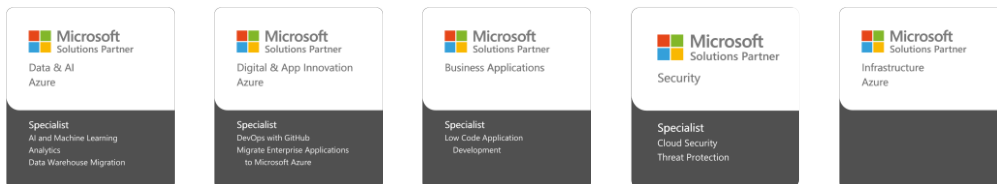


Gen AI in Microsoft Fabric

MAQ Software

May 29, 2024



Microsoft Power BI
Partner of the Year 2021

 snowflake®
Technology Partner

 databricks
Technology Partner



Inc. 5000

Agenda: End to End Gen AI Capabilities in Fabric

1. Fabric and Copilot Overview (15 mins)
2. Copilot for Power BI: Development and Insights Generation (15-20 mins)
3. Chat with your data in Fabric: Intuitive data exploration using AI Skill and Notebook(10 mins)
4. Copilot in Dataflow Gen2: Optimize data ingestion and transformation (10 mins)
5. Copilot in Notebook: Deeper data analysis and insights extraction (10 mins)
6. Copilot in Real Time Insights Reporting (5 mins)
7. Next Steps Q&A

Microsoft Fabric High Level Overview



Data
Factory



Data
Engineering



Data
Warehouse



Data
Science



Real-Time
Intelligence



Power BI



Partner &
Industry
workloads



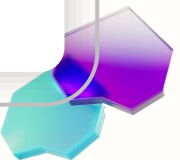
Copilot in Fabric



OneLake



Microsoft Purview



How can you empower your data teams with Gen AI?



Accelerating Productivity with Copilot in Fabric

Stay focused on unlocking value
from your data with built-in
generative AI experiences



