

Thank you to our Fabric February Friends!

twoday



bouvet

sopra  **steria**



DATAmasterminds



KURANT



Boosting Efficiency with Copilot in Microsoft Fabric


FABRIC FEBRUARY 2025

OSLO

About me



Data Engineer
PRIMO - Microsoft

 [/anu--singh](https://www.linkedin.com/in/anu--singh)



Copilot

AI powered assistant that assists you with tasks, insights, and creativity, making your work easier and more efficient

Microsoft Copilot Ecosystem

Microsoft 365
Copilot

Microsoft Security
Copilot

Dynamics 365
Copilot

Power Platform
Copilot

Bing

GitHub Copilot

Nuance

Your own Copilot



Microsoft Copilot

Use Copilot as a tool, not a replacement



Copilot can help you with writing, editing, or formatting your content, but it cannot replace your creativity, judgment, or expertise

Use Copilot as a source of inspiration, not a source of truth



Copilot can suggest ideas, headlines, summaries, or bullet points, but it cannot guarantee their accuracy, relevance, or originality.

Use Copilot as a collaborator, not a competitor



Copilot can help you with various tasks, but it cannot replace your team members, colleagues, or clients.

Learn it. Use it. Love it. Improve it.

COPILOT FOR MICROSOFT FABRIC

Microsoft Fabric

All-in-one analytics solution

Designed to simplify analytics with an integrated, end-to-end, and user-friendly product

Covers everything from data movement to data science, real-time analytics, and business intelligence

Comprehensive suite of services, including data lake, data engineering, and data integration, all in one place

Built on a Software as a Service (SaaS) foundation to enhance simplicity and integration.



Data Factory



Data Engineering



Data Warehouse



Data Science



Real-Time Intelligence



Power BI



Partner & Industry workloads



Copilot in Fabric



OneLake



Microsoft Purview

Fabric Copilot Capacity



Copilot

Capacity

Workspace: F64/ P1 or higher.
User: F64/ P1 or higher assigned as Fabric Copilot Capacity

Region

Specific regions

If your tenant or capacity is outside the US or France, Copilot is disabled by default unless enabled by Tenant Admin

Copilot for Microsoft Fabric



**Data
Factory**



**Data Engineering &
Data Science**



**Data
Warehouse**



**SQL
database**



**Real-Time
Intelligence**



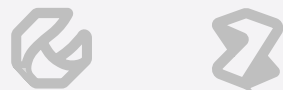
Power BI

Copilot for Data Factory



**Data
Factory**

Preview



**Data Engineering &
Data Science**



**Data
Warehouse**



**SQL
database**



**Real-Time
Intelligence**



Power BI

Copilot for Data Factory: Data Pipelines

Describe your desired pipeline in natural language, and Copilot will **generate the required activities**.

Get clear explanations and actionable guidance for **troubleshooting Data pipeline issues**.

Provide a **summary of your complex pipeline**, detailing the content and relationships of activities.

The screenshot shows the Copilot interface for Data Pipelines. The top navigation bar includes 'Home', 'Activities', 'Run', and 'View'. Below this is a toolbar with icons for saving, undo, redo, and other actions. The main workspace is currently empty, with a 'New' button visible. On the right side, the Copilot chat window is open, displaying a list of suggested actions: 'Ingest data', 'Transform your data', and 'Summarize this pipeline'. The 'Summarize this pipeline' option is highlighted with a purple border. Below the suggestions is a text input field for user prompts and a send button. A disclaimer at the bottom of the chat window states: 'AI-generated content can have mistakes. Make sure it's accurate and appropriate before using it. [Review Terms](#)'.

Copilot for Data Factory: Data Pipelines

The screenshot displays the Microsoft Fabric user interface. At the top, the workspace name 'DE_LH_Bronze' and 'Confidential/Microsoft Extended' are visible. A search bar is present in the top right. The main area shows a notification about a SQL analytics endpoint and a default Power BI semantic model. Below this, the 'Explorer' pane on the left shows the workspace 'DE_LH_Bronze' selected. The 'Files' pane on the right displays a table of files:

Name	Date modified	Type	Size
Episodes.csv	2/1/2025 3:46:49 PM	csv	93 KB
battles.csv	2/1/2025 3:59:14 PM	csv	8 KB

The interface also includes a sidebar with navigation options like Home, Workspaces, OneLake, Monitor, Real-Time, Workloads, and WS-GameOfTh..., and a bottom navigation bar with the Fabric logo.

