5th GLOBAL POWER PLATFORM BOOTCAMP 2024

Microsoft House - Milan

Boost your productivity with DAX Query View

Marco Englaro

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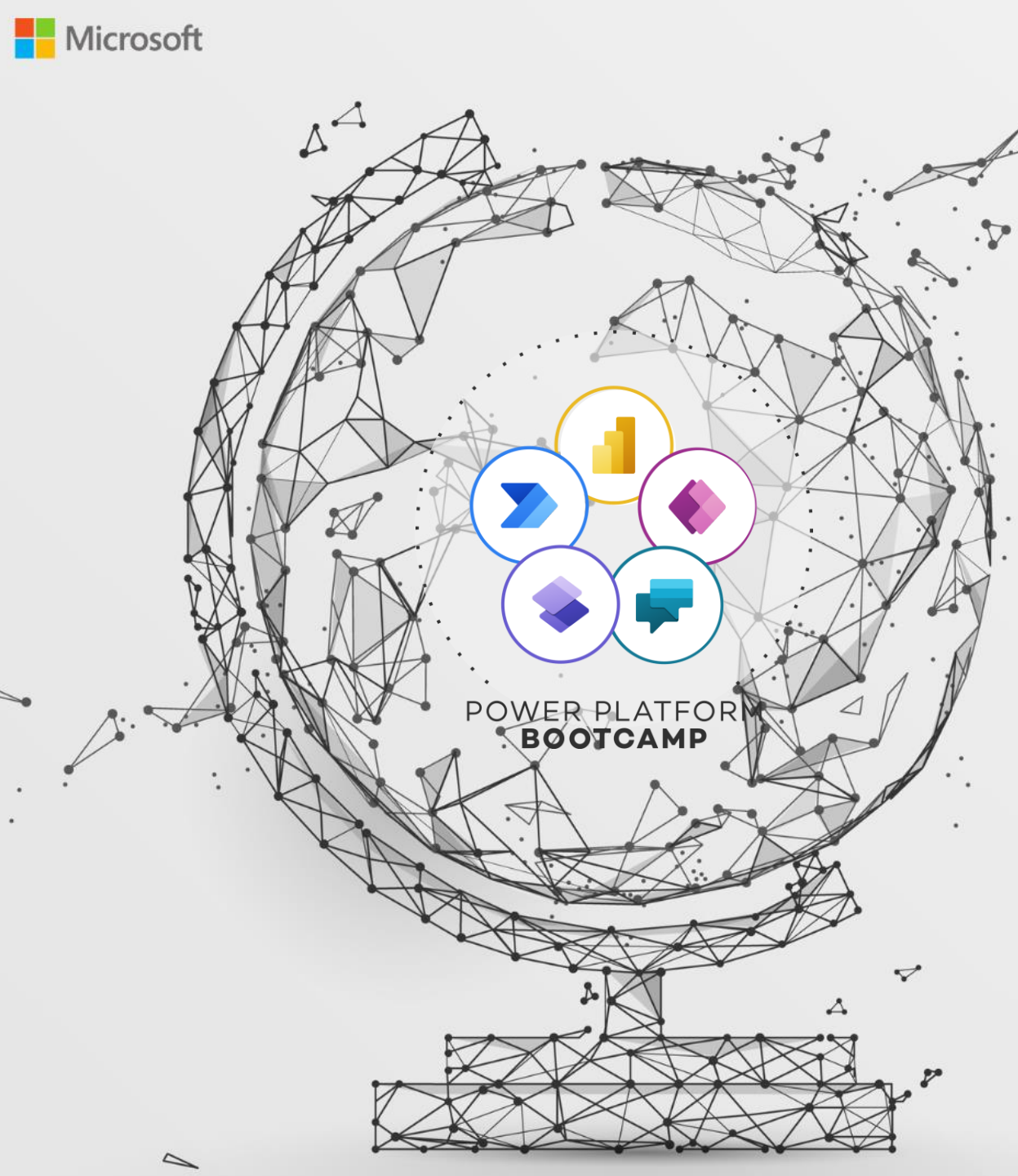

