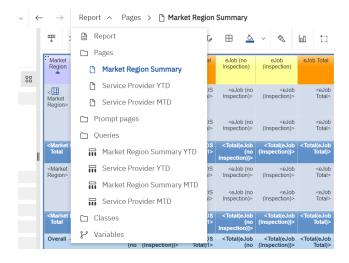
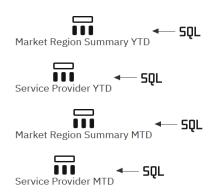
# **How To Make A DESQL Report**

## How To Check Whether You Need To Create A DESQL Report Or Not?

Open IBM Cognos, and check whether any of your report's queries include a SQL element. If they do, you'll need to create a DESQL report. To check this, open the "Report" dropdown and click on "Queries."



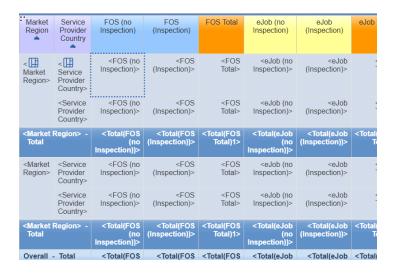
Report Dropdown



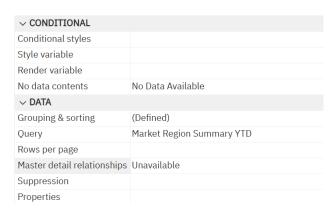
**Tables And Attached SQL Elements** 

## Steps To Make a DESQL Report

 Open your report and identify which SQL element is linked to it. Be extra cautious if the report contains multiple SQL elements or tables. To find this, click the three dots at the top left of the table and check the "Query" option under the "Data" tab in the table properties.

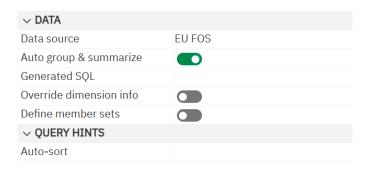


Report Image

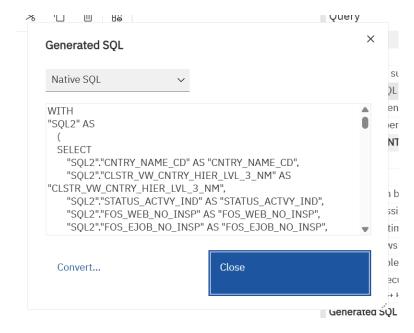


The Report Is Attached To "Market Region Summary YTD" SQL Element

• From the "Report" dropdown, select "Queries." Then click on the table element to open its query properties. Double-click "Generate SQL" and hit "OK" in the dialog box that appears.



**Query Properties** 



Report SQL

- Copy the entire SQL guery that gets generated and paste it into Notepad.
- Check whether the SQL includes a static date filter. If it does, modify the SQL by replacing it with a dynamic date function based on the report's requirement.

```
--ORDER BY TOTAL DESC

WHERE JOB.JOB_RECORDING_DT >= DATE_TRUNC('YEAR', CURRENT_DATE())

AND JOB.JOB_RECORDING_DT < DATE_TRUNC('MONTH', CURRENT_DATE())

WHERE JOB.JOB_RECORDING_DT BETWEEN CAST('2024-01-01' AS DATE) AND CAST('2024-12-31' AS DATE)

AND JOB.RESP_SERV_PROVIDER_ID IS NOT NULL

AND JOB.JOB_TYPE_CD IN ('ZR','ZB','ZI')

AND SP.CNTRY_NAME_CD <> 'CN'

AND SP.CNTRY_NAME_CD <> 'CN'

AND SP.ORIG_SYS_ID = 6

AND D.STATUS_ACTVY_IND IS NULL

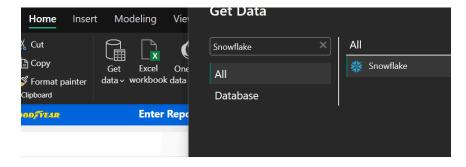
GROUP BY SP.CNTRY_NAME_CD, V.CLSTR_VW_CNTRY_HIER_LVL_3_NM, D.STATUS_ACTVY_IND

) "SQL2"

)
```

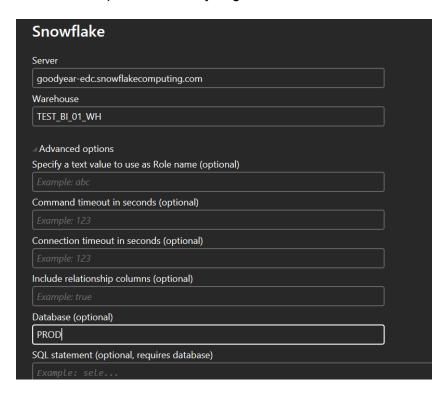
Static Date Filter In SQL

• Open Microsoft Power BI and click "Get Data" from the "Home" tab. Choose Snowflake as the data source.



**Getting Data From Snowflake** 

• Enter the "Server," "Warehouse," and "Database" details using the information from the Internal Tracker. Then paste the SQL you generated earlier.

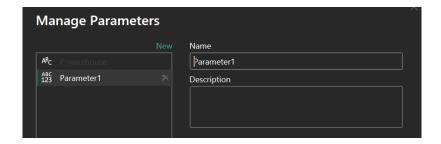


**Loading Data From Snowflake** 



#### **Snowflake Credentials To Be Used**

- Once connected, go to the "Transform Data" section.
- Choose "Direct Query" as the data connectivity mode.
- In the "Home" tab, click on "Manage Parameters" and select "New Parameter." Assign a name to your parameter and save it.