Copilot for Data Factory: Dataflow Gen2

Generate **new transformation steps** for an existing query.

Provide a **summary of the query** and the applied steps.

Generate a **new query** that may include sample data or a reference to an existing query.

Power Query | DF_DFL_GetData | Dataflow saved | Search (Alt + Q)

Home Transform Add column View Help

Queries [3]

- lords
- people
- Query

people 3 steps

	id	noble_id	h
1	1	1	1
2	3	3	3
3	4	11	11
4	5	13	13
5	6	12	12
6	7	8	8
7	8	58	58

Copilot 17:37

What would you like to do?

I can transform your data or explain how it's being transformed.

Not sure where to start? Try one of these options:

- Get data from...
- Add a step that...
- Describe this query

Describe what you'd like to do

AI-generated content can have mistakes. Make sure it's accurate and appropriate before using it. [Review terms](#)

Step

Publish

Copilot for Data Factory: Dataflow Gen2

The screenshot displays the Microsoft Fabric Dataflow Gen2 interface. The top navigation bar includes the current dataflow name "DF_DFL_GetData", a search bar, and a trial status indicator "Trial: 26 days left". The main workspace shows a "Home" tab with a menu of options: "Home", "Transform", "Add column", "View", and "Help". Below the menu is a toolbar with various data manipulation icons. The central workspace area contains four import options: "Import from Excel", "Import from SQL Server", "Import from a Text/CSV file", and "Import from dataflows". Below these options are two links: "Get data from another source ->" and "Import from a Power Query template". On the right side, the Copilot sidebar is active, showing a chat interface with the following messages:

- 15:05: "Also add the episode names"
- 15:05: "I added the following step to your query 'Query':
Add column"
- 15:06: "Create a new query with the episodes of the game of thrones"
- 15:06: "I created the following query for you:
Query"

At the bottom of the Copilot sidebar, there is a text input field labeled "Describe what you'd like to do" and a "Publish" button. A disclaimer at the bottom of the sidebar reads: "AI-generated content can have mistakes. Make sure it's accurate and appropriate before using it. [Review settings](#)".

