Gen AI in Microsoft Fabric

MAQ Software

May 29, 2024
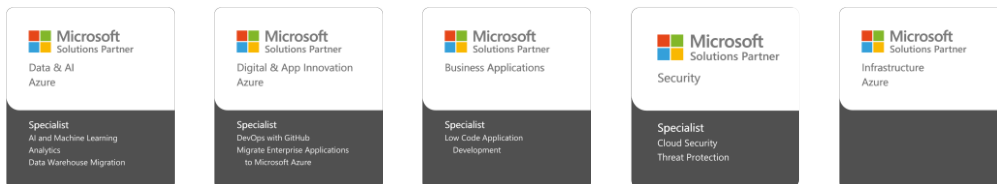
Agenda: End to End Gen AI Capabilities in Fabric

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

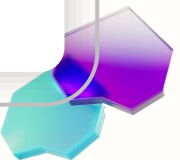| Data Factory	Data Engineering	Data Warehouse	Data Science	Real-Time Intelligence	Power BI	Partner & Industry workloads

Copilot in Fabric

OneLake

Microsoft Purview

How can you empower your data teams with Gen AI?

Accelerating Productivity with Copilot in Fabric

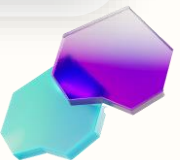Stay focused on unlocking value from your data with built-in generative AI experiences

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 <u>Copilot tenant settings</u> for details.