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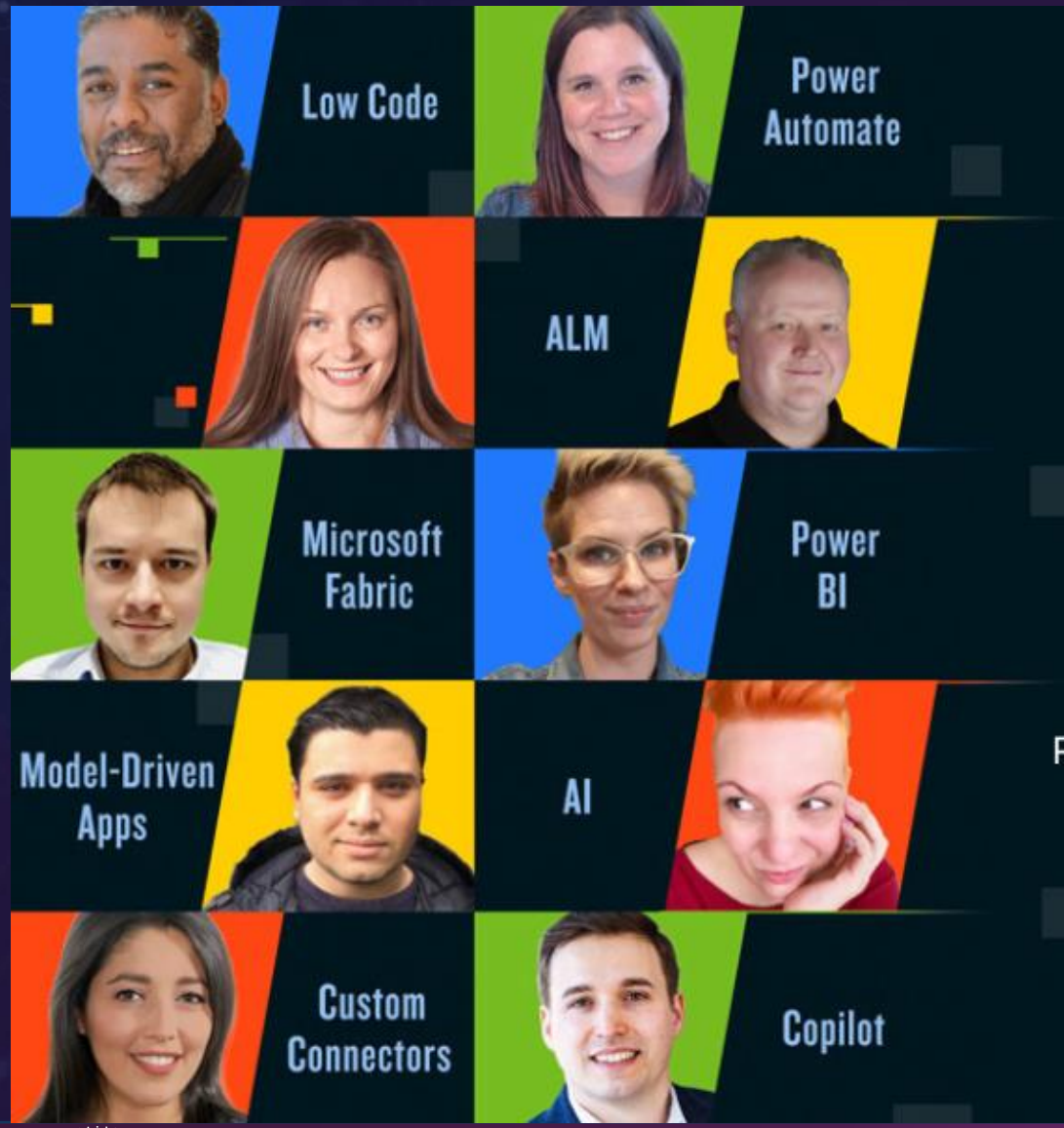

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Speak Intro Slide

- Cloud Solution Architect Data & AI @Microsoft
- Co-Founder Wallabies and FantaGoat