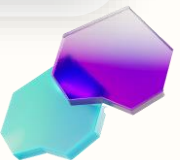
AI skills

Create Q&A experiences on your
data to quickly explore your data



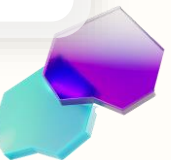
Generative AI on Your Data

Create custom generative
AI experiences, grounded
on your data

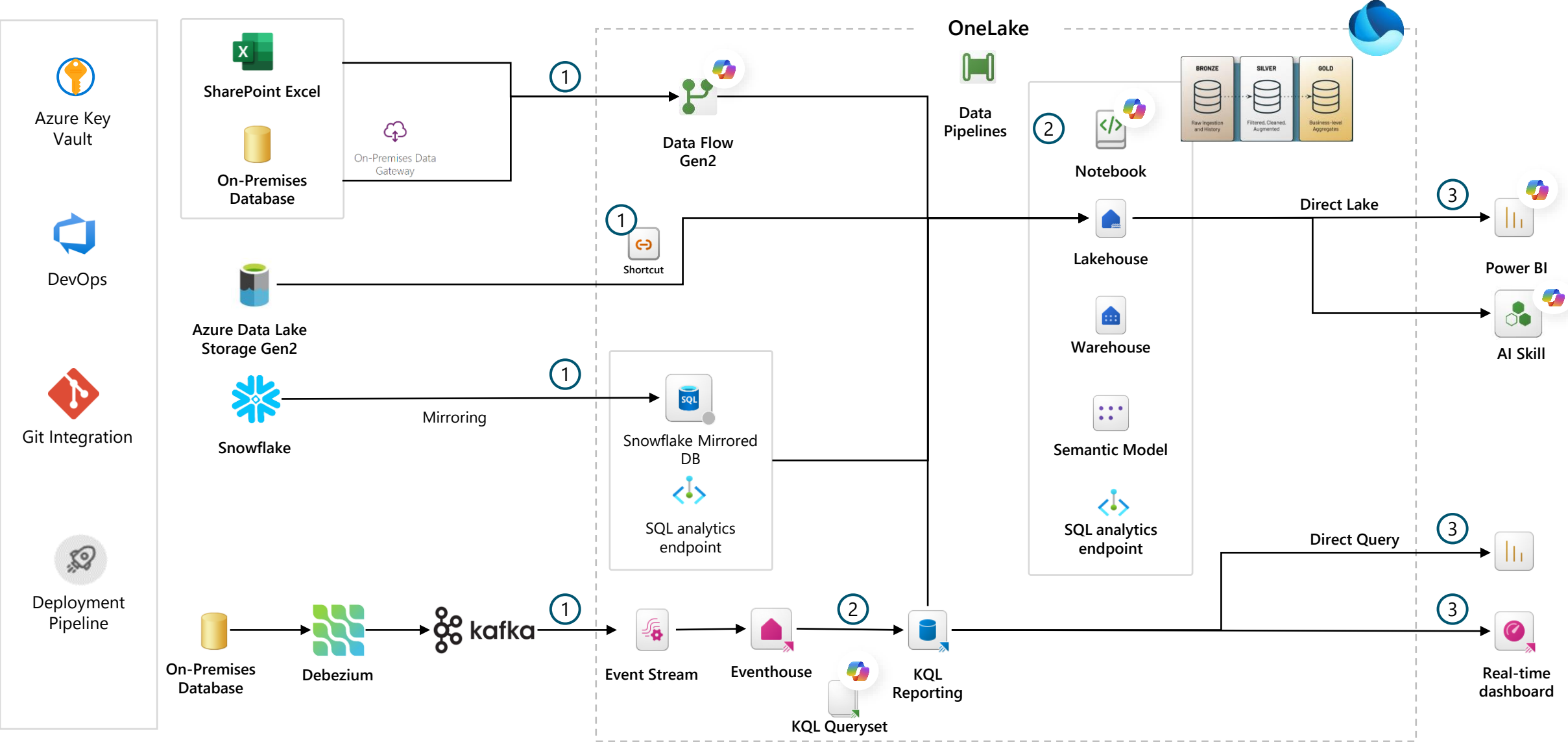


Enabling Copilot in Fabric

1. Your administrator needs to enable the tenant switch before you can start using Copilot. Administrators can read the article [Copilot tenant settings](#) for details.
2. Your F64 or P1 capacity needs to be in one of the regions listed in this article, [Fabric region availability](#).
3. If your tenant or capacity is outside the US or France, Copilot is disabled by default unless your Fabric tenant admin enables the [Data sent to Azure OpenAI can be processed outside your tenant's geographic region, compliance boundary, or national cloud instance](#) tenant setting in the Fabric Admin portal.
4. Copilot in Microsoft Fabric isn't supported on trial SKUs. Only paid SKUs (F64 or higher, or P1 or higher) are supported.