2. Your F64 or P1 capacity needs to be in one of the regions listed in this article, <u>Fabric region availability</u>.

3. If your tenant or capacity is outside the US or France, Copilot is disabled by default unless your Fabric tenant admin enables the <u>Data sent to Azure OpenAI can be processed outside your tenant's geographic region, compliance boundary, or national cloud instance</u> 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.
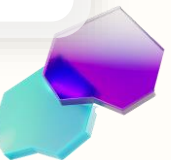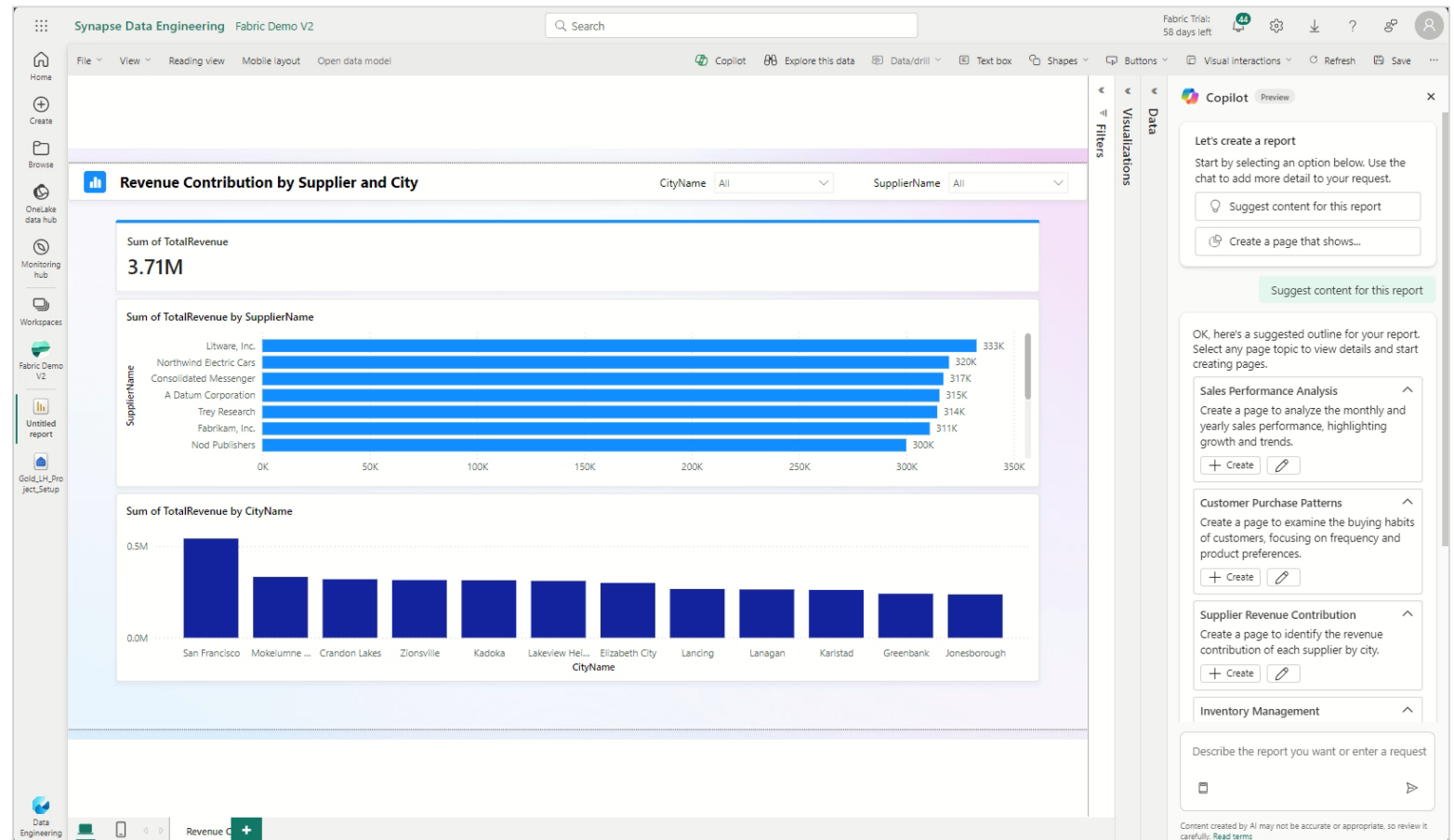
Architecture
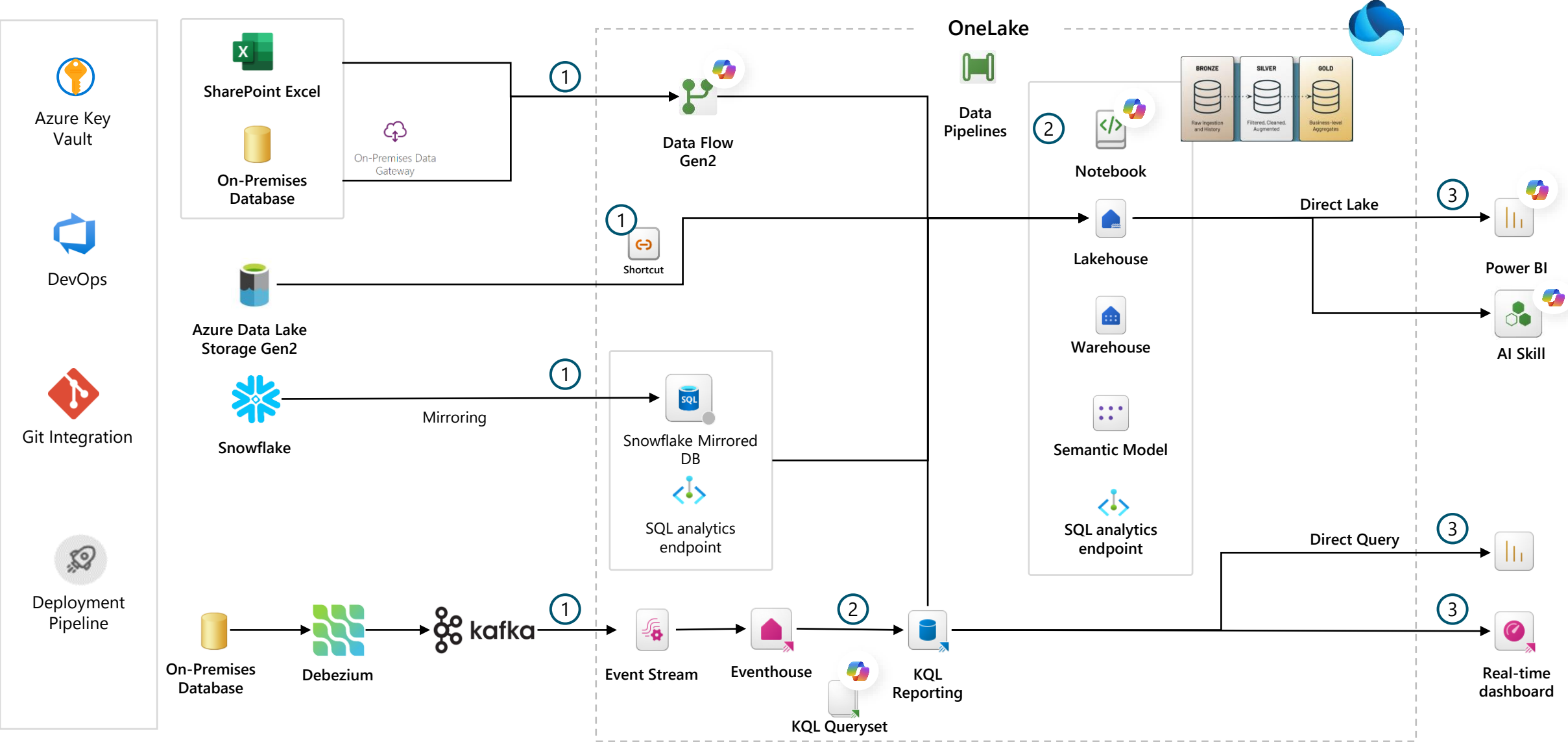
Insights Generation – Copilot for Reporting

