740.00	24680.00	22250.00
	200220	JOHN	29840.00	32250.00	.	29840.00	27740.00
D21	000070	PULASKI	36170.00	.	.	28760.00	28760.00
	000230	JEFFERSON	22180.00	27380.00	28760.00	19180.00	17250.00

SQL Stored Procedure Approach

There are times, where applying program logic to massage/prepare data for consumption by Db2 Web Query is needed or desired. While this section is titled SQL Stored Procedure (a program containing SQL procedural language), in fact you could also use this same approach with an externalized RPG program whether it contained SQL or not! Once your stored procedure is in place the process to create a synonym over it is the same.

Advantages:

- More complex programming logic can be called from a Db2 Web Query report seamlessly
- Convert SQL from other tools into Db2 Web Query
- You may be able to use programs already in place that provide data prepping logic
- You can build multiple reports over the synonym
- You are building your report from scratch (unlike with EZ-Report) so you have more control over aspects of the report (headers/footers, color scheme, output formats, etc.)
- Other applications besides Db2 Web Query can leverage the stored procedures
- Puts Db2 to work – will run more efficiently than other alternatives in Web Query (such as hold files, a.k.a. Web Query temp files within a report)

Disadvantages:

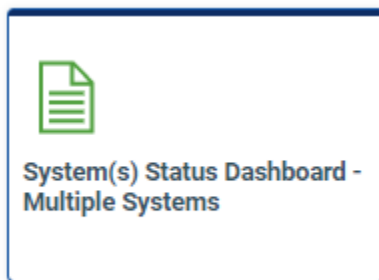
- Requires a base knowledge of SQL Procedural Language

Guidance:

- Requires you to be a Db2 Web Query Developer and DBA
- Develop and test your SQL using the Run SQL Scripts function in Access Client Solution (ACS), downloadable from [here](#).

The Stored Procedure approach can be VERY powerful to address more complex data gathering/preparation scenarios. A good example might be a multiple server/LPAR report. For instance, perhaps you would like a report that grabs data from multiple IBM i servers/LPARs and consolidates (and perhaps enhances the data with a system ID and timestamp). Multi-system joins can be done in Web Query, but a stored procedure doing that heavy lifting would be much more efficient.

Db2 Web Query comes with a number of sample reports, some of which are in the IBM Administration Samples workspace. One in particular, under System_Related -> Resources subfolder is the System Status Multiple Systems report.



It looks like this when run:

System(s) Status Dashboard - Multiple Systems <small>Web > Resources</small>																
System Status Selected System(s):																
System Name	Information	Total Jobs in System	Active Jobs in System	Interactive Jobs in System	Active Threads in System	Elapsed Time	Elapsed CPU Used	Current CPU Capacity	Average CPU Utilization	Minimum CPU Utilization	Maximum CPU Utilization	System ASP Storage	Total Auxiliary Storage	System ASP Used	Current Temporary Storage	Maximum Temporary Storage Used
DB2ICOE2	2022/04/09 11:08:47 039661	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DB2ICOE3	2022/04/09 11:08:47 039661	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DB2ICOE4	2022/04/09 11:08:47 039661	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DB2ICOE5	2022/04/09 11:08:42 576852	11,841	280	.00	1,652	1	28.40	2.00	28.21%	.00%	101.03%	572,662	572,662	82.85%	28,940	44,104
Report run on April 09, 2022 at 11.08.41																

Behind this report is a stored procedure that gathers all that data from those systems into a single view with system name and systems status information.

At this point you would follow similar steps to create a synonym and report with one key exception (pointed out below).

To create your synonym, click on the GET DATA, choose Db2/Db2 Warehouse CLI, then *LOCAL (the result set from the SP is local to where Db2 Web Query is running – and the SP is actually controlling the gather of data from remote servers/LPARs, so *LOCAL is still the connection choice we want to use).

On the create synonym screen make sure you select your library where you created the Stored Procedure and STORED PROCEDURES on the Object Type input box.

Create Synonym for DB2/DB2 Warehouse (*LOCAL)

Object Type ? Tables, Views and Other Objects

Object Name ? Tables

Miscellaneous Parameters

Customize data type mappings

Application ?

Library ? MACKD

Prefix ?

Suffix ? _VIEW

Choose your Stored Procedure and click on NEXT.

Specify the application folder where you want to store the new Synonym, and in this case, make the Suffix “_SP”.

Create Synonym for DB2/DB2 Warehouse (*LOCAL)

Create Synonym for DB2/DB2 Warehouse (*LOCAL)

Selected Parameters

Customize data type mappings

Synonym Name ? get_system_status_info_from_multiple...

One-Part Name ? ☐

Application ? dougs_sandbox

Prefix ?

Suffix ? _SP

Click on Next. If the stored procedure is EXPECTING an input field (this system status SP is not), you will need to enter a valid value for that input field when you create the synonym. Here’s an example of where you would add that:

Create Synonym for DB2/DB2 Warehouse (*LOCAL)

Selected Parameters

Customize data type mappings

Synonym Name

☐ One-Part Name

Application Prefix Suffix

<input type="checkbox"/>	Name	Value	Data Type	Col Type	Description
<input checked="" type="checkbox"/>	INPUTPARM	Germany	CHAR	IN	

Back to the System Status Synonym – build your report using the fields supplied by the SP!

The screenshot shows the Db2 Web Query for i InfoAs interface. The top menu bar includes Home, Insert, Format, Data, Slicers, Layout, View, and Field. The main workspace is divided into three panes: Search fields, Query, and Live Preview (500 Records).