Agenda

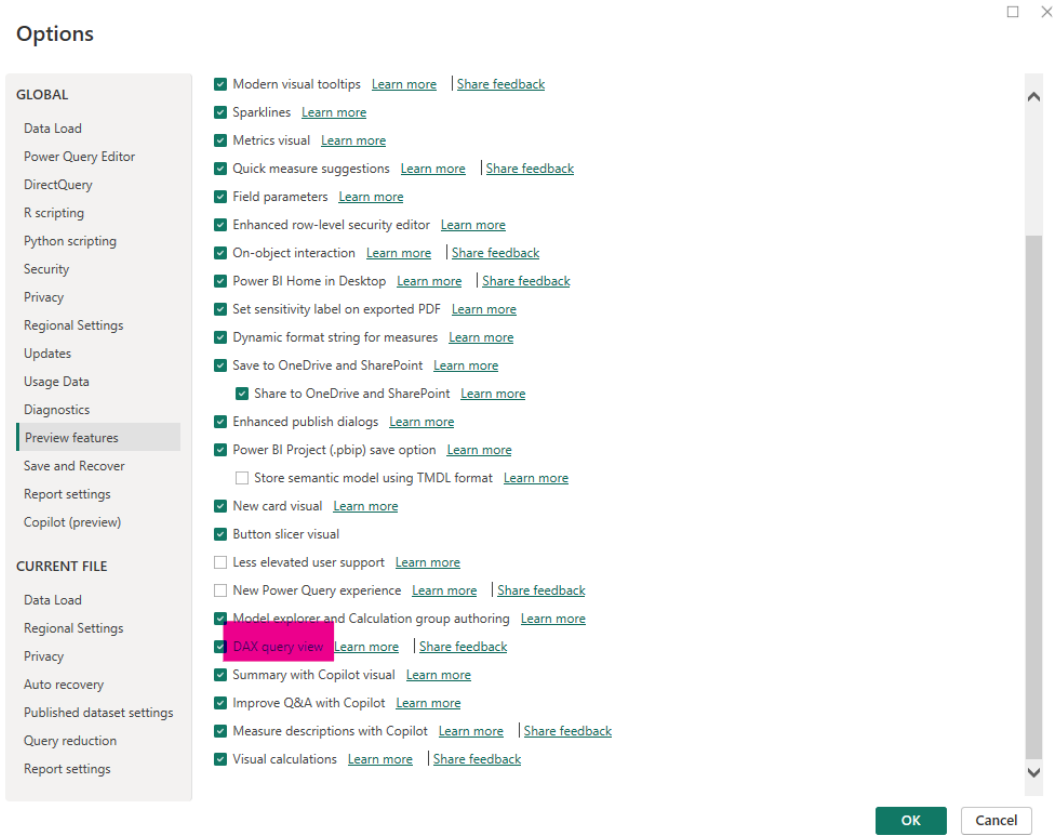
- Which is Dax Query View in Power Bi
- DQV Layout and Editor
- DQV CodeLens
- DQV Quick Queries
- DQV & Perfomance Analyzer
- New Info Dax Functions
- Common Scenario

WHAT IS DAX QUERY VIEW

The DAX Query view provides a convenient interface for working with DAX queries directly within Power Bi Desktop, enhancing the flexibility and analytical capabilities of your Power BI reports.

The DAX query view gives you the ability to write, edit, and see the results of DAX queries on your semantic model.

Finally, you can now take advantage of the existing DAX queries syntax while working with your semantic model without leaving Power BI Desktop.



DAX QUERY VIEW

#COMMUNITY REACTION

INCREDIBE

"The new **DAX Query View** is truly INCREDIBLE! I enjoy using this innovative feature directly in Power BI, rather than in DAX Studio, it makes my work so much easier. This view streamlines my DAX code development, making it much more efficient."

@Amal BEN REBAI – BI & Analytics Consultant

IMPROVEMENT

...DAX query view to save some of your test code, and staging tables. A great improvement from having to save hidden test and development report pages in your PBIX file. Tune in to learn more!

@Reid Havens – Microsoft MVP

AMAZING

DAX Query View the fourth view is an amazing feature added to the Power BI Desktop specially for those who write lot of DAX(Data Analysis Expression).

@Hashir Hameed – Data Analyst

QUALITY

The new DAX Query View in Power Bi desktop is good quality.