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.
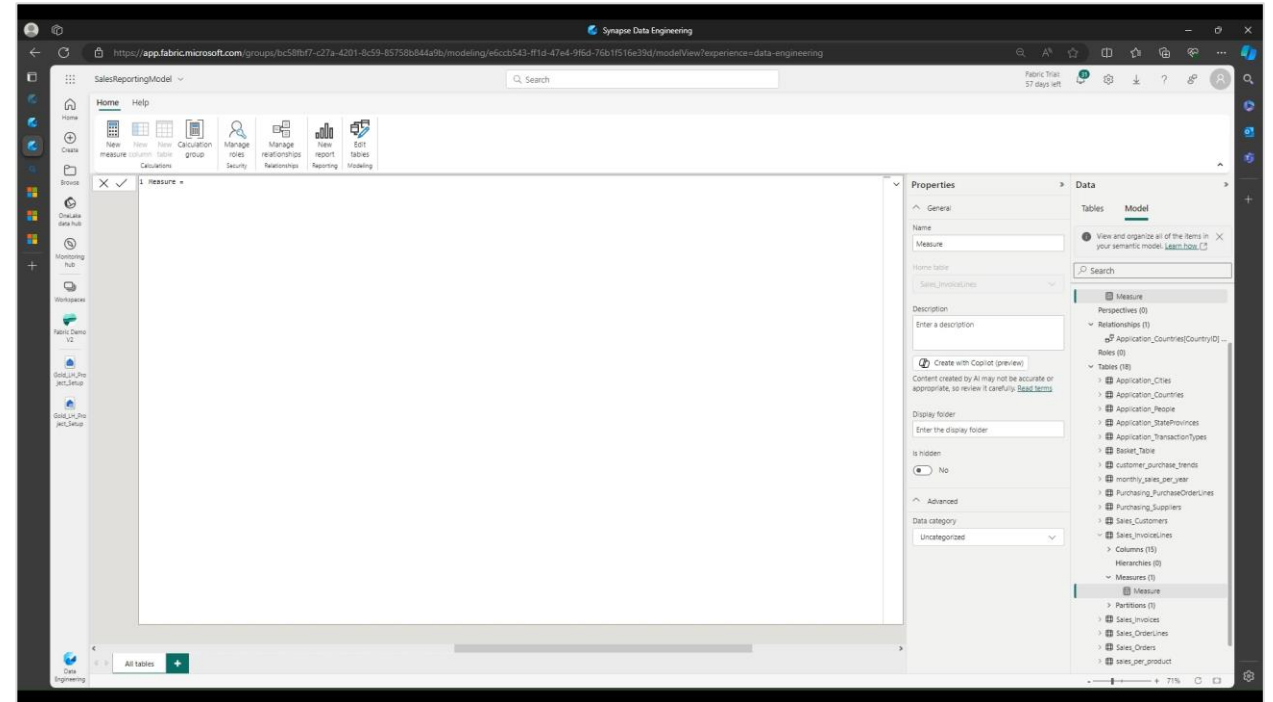
AI Skills