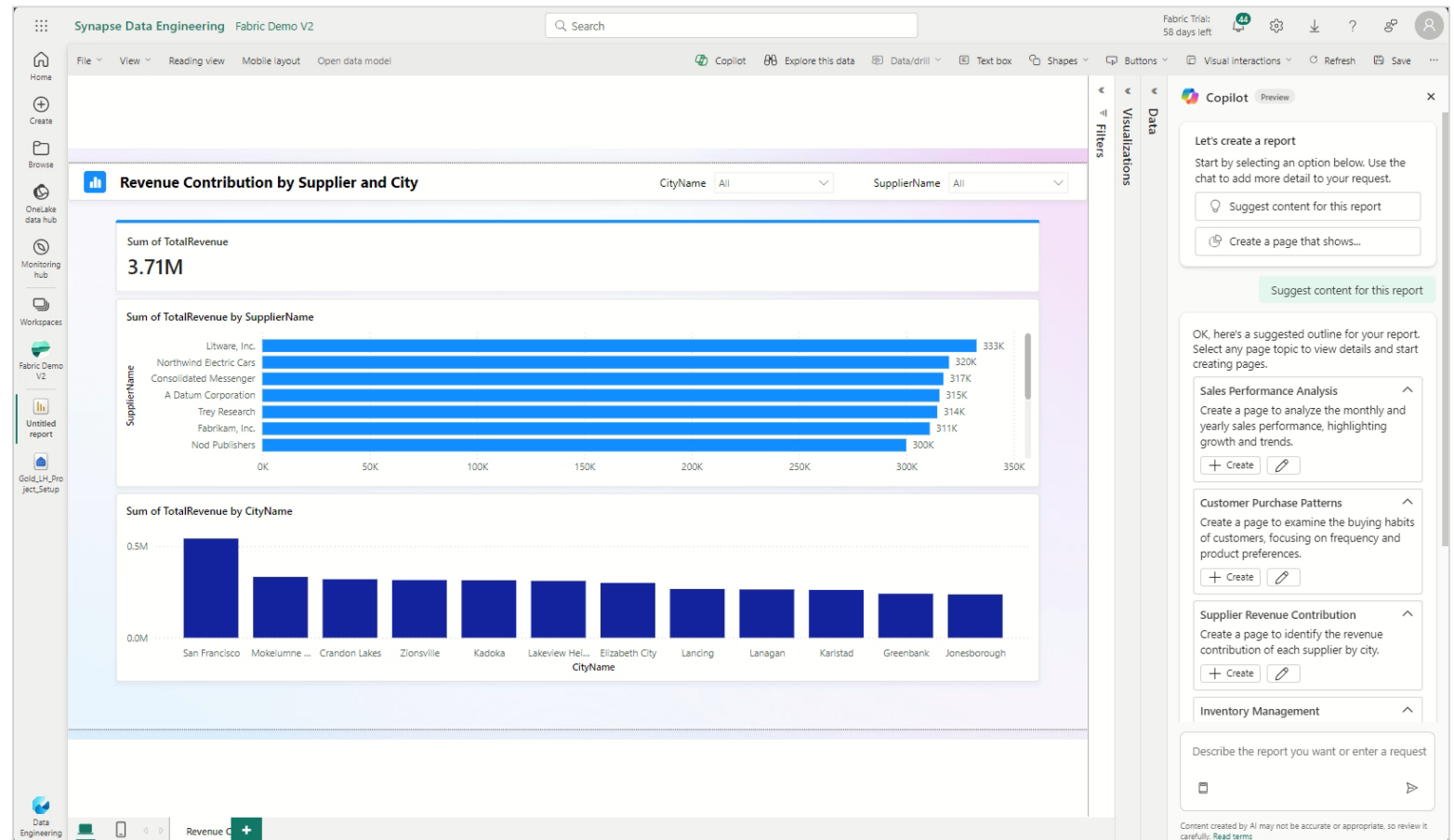


Architecture



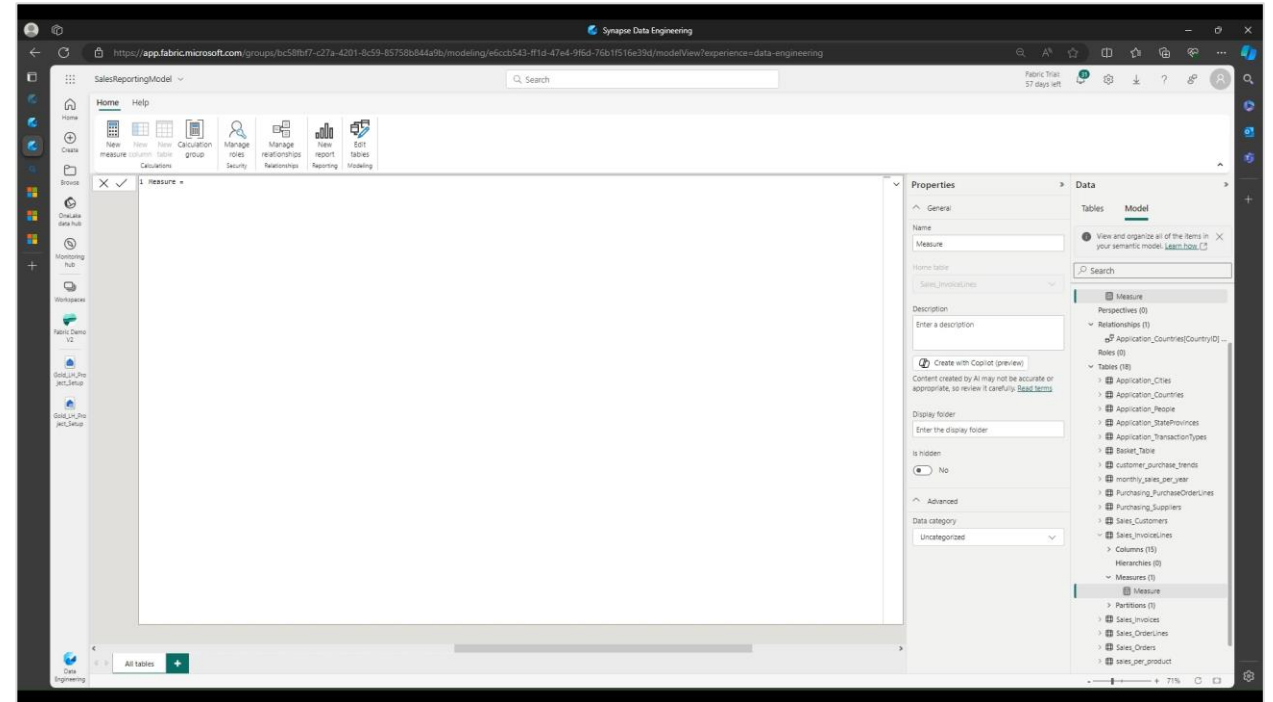
Insights Generation – Copilot for Reporting

1. Generate insightful reports by chatting with Copilot.
2. Find and summarize insights in data.



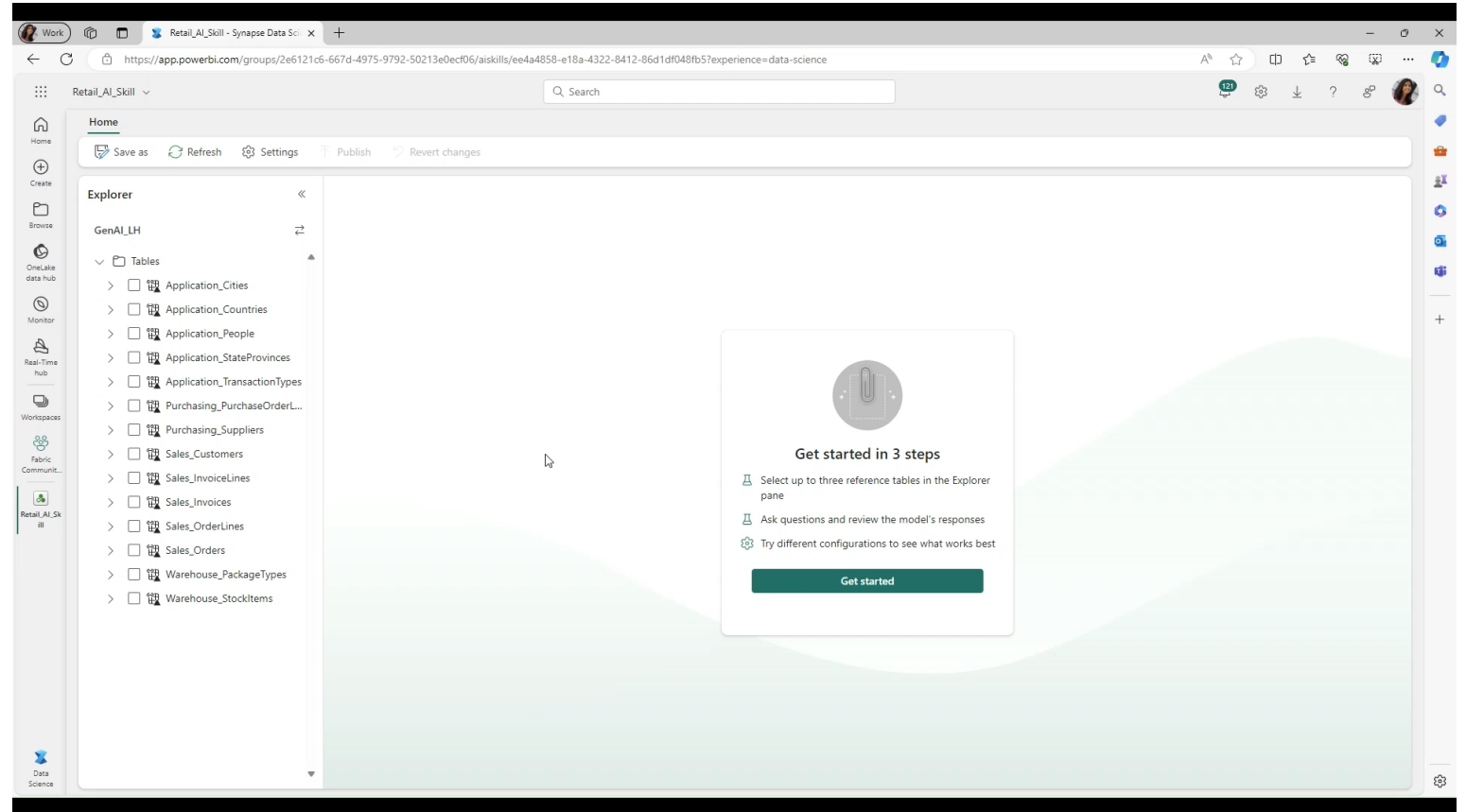
Report Development – Copilot for Power BI Desktop