**Saving The Parameter** 

Open "Advanced Editor" from the "Home" tab. You'll see a query script there. Update the
warehouse name in the Source to match the one you created, ensuring it's not inside
double quotes.

```
let
Source = Value.NativeQuery(Snowflake.Databases("goodyear-edc.snowflakecomputing.com","TEST_BI_01_WH"){[Name="Fin Source"]
```

#### **Query In Advance Editor**

 In the script, locate the SQL query section starting from "WITH" and ending before "null," delete everything in that block and replace it with a variable. Then assign the variable to your SQL from Notepad, making sure all quotation marks are removed first using Find And Replace (Ctrl+F).

```
Source = Value.NativeQuery(Snowflake.Databases("goodyear-edc.snowflakecomputing.com", "TEST_BI_01_WH"){[Name="PROD"]}[Data], "WITH #

(1f)""SQL2"".as #(1f) (#(1f) SELECT#(1f) ""SQL2"".""CNTRY_NAME_CO"" As ""CNTRY_NAME_CO"", #(1f)

""SQL2"".""CLSTR_VW_CNTRY_HIER_LVL_3_NM"" AS ""CLSTR_VW_CNTRY_HIER_LVL_3_NM"", #(1f) ""SQL2"".""STATUS_ACTVY_IND"" AS

""STATUS_ACTVY_IND", #(1f) ""SQL2"".""FOS_WEB_NO_INSP"" AS ""FOS_WEB_NO_INSP"", #(1f)

""SQL2"".""FOS_EJOB_NO_INSP"" AS ""FOS_EJOB_NO_INSP"", #(1f) ""SQL2"".""FOS_WEB_INSP"" AS ""FOS_WEB_INSP"", #(1f)

""SQL2"".""FOS_EJOB_INSP"" AS ""FOS_EJOB_INSP"", #(1f) ""SQL2"".""FOS_WEB_INSP"" AS ""FOS_WEB_INSP"", #(1f)

""SQL2"".""FOS_EJOB_NO_INSP_PERCENT"" AS ""FOS_EJOB_NO_INSP_PERCENT"", #(1f)

""SQL2"".""FOS_EJOB_NO_INSP_PERCENT"" AS ""FOS_WEB_NO_INSP_PERCENT"", #(1f)

""SQL2"".""FOS_EJOB_NO_INSP_PERCENT"" AS ""FOS_WEB_NO_INSP_PERCENT"", #(1f)

""SQL2"".""FOS_EJOB_NO_INSP_PERCENT"" AS ""FOS_EJOB_INSP_PERCENT"", #(1f) ""SQL2"".""FOS_WEB_PERCENT"", #(1f)

""SQL2"".""FOS_EJOB_INSP_PERCENT"" AS ""FOS_EJOB_INSP_PERCENT"", #(1f) ""SQL2"".""FOS_WEB_PERCENT"", #(1f)

""SQL2"".""FOS_EJOB_INSP_PERCENT"" AS ""FOS_EJOB_PERCENT"", #(1f) "SQL2"".""FOS_WEB_PERCENT"" AS ""FOS_WEB_PERCENT"", #(1f)

""SQL2"".""FOS_EJOB_PERCENT"" AS ""FOS_EJOB_PERCENT"", #(1f) "SQL2"".""FOS_WEB_PERCENT"", #(1f)

""SQL2"".""FOS_EJOB_PERCENT"" AS ""FOS_EJOB_PERCENT"", #(1f) "SQL2"".""FOS_WEB_PERCENT"", #(1f)

"SQL2"".""FOS_EJOB_FERCENT" AS ""FOS_EJOB_PERCENT"", #(1f) "SQL2"".""FOS_WEB_PERCENT"", #(1f)

"SQL2"".""FOS_EJOB_FERCENT" AS ""FOS_EJOB_PERCENT"", #(1f) "SQL2"".""FOS_WEB_PERCENT"", #(1f)

"SQL2""."FOS_EJOB_FERCENT" AS ""FOS_EJOB_PERCENT"", #(1f) "SQL2"".""FOS_WEB_PERCENT"", #(1f)

"SQL2""."FOS_WEB_PERCENT" AS ""FOS_EJOB_PERCENT"", #(1f) "SQL2".""FOS_WEB_PERCENT"", #(1f)

"SQL2""."FOS_EJOB_FERCENT" AS ""FOS_EJOB_PERCENT"", #(1f) "SQL2".""FOS_WEB_PERCENT"", #(1f)

"SQL2""."FOS_WEB_PERCENT" AS ""FOS_EJOB_PERCENT"", #(1f)

"SQL2""."FOS_WEB_PERCENT" AS ""FOS_EJOB_PERCENT"", #(1f)

"SQL2".""FOS_WEB_PERCENT" AS "
```

**Original Query** 

## Writing The Query In Variable Query1

```
SQL2.FOS_WEB_PERCENT,

SQL2.FOS_EJOB_PERCENT",

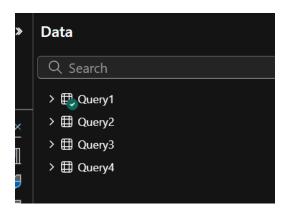
Source = Value.NativeQuery(Snowflake.Databases("goodyear-edc.snowflakecomputing.com","TEST_BI_01_WH"){[Name="PROD"]}{Data], Query1, null, [EnableFolding=true])

in

Source
```

### Adding The Variable To The Source

- Click "Close And Apply" to load the data into Microsoft Power BI.
- Once loaded, go to the "Data" tab to view the imported data.



Data Tab After Query Is Successfully Run

 Check the lineage for each column by looking at the alias names in the SQL and match them to the columns in your Microsoft Power BI table.