1. Gen AI experience to users and allows to engage in conversation over data

2. Generate T-SQL queries on attached sources.
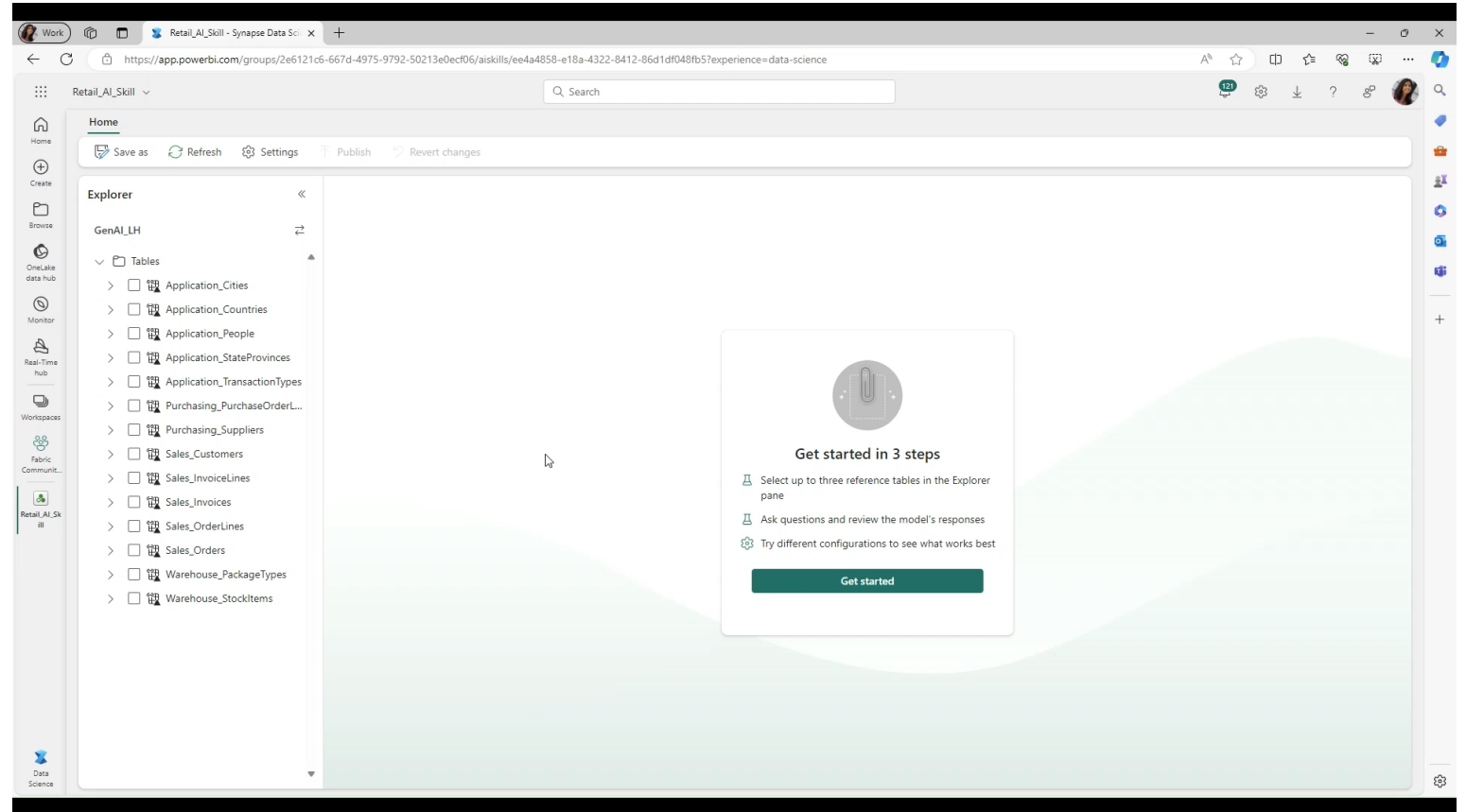
Data Ingestion and Transformation – Copilot in Dataflow Gen2