1. Generate insightful report pages and quickly reducing development effort.
2. Chat with Copilot to generate DAX for data analysis empowering the entire organization to understand and analyze data.
3. Business users can create relevant new measures in the model using Copilot without technical training.
4. Update synonyms for your models using Copilot to enable faster natural language querying.



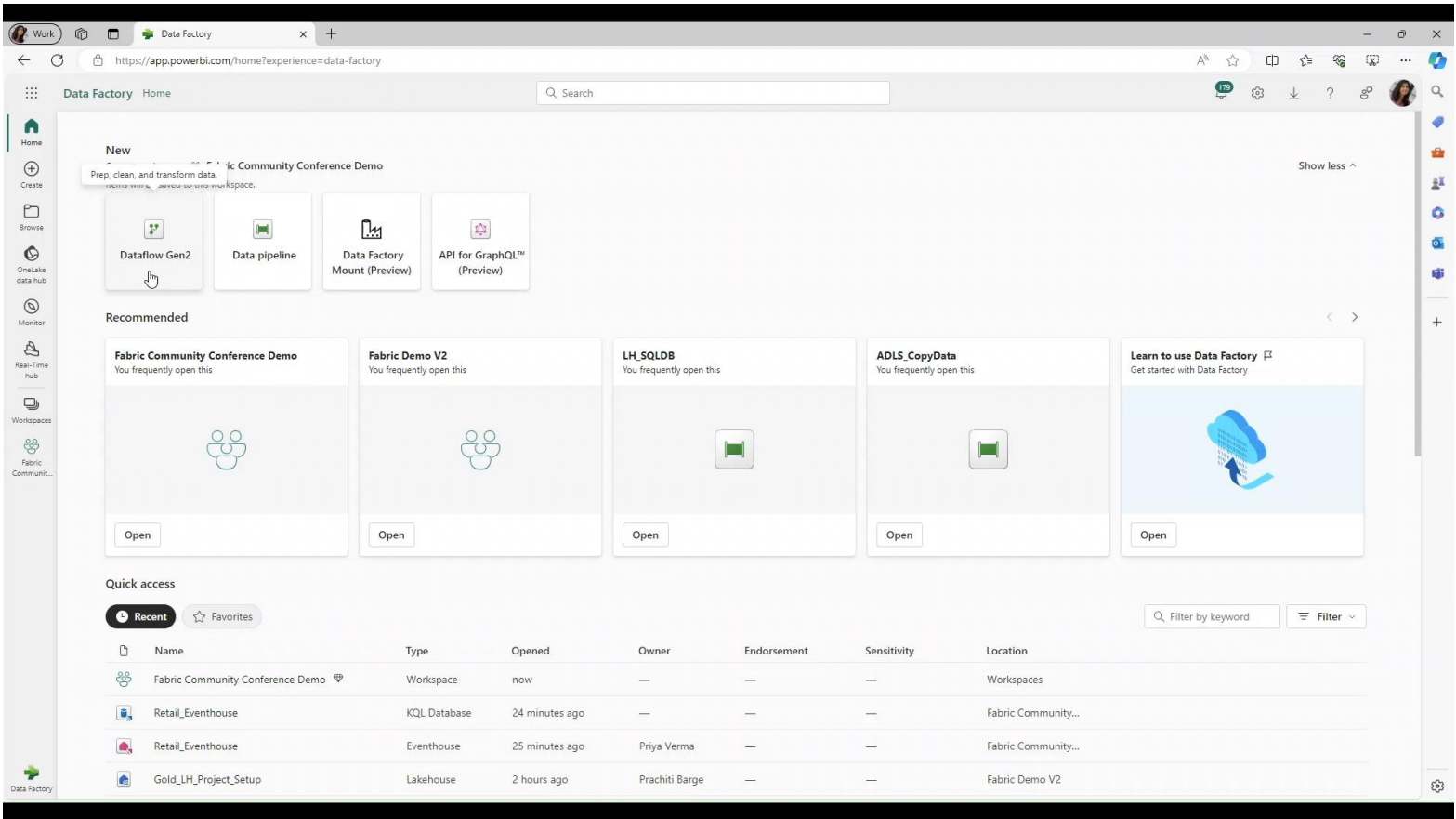
AI Skills

1. Gen AI experience to users and allows to engage in conversation over data
2. Generate T-SQL queries on attached sources.