Copilot for Data Engineering & Data Science



Data
Factory



Data Engineering &
Data Science

Preview



Data
Warehouse



SQL
database



Real-Time
Intelligence



Power BI

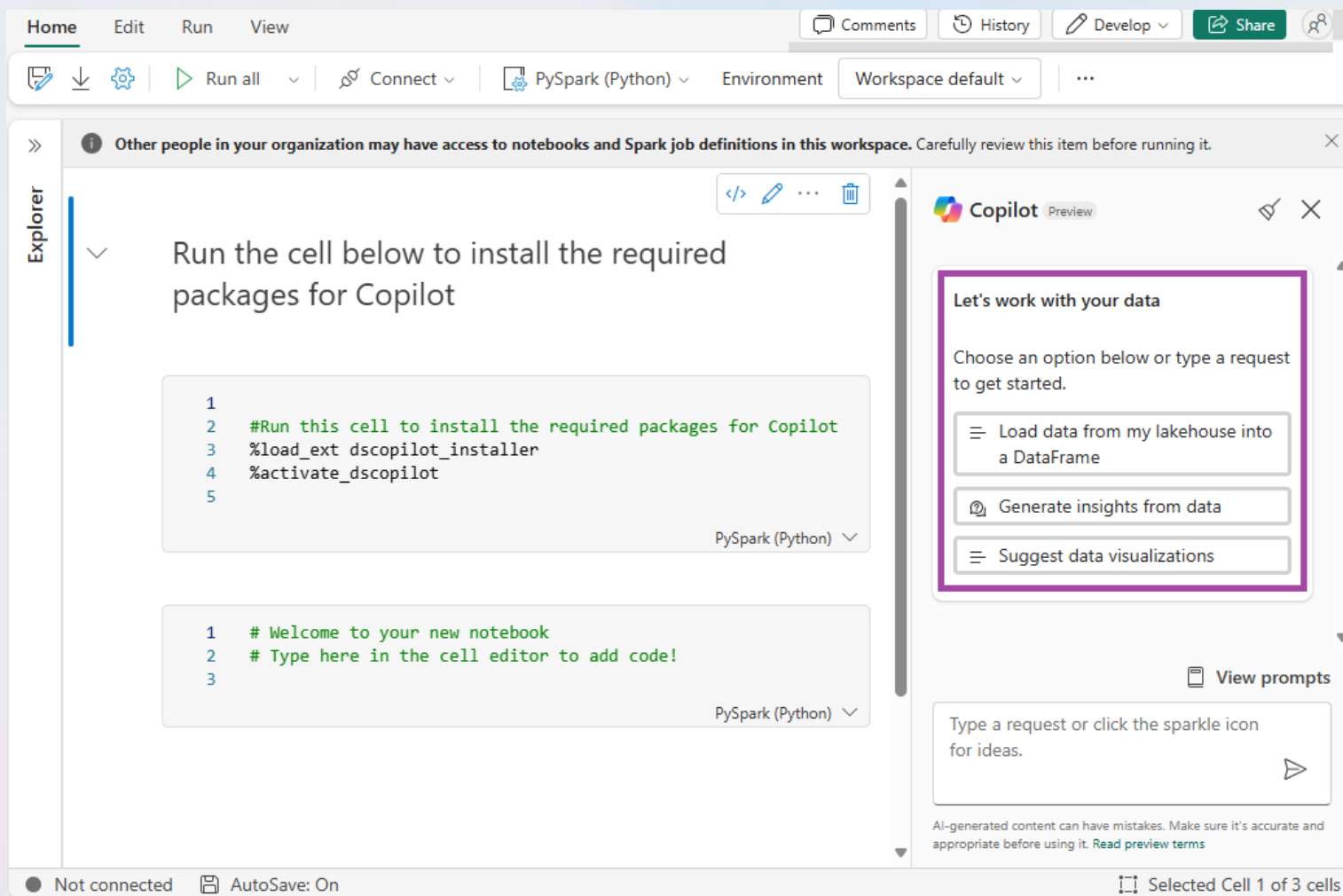
Copilot for Data Engineering

Generate code, query data, and get suggestions interactively to accelerate your workflow.

Quick data exploration and predictive analytics capabilities.

Provide natural language explanations of notebook cells and overview for notebook activity as it runs.

Fix notebook run errors as they arise.



The screenshot displays the Databricks Copilot interface. At the top, there are navigation tabs: Home, Edit, Run, and View. Below these are utility buttons for Comments, History, Develop, and Share. The main workspace area shows a notebook cell with the following code:

```
1  
2 #Run this cell to install the required packages for Copilot  
3 %load_ext dscopilot_installer  
4 %activate_dscopilot  
5
```

Below the code cell, there is a welcome message:

```
1 # Welcome to your new notebook  
2 # Type here in the cell editor to add code!  
3
```

On the right side, the Copilot sidebar is visible, titled "Copilot Preview". It contains a section "Let's work with your data" with the instruction "Choose an option below or type a request to get started." Three options are listed:

- Load data from my lakehouse into a DataFrame
- Generate insights from data
- Suggest data visualizations

At the bottom of the sidebar, there is a "View prompts" button and a text input field with the placeholder "Type a request or click the sparkle icon for ideas." and a submit button. A disclaimer at the bottom of the sidebar reads: "AI-generated content can have mistakes. Make sure it's accurate and appropriate before using it. Read preview terms".

At the bottom of the interface, there are status indicators: "Not connected", "AutoSave: On", and "Selected Cell 1 of 3 cells".

Copilot for Data Engineering

Prerequisite: Required packages needs to be installed for using Copilot

Chat panel

create dataframes dataframes df_kingdoms, df_reigns, df_kings, df_nobles and df_people from corresponding tables in lakehouse

Combine df_kingdoms, df_reigns, df_kings, df_nobles, and df_people to analyse relationship

Transform the data to create a network graph of relationships

Chat-magic

```
%set_sharing_level?
```

```
%%fix_errors
```

```
%%code  
load castles in temporary view and remove rows where region_id is duplicate
```

```
%%code  
remove duplicate rows from dataframes df_kingdoms, df_reigns and df_people
```

Copilot for Data Engineering

The screenshot displays the Databricks workspace interface. At the top, there is a search bar and a notification: "Other people in your organization may have access to notebooks and Spark job definitions in this workspace. Carefully review this item before running it." The main workspace area shows a notebook cell with the following code:

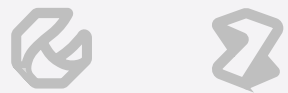
```
1 Press Alt+I to get code from Copilot (preview).
```

The interface includes a sidebar with navigation options like Home, Workspaces, Lakehouses, and Tables. The current workspace is "DE_LH_Bronze" and the current table is "lords". The bottom status bar indicates "Session timeout. Run the notebook to start a new session." and "AutoSave: On".