Ingest data in Dataflow Gen2 using On-premises data gateway.
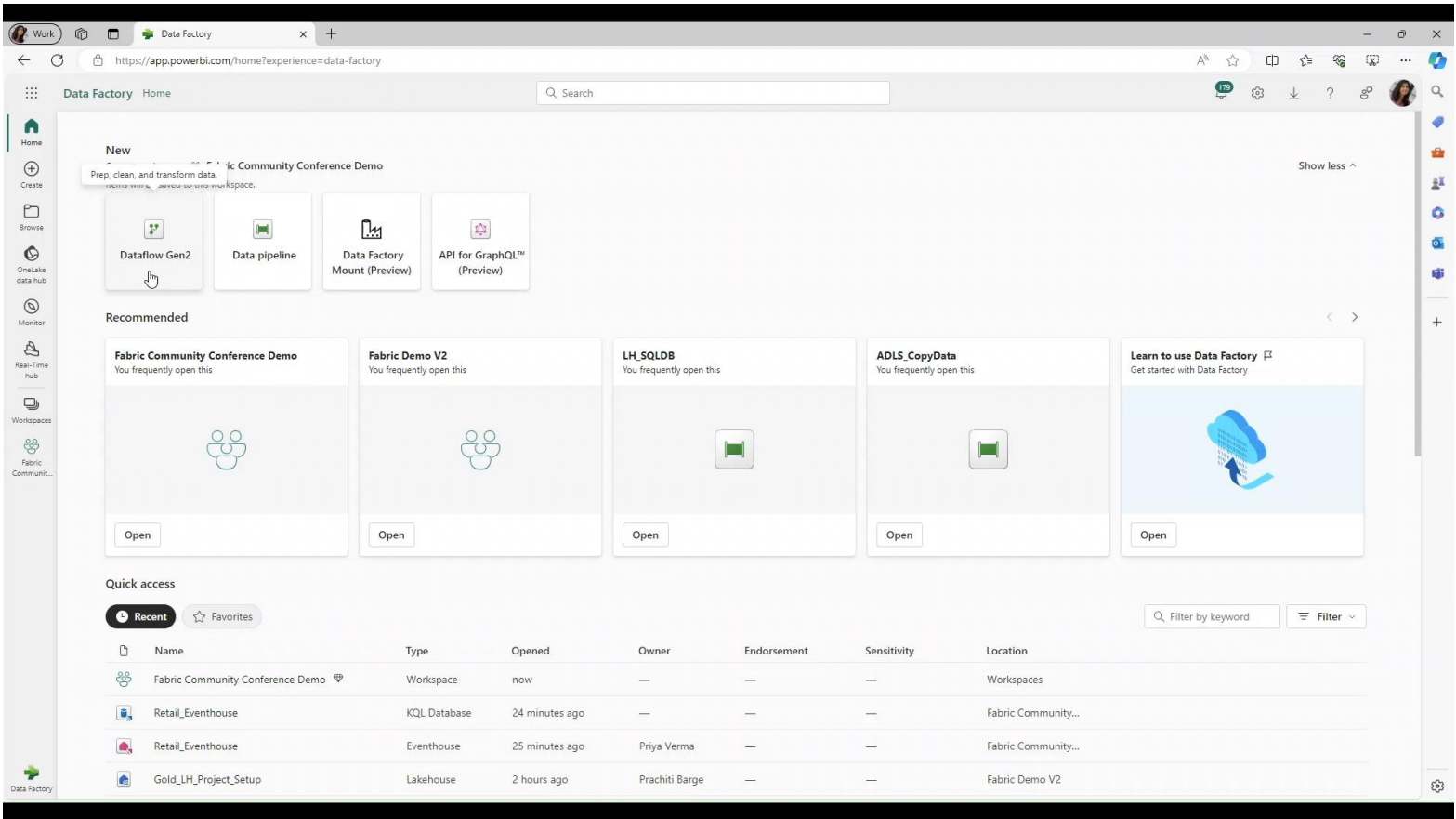
Data Ingestion and Transformation – Copilot in Dataflow Gen2

Chat with Copilot to describe data transformations in natural language.