Data Ingestion and Transformation – Copilot in Dataflow Gen2

Ingest data in Dataflow Gen2 using On-premises data gateway.



Data Ingestion and Transformation – Copilot in Dataflow Gen2

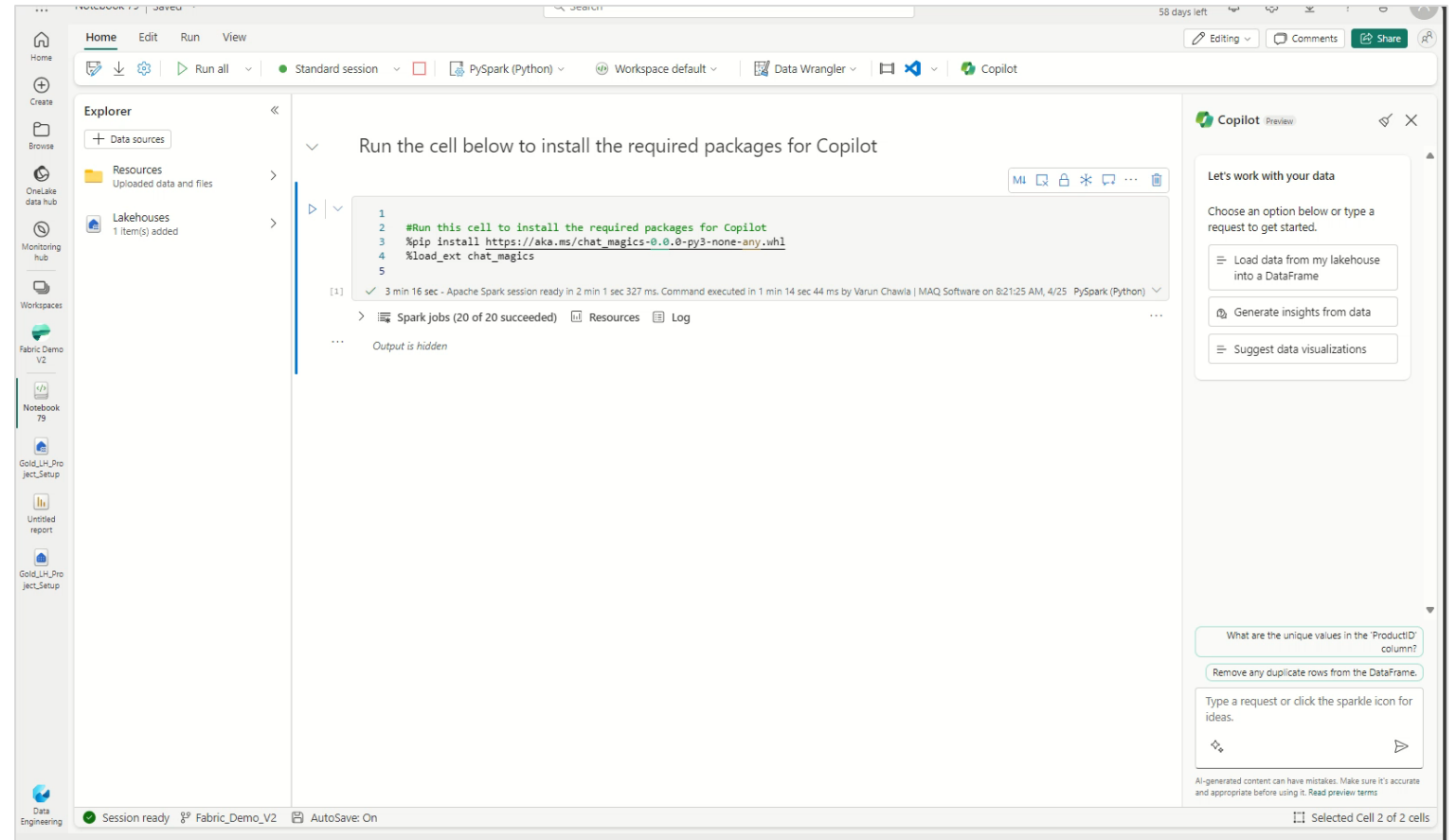
Chat with Copilot to describe data transformations in natural language.

The screenshot displays the Microsoft Power BI Dataflow Gen2 interface. The top navigation bar includes 'Work', 'Power BI', and a search bar. The left sidebar shows 'Copilot_Dataflow' and 'Power Query'. The central area displays a data table with 28 rows and 21 columns. The table columns are: PersonID, Fullname, PreferredName, SearchName, IsPermittedToLog..., LoginName, IsExternalLoginProvider, HashedPassw..., IsSystemUser, and IsE... The table data includes names like Kayla Woodcock, Hudson Onslow, Isabella Rupp, Eva Mulrden, Sophia Hinton, Amy Trefl, Anthony Grosse, Alica Fatnowna, Stella Rosenhain, Ethan Onslow, Henry Forlonge, Hudson Hollinworth, Lily Code, Tai Shand, Archer Lambie, Piper Koch, Katie Darwin, Jai Shand, Jack Potter, Reio Kabin, Oliver Kivi, Hanna Mihailov, Paulus Uppmaa, Kerstin Pam, Heien Ahven, Bill Lawson, and Heien Moore. The right sidebar shows 'Query settings' with 'Properties' and 'Applied steps'.