Copilot for Data Warehouse



Data
Factory



Data Engineering &
Data Science



Data
Warehouse

Preview



SQL
Database



Real-Time
Intelligence



Power BI

Copilot for Data Warehouse

Generate SQL queries using simple natural language

Get AI-powered **code completions** as you write your query

Fix and explain SQL queries with readily available actions (Quick Actions)

Receive **smart suggestions and insights** based on your warehouse schema and metadata

The screenshot displays the Microsoft Data Warehouse interface with the Copilot AI assistant integrated into the workflow. The interface is divided into several sections:

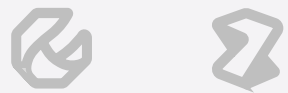
- Home / Reporting:** The top navigation bar.
- Explorer:** A sidebar on the left showing a tree view of the data warehouse structure, including Warehouses (DW_DWH_Gold), Schemas (dbo, INFORMATION_..., queryinsights, sys), Security, and Queries (My queries, SQL query 1, Shared queries).
- Model layouts:** A section above the query editor showing the current model layout.
- SQL query 1:** The main query editor window. It contains a prompt: "Start writing T-SQL and Copilot will suggest what comes next. Accept with Tab or keep typing to change. Right click on editor to view command palate." Below the prompt, there are quick action buttons: Run, Save as view, Explain query, and Fix query errors.
- Copilot (Preview):** A panel on the right side of the interface. It features a "Let's work with your data" section with a "Select a category to get started." prompt. Three categories are listed: Help (What can Copilot do?), Create (Add a table to the database [to hold weather data (date, zip, temperature, and rainfall).]), and Ask (What can I ask to help me identify trends and strategic opportunities?). At the bottom of this panel, there is a text input field with the placeholder "Ask me anything about this warehouse, or tell me how I can help." and a "View prompts" link.

At the bottom of the interface, there are two status indicators: "Copilot completions: On" and "Copilot completions: Ready".

Copilot for SQL Database



Data
Factory



Data Engineering &
Data Science



Data
Warehouse



SQL
Database

Preview



Real-Time
Intelligence



Power BI

Copilot for SQL Database

Generate SQL queries using simple natural language

Get AI-powered **code completions** as you write your query

Fix and explain SQL queries with readily available actions (Quick Actions)

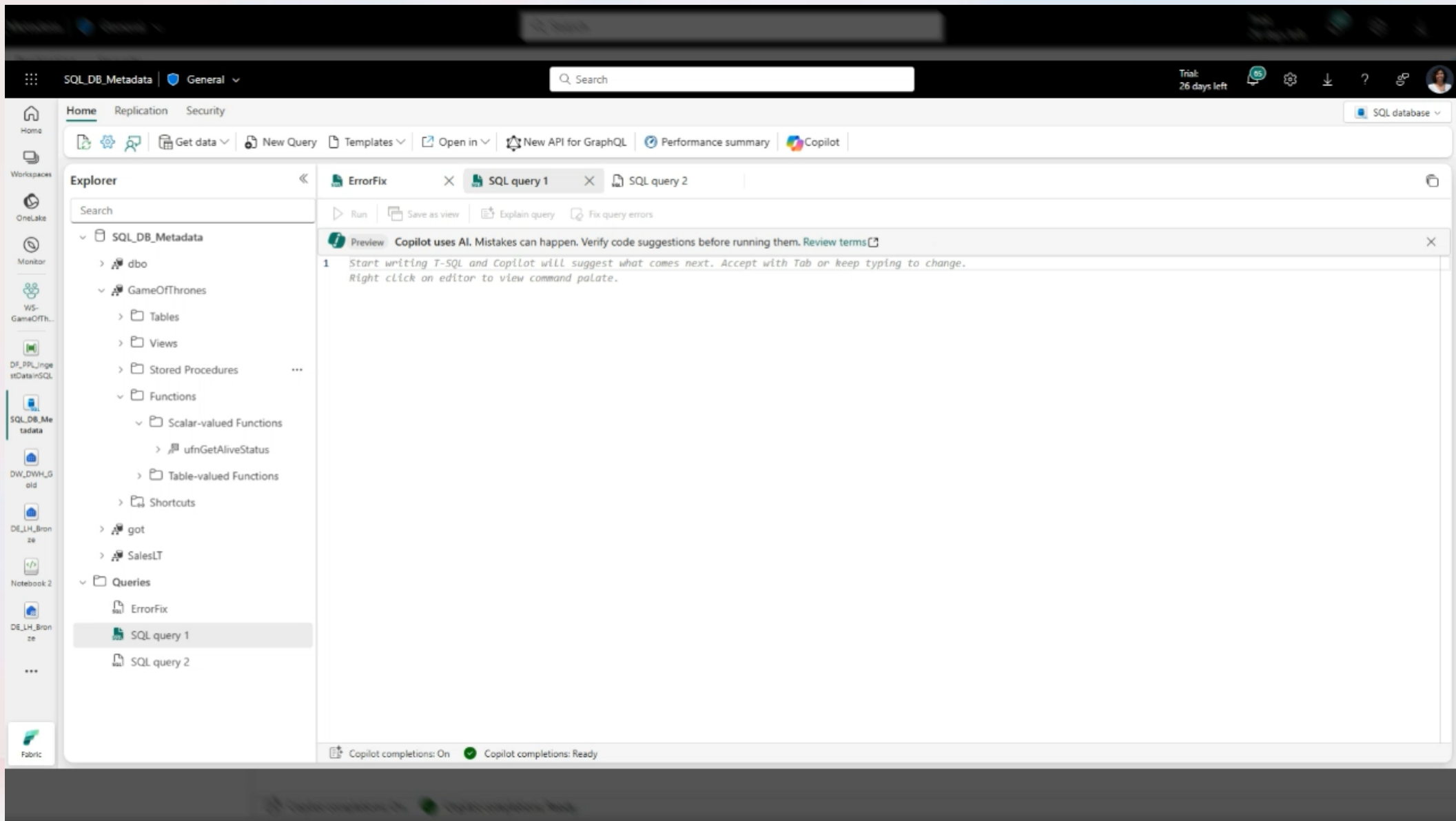
Receive **smart suggestions and insights** based on your warehouse schema and metadata