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.
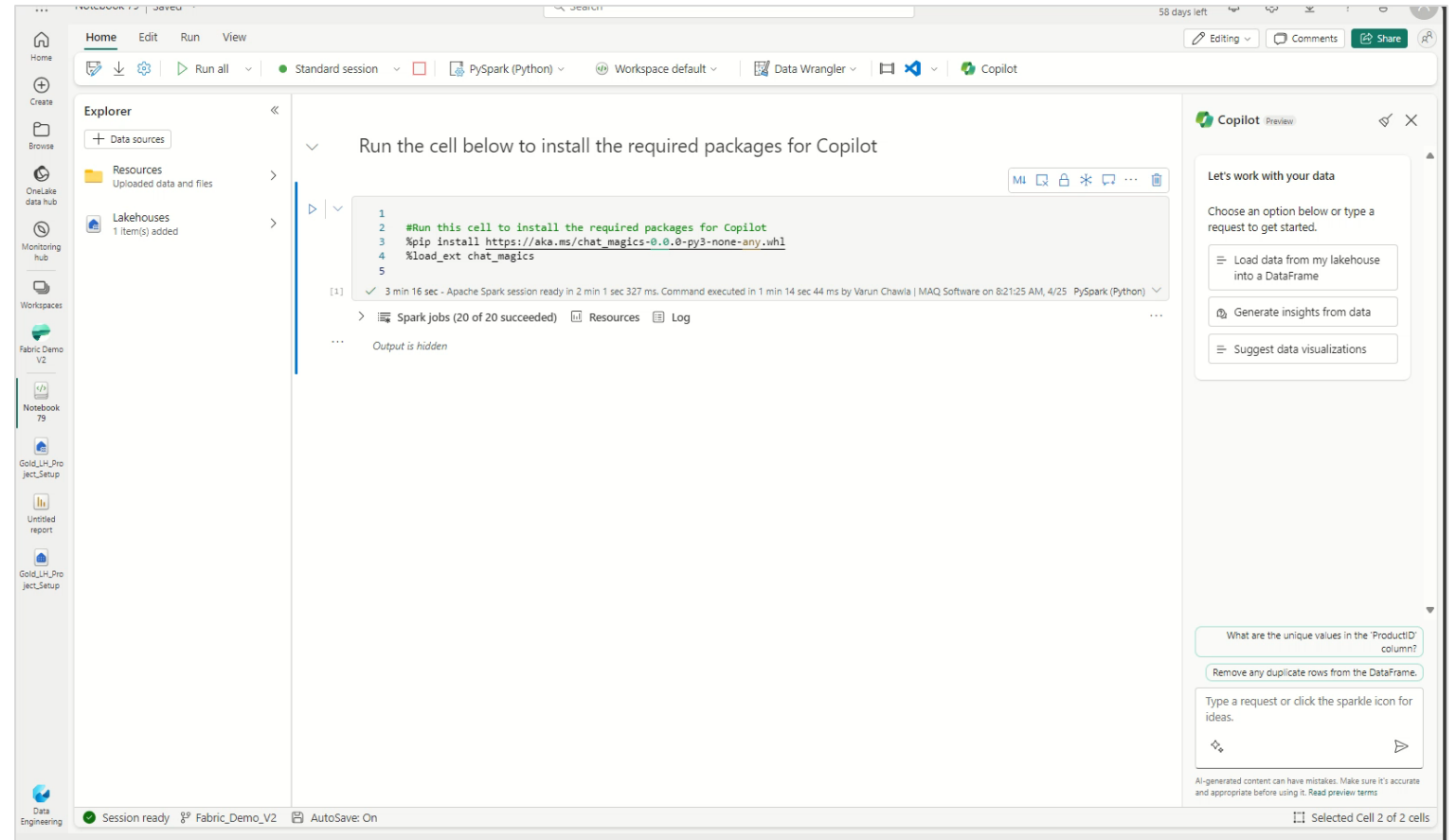
Semantic Kernel