PersonID	Fullname	PreferredName	SearchName	IsPermittedToLog...	LoginName	IsExternalLoginProvider	HashedPassw...	IsSystemUser	IsE...
1	Data Conversion Only	Data Conversion Only	Data Conversion Only	FALSE	NO LOGON	FALSE	null	FALSE	FALT
2	Kayla Woodcock	Kayla	Kayla Kayla Woodcock	TRUE	kaylaw@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
3	Hudson Onslow	Hudson	Hudson Hudson Onslow	TRUE	hudsono@wideworldimporters.c...	FALSE	[Binary]	TRUE	TRU
4	Isabella Rupp	Isabella	Isabella Isabella Rupp	TRUE	isabellar@wideworldimporters.co...	FALSE	[Binary]	TRUE	TRU
5	Eva Mulrden	Eva	Eva Eva Mulrden	FALSE	evam@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
6	Sophia Hinton	Sophia	Sophia Sophia Hinton	TRUE	sophiah@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
7	Amy Trefl	Amy	Amy Amy Trefl	TRUE	amyt@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
8	Anthony Grosse	Anthony	Anthony Anthony Grosse	TRUE	anthonyg@wideworldimporters.c...	FALSE	[Binary]	TRUE	TRU
9	Alica Fatnowna	Alica	Alica Alica Fatnowna	TRUE	alica@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
10	Stella Rosenhain	Stella	Stella Stella Rosenhain	TRUE	stellar@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
11	Ethan Onslow	Ethan	Ethan Ethan Onslow	TRUE	ethano@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
12	Henry Forlonge	Henry	Henry Henry Forlonge	TRUE	henryf@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
13	Hudson Hollinworth	Hudson	Hudson Hudson Hollinworth	TRUE	hudsonh@wideworldimporters.c...	FALSE	[Binary]	TRUE	TRU
14	Lily Code	Lily	Lily Lily Code	TRUE	lilyc@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
15	Tai Shand	Tai	Tai Tai Shand	TRUE	tajis@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
16	Archer Lambie	Archer	Archer Archer Lambie	FALSE	archer@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
17	Piper Koch	Piper	Piper Piper Koch	TRUE	piperk@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
18	Katie Darwin	Katie	Katie Katie Darwin	TRUE	kated@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
19	Jai Shand	Jai	Jai Jai Shand	TRUE	jais@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
20	Jack Potter	Jack	Jack Jack Potter	TRUE	jackp@wideworldimporters.com	FALSE	[Binary]	TRUE	TRU
21	Reio Kabin	Reio	Reio Reio Kabin	FALSE	NO LOGON	FALSE	null	FALSE	FALT
22	Oliver Kivi	Olly	Olly Oliver Kivi	FALSE	NO LOGON	FALSE	null	FALSE	FALT
23	Hanna Mihailov	Hanna	Hanna Hanna Mihailov	FALSE	NO LOGON	FALSE	null	FALSE	FALT
24	Paulus Uppmaa	Paulus	Paulus Paulus Uppmaa	FALSE	NO LOGON	FALSE	null	FALSE	FALT
25	Kerstin Pam	Kerstin	Kerstin Kerstin Pam	FALSE	NO LOGON	FALSE	null	FALSE	FALT
26	Heien Ahven	Heien	Heien Heien Ahven	FALSE	NO LOGON	FALSE	null	FALSE	FALT
27	Bill Lawson	Bill	Bill Bill Lawson	FALSE	NO LOGON	FALSE	null	TRUE	FALT
28	Heien Moore	Heien	Heien Heien Moore	FALSE	NO LOGON	FALSE	null	TRUE	FALT