The screenshot displays the Microsoft SQL Server Copilot interface. At the top, there are navigation tabs for 'Home', 'Replication', and 'Security'. Below these are various tool icons and buttons: 'Get data', 'New Query', 'Templates', 'Open in', 'New API for GraphQL', 'Performance summary', and 'Copilot'. The main workspace is divided into three sections:

- Explorer:** Shows a tree view of the database structure. Under 'SQL_DB_Metadata', there are folders for 'dbo', 'GameOfThrones', 'got', and 'SalesLT'. Under 'Queries', there are files for 'ErrorFix', 'SQL query 1' (selected), and 'SQL query 2'.
- SQL query 1:** The active query editor. It features a 'Run' button, 'Save as view', 'Explain query', and 'Fix query errors' options. A 'Preview' window is open, displaying a message: 'Copilot uses AI. Mistakes can happen. Verify code suggestions before running them. Review terms'. Below this, a numbered list item reads: '1 Start writing T-SQL and Copilot will suggest what comes next. Accept with Tab or keep typing to change. Right click on editor to view command palate.'
- Copilot:** A sidebar on the right with a 'Preview' label. It contains a section titled 'Let's work with your data' with the instruction 'Select a category to get started.' Below this are three interactive cards:
 - Create a table:** 'Create a table [to store employee data (EmployeeID, full name, hire date)]'
 - Get insights:** 'Retrieve the total number of tables in my database.'
 - Ask a question:** 'What data types are available?'At the bottom of the Copilot sidebar, there is a text input field with the placeholder 'Ask me anything about this database, or tell me how I can help.' and a '0 / 500' character count. A 'Review terms' link is also present.

At the bottom of the interface, there are two status indicators: 'Copilot completions: On' and 'Copilot completions: Ready'.

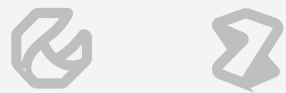
Copilot for SQL Database



Copilot for Microsoft Fabric: Real-Time Intelligence



Data
Factory



Data Engineering &
Data Science



Data
Warehouse



SQL
database



Real-Time
Intelligence

Preview



Power BI

Copilot for Real-Time Integration

Ask questions about your real-time data in conversational language

Generate KQL queries based upon the questions

Enhance the queries or ask follow up questions using conversational interactions

Home Help

Save Copilot

RTI_EH_FabFeb RTI_EH_FabFeb

Explorer

Search

RTI_EH_F... RTI_EH_FabFeb

Tables

- Weather
- Materialized View
- Shortcuts
- Functions

Run a query and explore the results here

Copilot Preview

Welcome to Copilot in KQL Queryset

Use natural language to help you write your KQL queries

- Inaccuracies are possible.** Carefully review content created by AI before using it.
- Send us your feedback.** Help us improve by sending feedback for generated KQL queries.