@Marco Russo – Business Intelligence Trainer

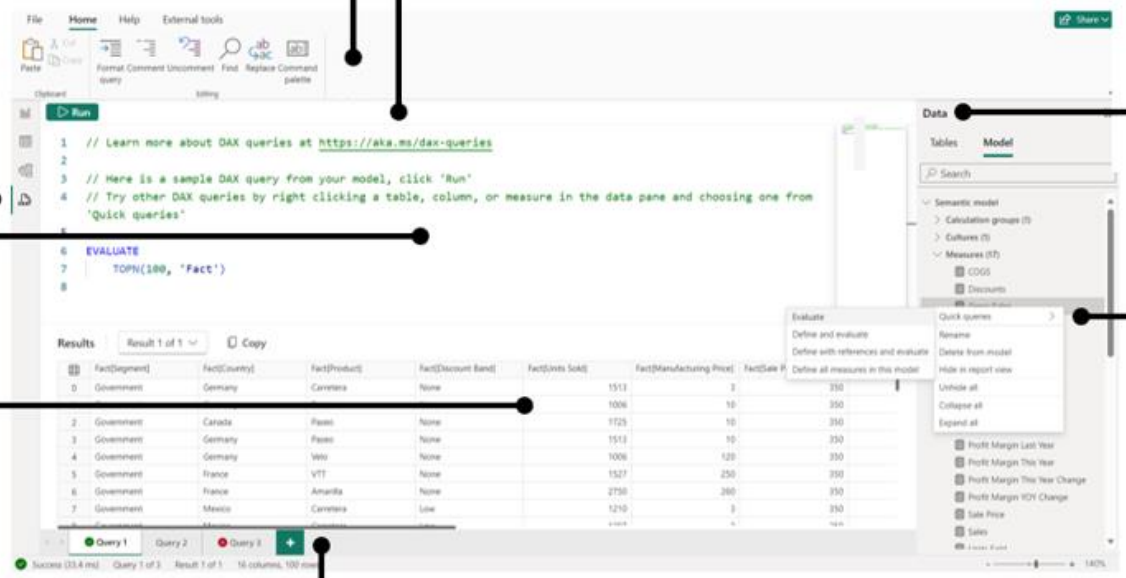
DQV – LAYOUT & EDITOR

Ribbon:
Common actions to help in writing DAX queries

Command bar:
Critical actions needed for running DAX queries

Data pane:
See model tables and columns to use in DAX queries.

DAX query view:
Access via 4th view in Power BI Desktop



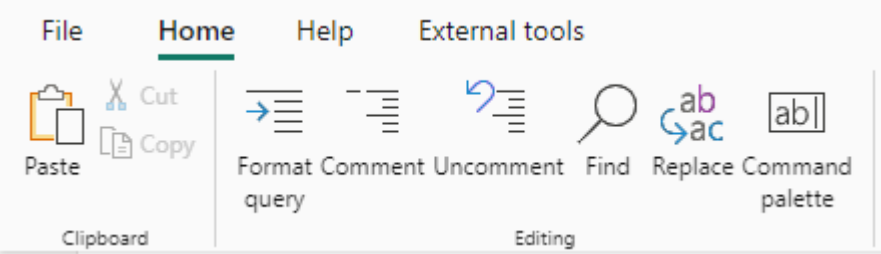
DAX query editor:
Write DAX queries

Results grid:
Results of the DAX query

Quick queries:
Generated DAX queries from tables, columns, and measures.

Query tabs:
Create, remove, and navigate multiple DAX queries & see status of queries