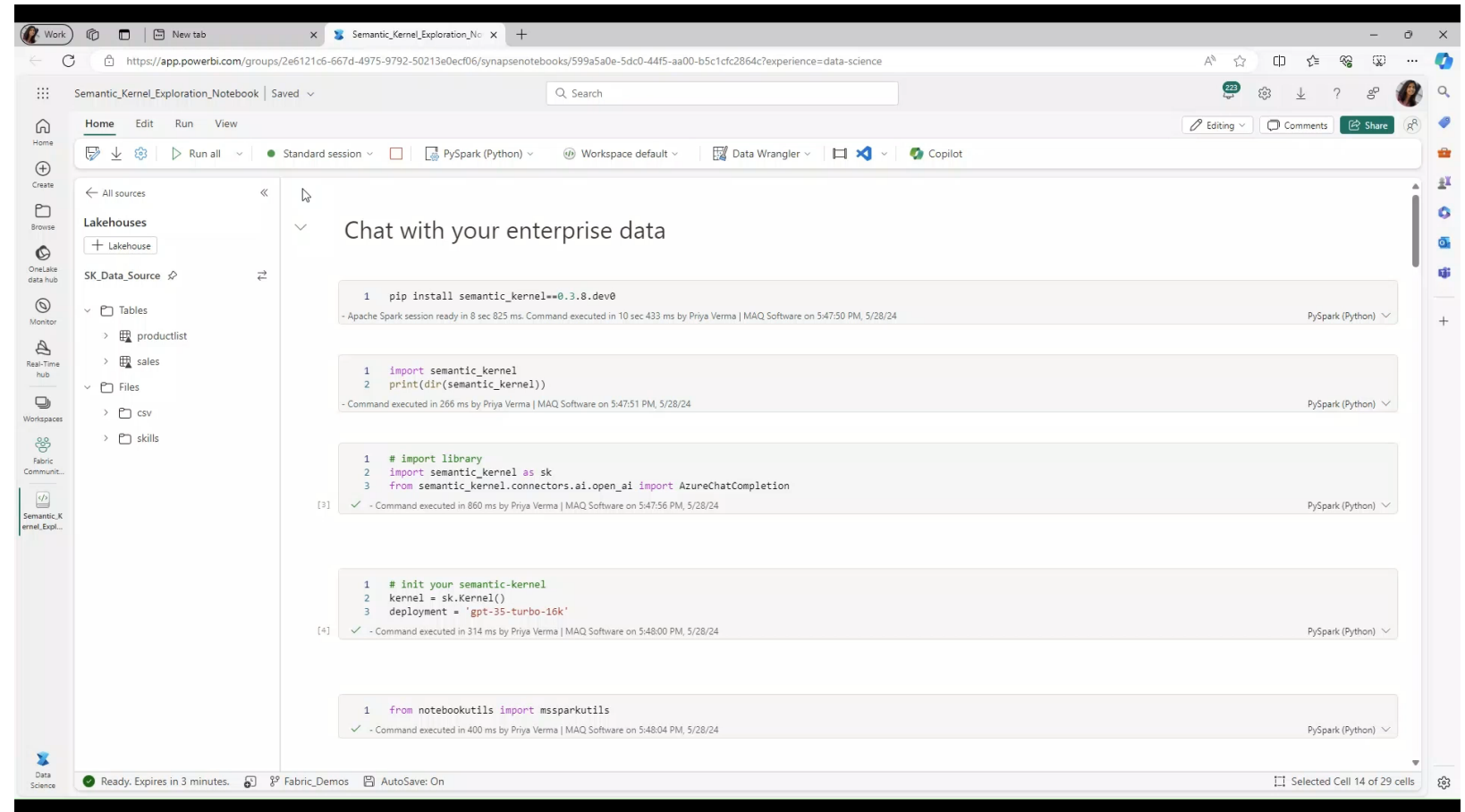
Data Analysis and Understanding – Copilot in Notebook

1. Use natural language to understand and analyze data.
2. Improve developer productivity by using Copilot to generate code.
3. Democratize data by empowering the organization to talk to data.
4. Chat with Copilot to create ML models.