Search fields: Dimensions (HOST_NAME), Measures/Properties (TOTAL_JOBS_IN_SYSTEM, ACTIVE_JOBS_IN_SYSTEM, INTERACTIVE_JOBS_IN_S, ACTIVE_THREADS_IN_SY, ELAPSED_TIME, ELAPSED_CPU_USED, CURRENT_CPU_CAPACITY, AVERAGE_CPU_UTILIZATI, MINIMUM_CPU_UTILIZATI, MAXIMUM_CPU_UTILIZAT, SYSTEM_ASP_STORAGE, TOTAL_AUXILIARY_STOR, SYSTEM_ASP_USED, CURRENT_TEMPORARY_S, MAXIMUM_TEMPORARY_S).

Query: Report (get_system_status_in). Fields listed include: TOTAL_JOBS_IN_SYS, ACTIVE_JOBS_IN_SYS, INTERACTIVE_JOBS_, ACTIVE_THREADS_IN, ELAPSED_TIME, ELAPSED_CPU_USED, CURRENT_CPU_CAPA, AVERAGE_CPU_UTIL, MINIMUM_CPU_UTIL, SYSTEM_ASP_STORA, TOTAL_AUXILIARY_S, SYSTEM_ASP_USED, CURRENT_TEMPORAF, MAXIMUM_TEMPORAI.

Live Preview (500 Records):

HOST_NAME	TOTAL_JOBS_IN_SYSTEM	ACTIVE_JOBS_IN_SYSTEM	INTERACTIVE_JOBS_IN_SYSTEM	ACTIVE_THREADS_IN_SYSTEM	ELAPSED_TIME	ELAPSED_CP
DB2/COE3	16231	278	.00	1028	1	
DB2/COE4	18450	250	.00	1112	1	
DB2/COE5	11846	285	.00	1666	1	

A green box highlights the 'all fields returned from SP' text, and a green arrow points from the 'all fields returned from SP' text to the 'all fields returned from SP' text.

Segment: ANSWERSET1
Name: TOTAL_AUXILIARY_STORAGE
Alias: TOTAL_AUXILIARY_STORAGE
Title: TOTAL_AUXILIARY_STORAGE
Description: TOTAL_AUXILIARY_STORAGE
Format: P20

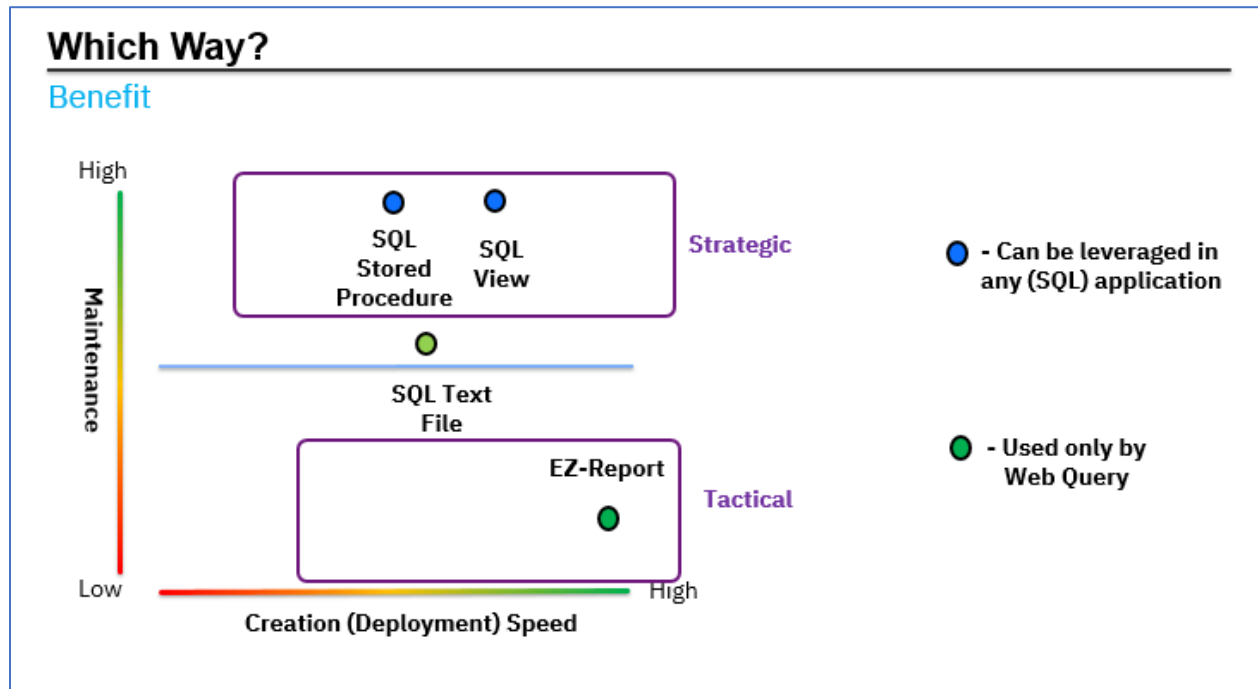
In conclusion, there are many ways to leverage SQL in Db2 Web Query, from EZ-Report which auto generates a synonym or report, to creating SQL objects in Web Query (text file approach) or Db2 (View or Stored Procedure approach).

Conclusions

Choices are good, but what's the right approach for you? The Web Query team would position EZ-Report as a tactical, fast way to get a report done, similar to the Query/400 import function. If all you had was EZ-Report you would end up with a LOT of synonyms and reports whereas with the other methods you can build up your synonyms to represent a data set that can contain many fields (not limited to the ones used in a single SQL statement) and build multiple reports over that synonym using

prompts. This would significantly cut down on the number of Web Query objects! If you need to share the SQL with other applications then Db2 Views and/or Stored Procedures are the right choice.

Perhaps this high-level chart below helps position the different approaches. The Web Query Lab Services team is also available to help you through this and can be reached at the QU2@us.ibm.com email ID!



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