DQV – LAYOUT & EDITOR



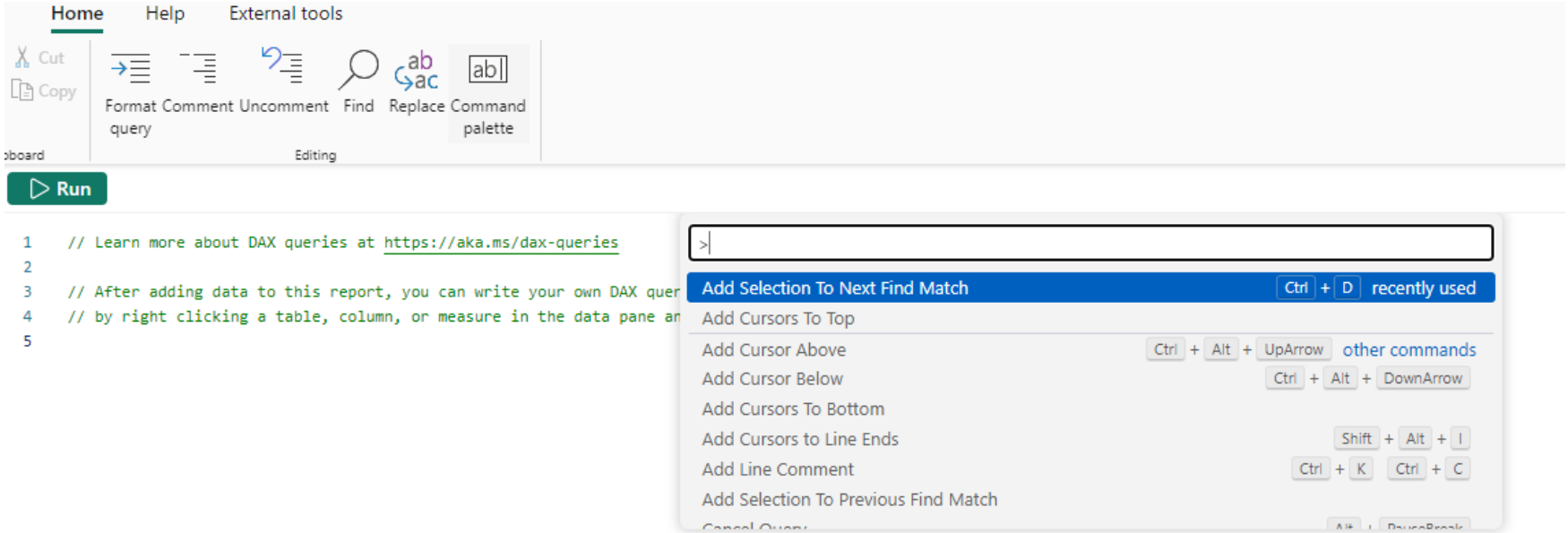
Format Query or SHIFT+ALT+F to format the current query.

- The query is indented with tabs.
- DAX functions are changed to UPPERCASE
- additional lines are added.

Formatting your DAX query is considered a best practice and improves the DAX query readability. The formatting also indents in such a way that you can collapse and expand sections of the query. (www.daxformatter.com)

DQV – LAYOUT & EDITOR

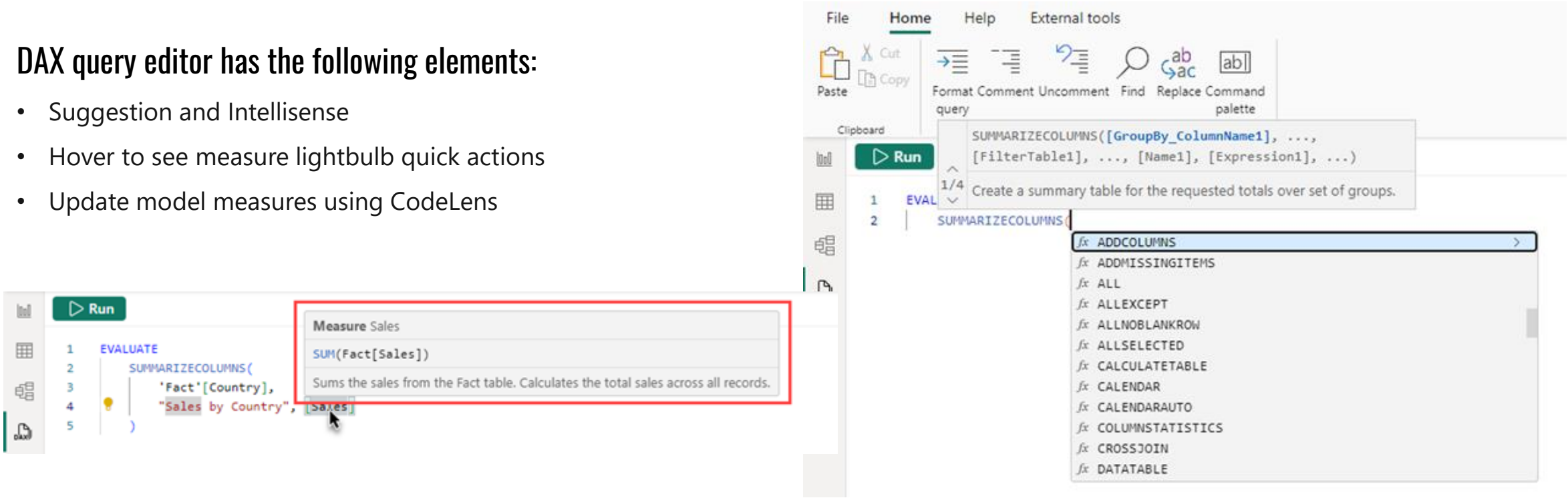
Command Palette or CTRL + ALT +P to open the command palette box.