[Learn more](#)
[Read preview terms](#)

What do you want to know about the data?

0 / 500

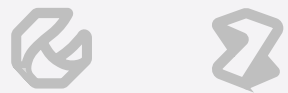
Copilot for Real-Time Integration

The screenshot displays the Microsoft Fabric user interface. At the top, the workspace name "RTI_EH_FabFeb_queryset" is shown, along with a search bar and a trial status indicator ("Trial: 25 days left"). The main workspace area is titled "RTI_EH_FabFeb" and contains a toolbar with actions like "Run", "Preview", "Recall", "Copy query", "Pin to dashboard", "KQL Tools", "Export to CSV", "Create Power BI report", and "Set alert". On the left, the "Explorer" pane shows a tree view with categories: "Tables", "Materialized View", "Shortcuts", and "Functions". The "Tables" category is expanded, and the "Weather" table is selected. The main query editor area is currently empty, displaying a large magnifying glass icon and the text "Run a query and explore the results here".

Copilot for Microsoft Fabric: Power BI



Data
Factory



Data Engineering &
Data Science



Data
Warehouse



SQL
database



Real-Time
Intelligence



Power BI

Generally
Available

Copilot for Power BI

Clean & prepare your semantic model

Copilot can derive insights from it

Semantic model overview

Create a narrative

Enhance Q&A

Summarise the data in the report

Build DAX query

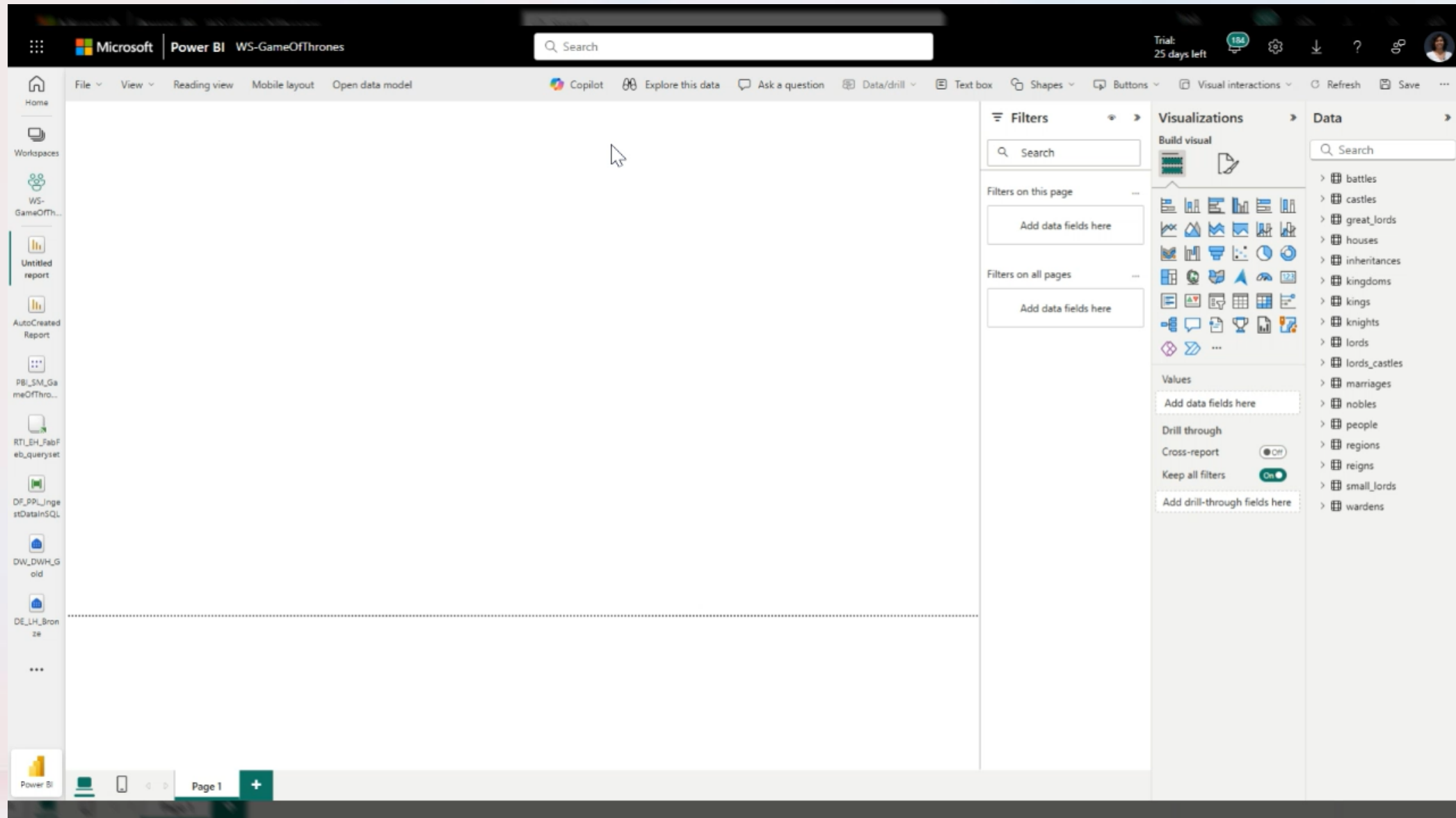
Create measure descriptions

Create a new report page

Summary in Report Subscriptions

The screenshot displays the Power BI Copilot interface. The main report area shows two bar charts: 'Count of nobles by region_id' and 'Count of biography by region_id'. The 'Count of nobles' chart has a y-axis labeled 'region_id' with values 6, 1, 5, 3, 2, 9, 7, 4, 8 and an x-axis labeled 'Count of nobles' with values 0, 5, 10, 15, 20. The 'Count of biography' chart has a y-axis labeled 'region_id' with values 1, 6, 3, 9, 5, 2, 4, 7, 8 and an x-axis labeled 'Count of biography' with values 0, 2, 4, 6, 8, 10, 12, 14. A 'Key Highlights from the AutoCreatedReport' section is visible, listing: 'Count of Nobles, People, Name, and Biography', 'There are 94 nobles', 'There are 98 people', 'There are 97 names', 'There are 32 biographies', and 'Counts by Region' with sub-points for highest and lowest counts of nobles and people across regions. The Copilot sidebar on the right includes a search bar, a list of data fields (battles, castles, great_lords, houses, inheritances, kingdoms, kings, knights, lords, lords_castles, marriages, nobles, people, regions, reigns, small_lords, wardens), and a 'Values' section with 'Add data fields here'. Below the sidebar are sections for 'Drill through', 'Cross-report', 'Keep all filters', and 'Add drill-through fields here'. The Copilot chat area on the far right contains a welcome message, a list of suggested actions (Create a new report page, Suggest content for a new report page, Answer a question about the data), and a text input field for user queries.

Copilot for Power BI



Build DAX queries & Write Measure Descriptions

Build a DAX query

Summarise any DAX query

Understand DAX concepts

Write Measure Descriptions

The screenshot shows the Microsoft Power BI DAX query editor interface. The top bar includes the workspace name 'PBI_SM_GameOfThrones', a search bar, and a 'Trial 25 days left' notification. The main editor area contains a DAX query with the following text:

```
1 // Welcome to DAX query view! Learn more about DAX queries at https://aka.ms/dax-queries.
2 // Right-click on tables, columns, or measures in the data pane to access quick queries, or ask Copilot for help writing DAX.
3
4 |
```

The interface also features a 'Data' pane on the right with a search bar and a list of tables: battles, castles, great_lords, houses, inheritances, kingdoms, kings, knights, lords, lords_castles, marriages, nobles, people, regions, reigns, small_lords, and wardens. The 'Results' pane at the bottom is currently empty, displaying the message 'Your query results will show up here'. The bottom status bar shows 'Query 1 of 2' and a zoom level of 100%.

Summary in Subscriptions[^]

Include a Copilot generated summary for Power BI report page or full report attachment in email subscription to get insights

Join us at FabCon Las Vegas from March 31 to April 2, 2025 for the ultimate Fabric, Power BI, SQL and AI community-led learning event. Use code MSCUST for \$

File Export Share Explore Subscribe Set alert Edit

Quick summary

PBI_SM_GameOfThrones

94 Count of nobles | 98 Count of people

Count of nobles by region_id

region_id	Count of nobles
6	23
1	16
5	14
3	13
2	8
9	7
7	6
4	5
8	2

At 23, 6 had the highest Count of nobles and was 1,050.00% higher than 8, which had the lowest Count of nobles at 2.

6 accounted for 24.47% of Count of nobles.

Across all 9 region_id, Count of nobles ranged from 2 to 23.