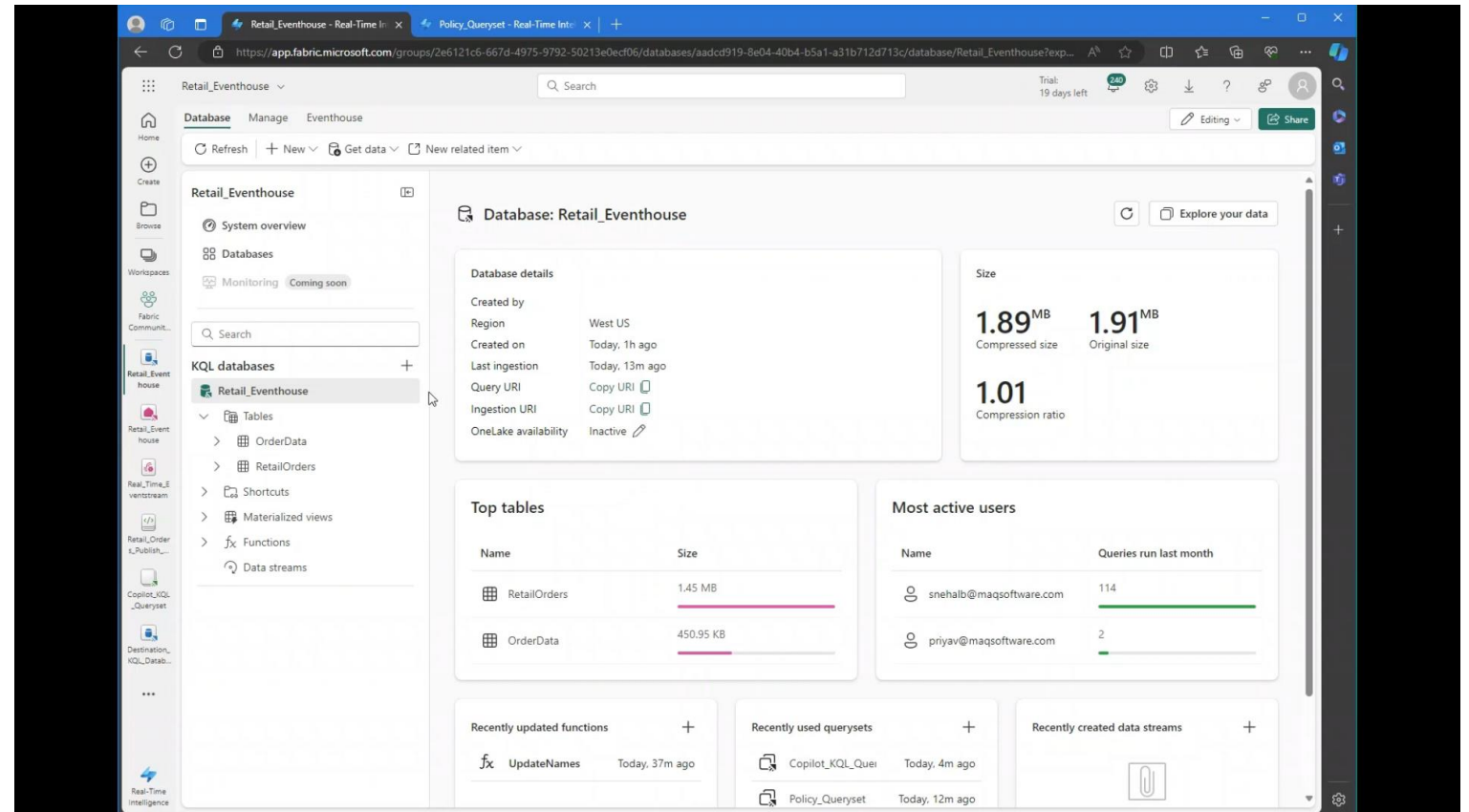
Semantic Kernel

1. Chat with your data to analyze it and generate outcomes.
2. Define queries and code to integrate with your notebooks and pipelines.
3. Use native functions to perform data operations.



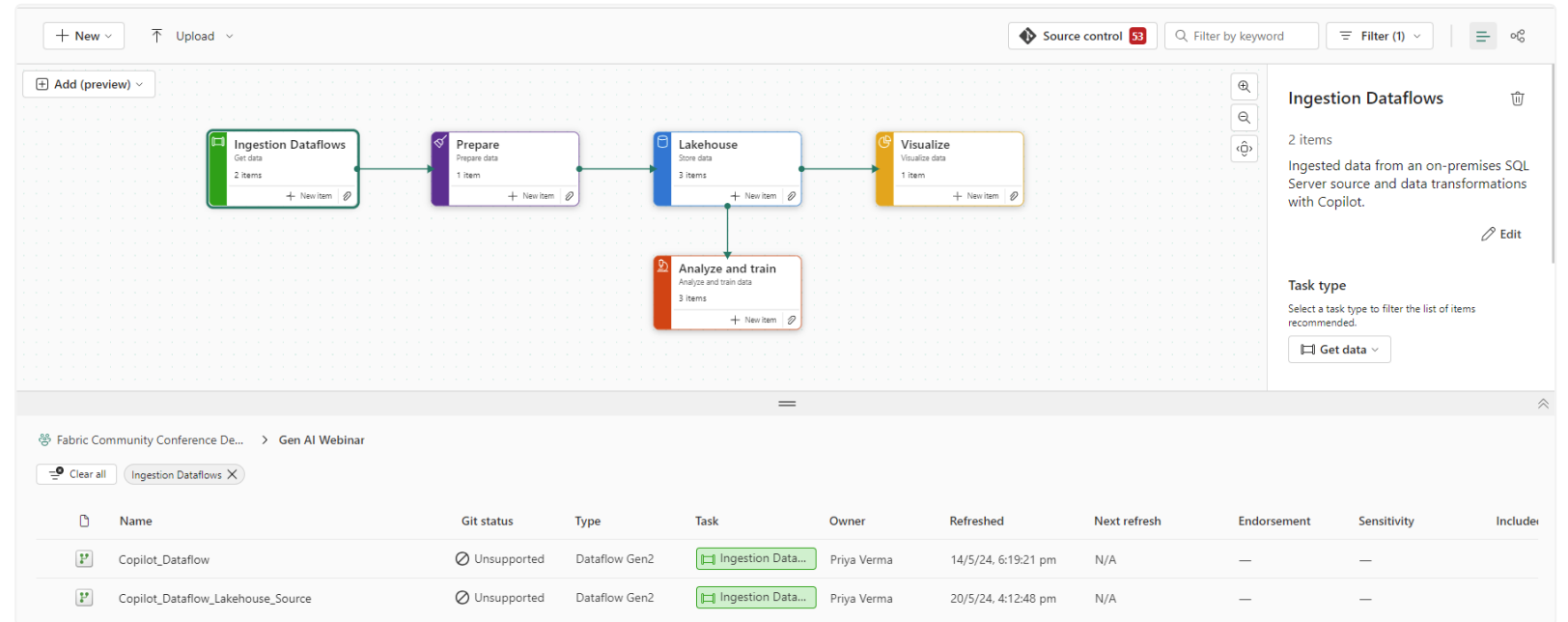
Copilot for Real Time Intelligence

1. Generate KQL queries on streaming data.
2. Analyze and perform transformations on large data. For example, in this demo we have:
 - Split existing columns to create new columns for month and year.
 - Removed trip assigned and trip purged columns.
 - Created a new column to display the month extracted from date columns in words.



Taskflow

1. Design and manage Fabric artifacts within a visual logical structure.
2. Create pre-defined and custom task flows based on scenarios implementation.



Next Steps

If you are looking to understand how to integrate Fabric in your environment, reach out to us at sales@maqsoftware.com or through app source offer.

#	Offerings	Duration
1	Envisioning session	1 day
2	Microsoft Fabric: Accelerated 8-Week Pilot Implementation – Microsoft AppSource	8 weeks

There are two upcoming events planned for the schedule: **Data Science** and **Real-Time**.

Discussion