DQV – LAYOUT & EDITOR

DAX query editor has the following elements:

- Suggestion and Intellisense
- Hover to see measure lightbulb quick actions
- Update model measures using CodeLens



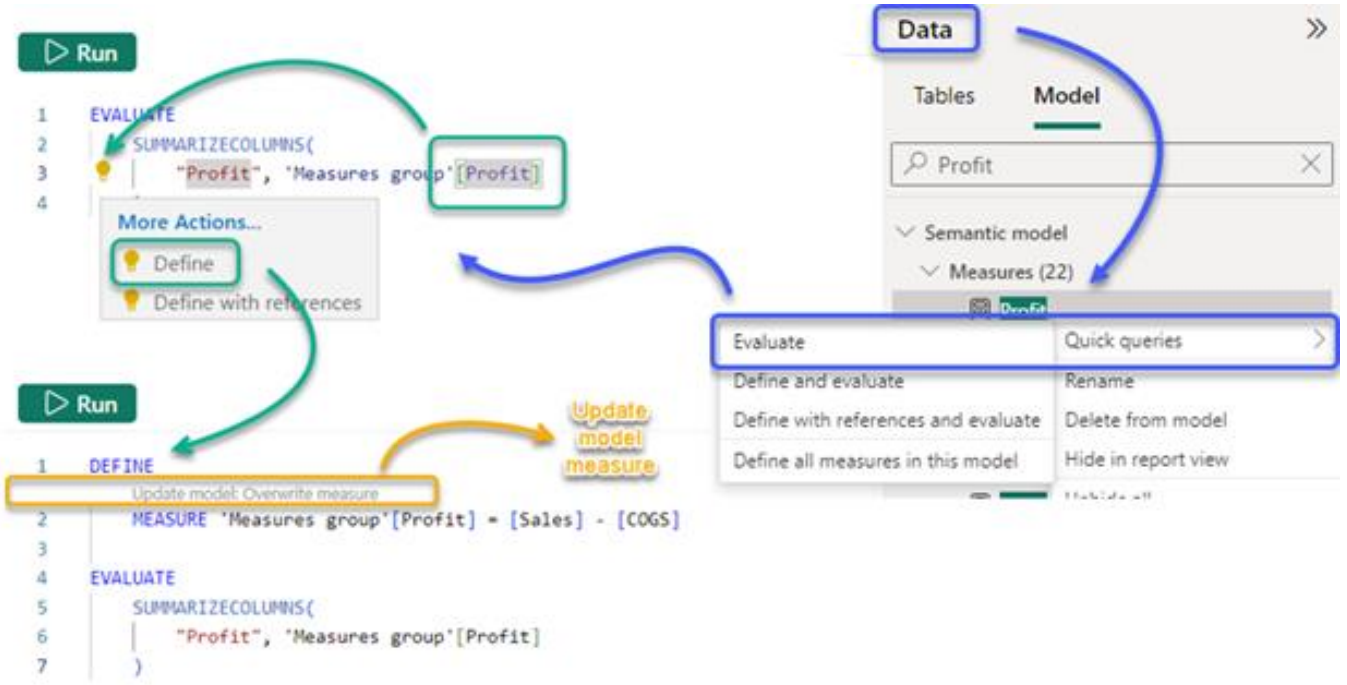
DQV – CODELENS

Using DEFINE MEASURE is helpful when creating measures.

You can edit multiple measures in one window and then run the query to see the results of all or just some of them with specific group by columns.

You don't need to create a table visual in Report view and switch back and forth between measure formulas.

CodeLens takes this one step further by providing prompts when the measure already exists in the model, or if it doesn't, it can add it.



DQV – QUICK QUERIES

The Data pane context menu includes Quick queries.

Use quick queries to create queries in a new query tab for tables, columns, and measures.

Quick queries are designed to be a productivity boost for common tasks and built so they can easily be further modified.

All quick queries are created in a new query tab and are run automatically.