Count of people by region_id

region_id	Count of people
6	15
1	14
5	13
3	11
9	8
2	6
7	5
4	2
8	2

Count of name by region_id

region_id	Count of name
6	15
1	14
5	13
3	11
9	8
2	6
7	5
4	2
8	2

Subscriptions

Keep track of your data by subscribing to this report.

The sensitivity label on this report does not appear in emails.

Manage all

Start date * 02/02/2025 End date Select a date

Repeat * Daily

Scheduled time * 7 30 PM

Time zone * (UTC) Dublin, Edinburgh, Lisbon, Londc

Emails will be sent daily at 07:30 PM (UTC) Dublin, Edinburgh, Lisbon, London starting Sunday 2 February 2025.

Summary by Copilot (preview)

Include an AI-generated summary, which will update according to the latest data. Preview a sample of the summary to see what it may look like.

Copilot uses AI. Mistakes are possible. [Read terms](#)

Preview summary

On

More options

Send now

Subscription must be saved before sending.

Save New subscription

Create a narrative

Add **generative AI summaries**

Summarize the report, specific pages, or visuals

Provides suggested prompts

Customizable prompts to **fine tune the language, scope, and formatting** of generated summaries

Includes citations in all insights

Summaries **automatically regenerate** when filters change.

File View Reading view Mobile layout Open data model Copilot

Quick summary PBI_SM_GameOfThrones

94 Count of nobles 98 Count of people 97 Count of name 32 Count of biography

Count of nobles by region_id

region_id	Count of nobles
6	23
1	1
5	5
3	7
2	2
9	7
7	6
4	5
8	2

Count of name

region_id	Count of name
7	6
4	5
8	2

Count of biography by region_id

region_id	Count of biography
1	14
6	9
3	5
9	5
5	3
2	1
4	1
7	1
8	1

Key Highlights from the AutoCreatedReport

- Count of Nobles, People, Name, and Biography:
 - There are **94 nobles** 1.
 - There are **98 people** 2.
 - There are **97 names** 3.
 - There are **32 biographies** 4.
- Counts by Region:
 - Highest Count of Nobles:** Region 6 with 23 nobles (24.47% of total) 5.
 - Lowest Count of Nobles:** Region 8 with 2 nobles 5.
 - Highest Count of People:** Region 6 with 23 people 5.

Created with AI. Inaccuracies are possible. [Read terms](#)

Create a narrative with Copilot

Describe the summary you want and the visuals it should reference. AI-generated content can contain mistakes, so review your summary carefully. [Read terms](#)

Give an executive summary Answer likely questions from leadership

Create a bulleted list of insights

Summarize the data.

19/1000

Reference visuals Current page Update

At 23, 6 had the highest Count of nobles and was 1,050.00% higher than 8, which had the lowest Count of nobles at 2.

6 accounted for 24.47% of Count of nobles.


Across all 9 region_id, Count of nobles ranged from 2 to 23.

Enhance Q&A: Add Synonyms*

The screenshot displays the Microsoft Power BI Desktop interface. At the top, the ribbon is set to 'Data / Drill', showing various options like 'Get data', 'Excel', 'OneLake', 'SQL Server', 'Enter data', 'Dataverse', 'Recent sources', 'Transform data', 'Refresh data', 'New visual', 'Text box', 'More visuals', 'New visual calculation', 'New measure', 'Quick measure', 'Sensitivity', 'Publish', and 'Copilot'. A 'Share' button is visible in the top right corner.

In the center, a Copilot chat window is open. It features a dark header with the text: 'Improve Q&A with synonyms from Copilot (preview) and your org. Content created by AI may not be accurate, so review it carefully. [Read terms](#)'. Below this is a text input field with the placeholder 'Ask a question about your data' and a green 'Add synonyms' button. Underneath, it says 'Try one of these to get started' and provides two buttons: 'show channels' and 'number of channels'. At the bottom of the chat window is a link that says 'Show all suggestions'.

On the right side of the interface, the 'Visualizations' pane is active, showing a grid of visualization icons. Below the grid, there are settings for 'Drill through', including 'Cross-report' (set to Off) and 'Keep all filters' (set to On). At the bottom of the pane is a dashed box labeled 'Add drill-through fields here'. To the right of the visualizations is the 'Data' pane, which contains a search bar and a list of data categories: Calendar, Channel, Geography, Product, ProductCategory, ProductSubcategory, Promotion, Sales, and Stores.



Q & A

Share **your thoughts** and help our speakers!



fabfeb.app/feedback