TABLES

- Show top 100 rows
- Define all measures in this table

COLUMNS

- Show Data Preview
- Show Columns Statistics

MEASURES

- Evaluate
- Define and Evaluate
- Define with Reference and Evaluate

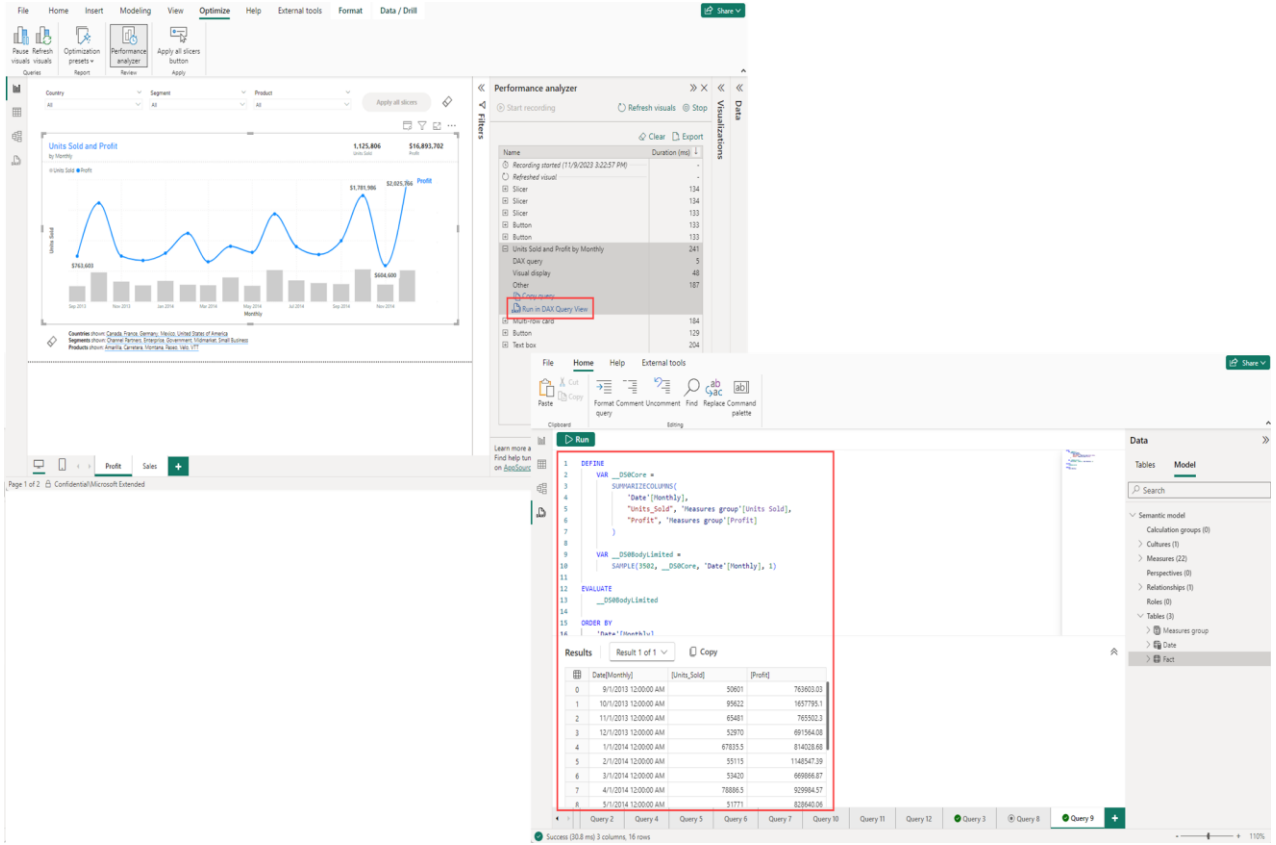
DEMO CODELENS
&
QUICK QUERIES

DQV – PERFORMANCE ANALYZER

Visuals in Report view get data from the model by creating a DAX query.

The visual query can be viewed in DAX query view by using Performance Analyzer.

Performance Analyzer can give you insight into why a visual may be showing an unexpected value or simply as a way to quickly start a query you can further modify.



DQV – NEW INFO DAX FUNCTION

There are over 50 new INFO DAX functions now available!

Those of you who are familiar with the Dynamic Management Views, or DMVs, of models in Power BI, Azure Analysis Services, and SQL Server Analysis Services will recognize these as the TMSCHEMA DMVs.

- No longer do you have to use a different query syntax than DAX to see information about your semantic model! They are native DAX functions and show in IntelliSense when you type INFO.
- You can join them together using other DAX functions! Existing DMV query syntax does not allow you to join them. As DAX function, the output is a Table data type and existing DAX functions that join tables or summarize tables can be used.

DAX query view introduces new INFO DAX functions | Microsoft Power BI Blog | Microsoft Power BI

INFO.TABLES contains information about the tables in the model, such as the table name, description, and whether it is hidden or not.

INFO.COLUMNS contains information about the columns in a model, such as the column name, data type, and whether it is hidden or not.

INFO.MEASURES contains information about the measures in the model, such as the measure name, expression, and format string.

One thing you cannot do with these functions is use them in calculated tables, calculated columns, and measures.

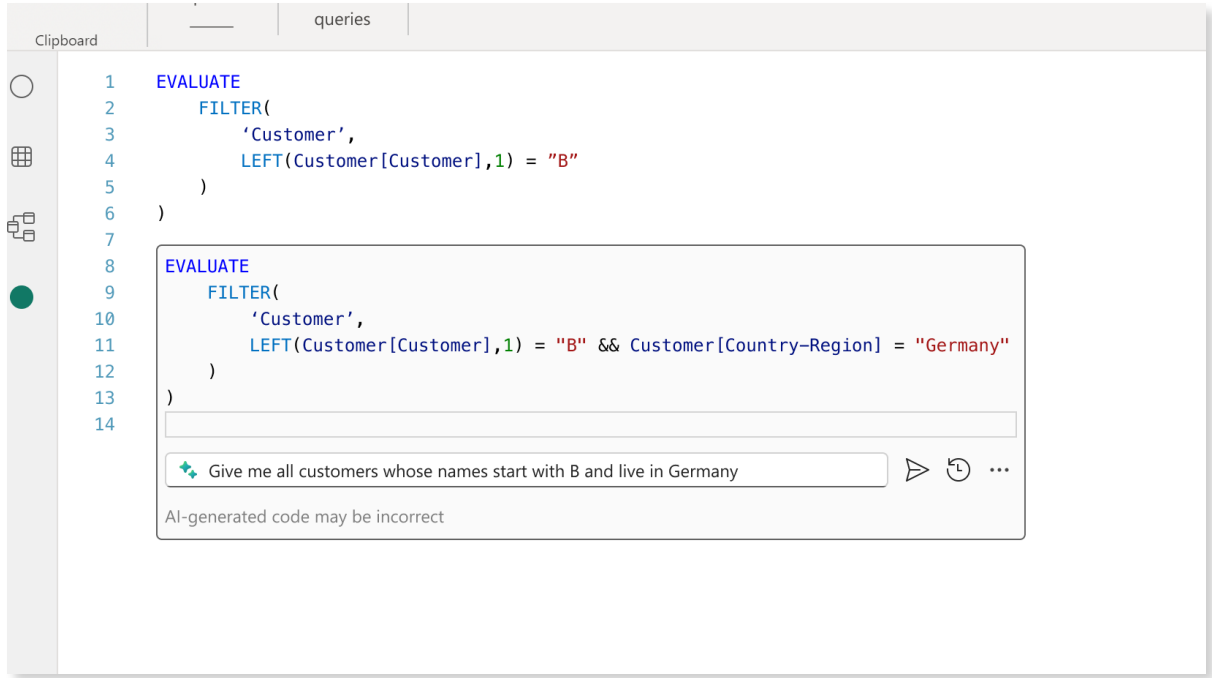
DEMO
COMMON SCENARIO

#SPOILER

Uplevel your skills with Copilot so you can spend more time focused on your data and less time on writing code

- Use **Copilot** to define metrics and calculations for your data model just by describing them in natural language
- Let **Copilot** automatically suggest DAX code and entire functions in real-time

Creating metrics and calculations



DQV – CREDITS

DAX query view in Power BI Desktop - Power BI | Microsoft Learn

https://powerbi.microsoft.com/en-us/blog/dax-query-view-introduces-new-info-dax-functions/

https://www.datazoepowerbi.com/post/relationships-dax-query-using-info-relationships

Boost your productivity with DAX Query View in Power BI Desktop!

DAX Query Best Practices and Historical Context (with Jeffrey Wang)

https://www.sqlbi.com/tv/unboxing-dax-query-view-in-power-bi-unplugged-54/

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