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.
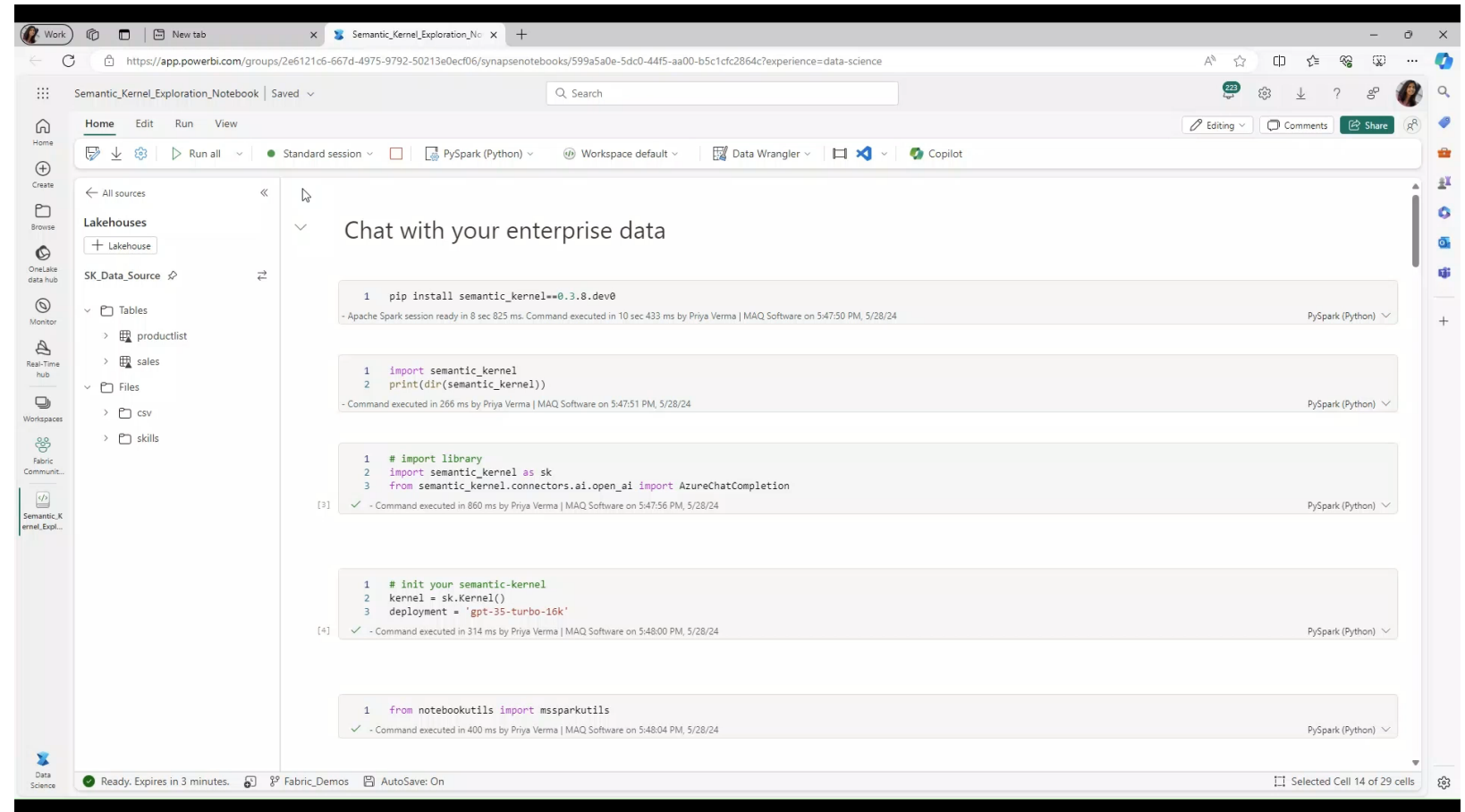
Copilot for Real Time Intelligence

1. Generate KQL queries on streaming data.

2. Analyze and perform transformations on large data. For example, in this demo we have:
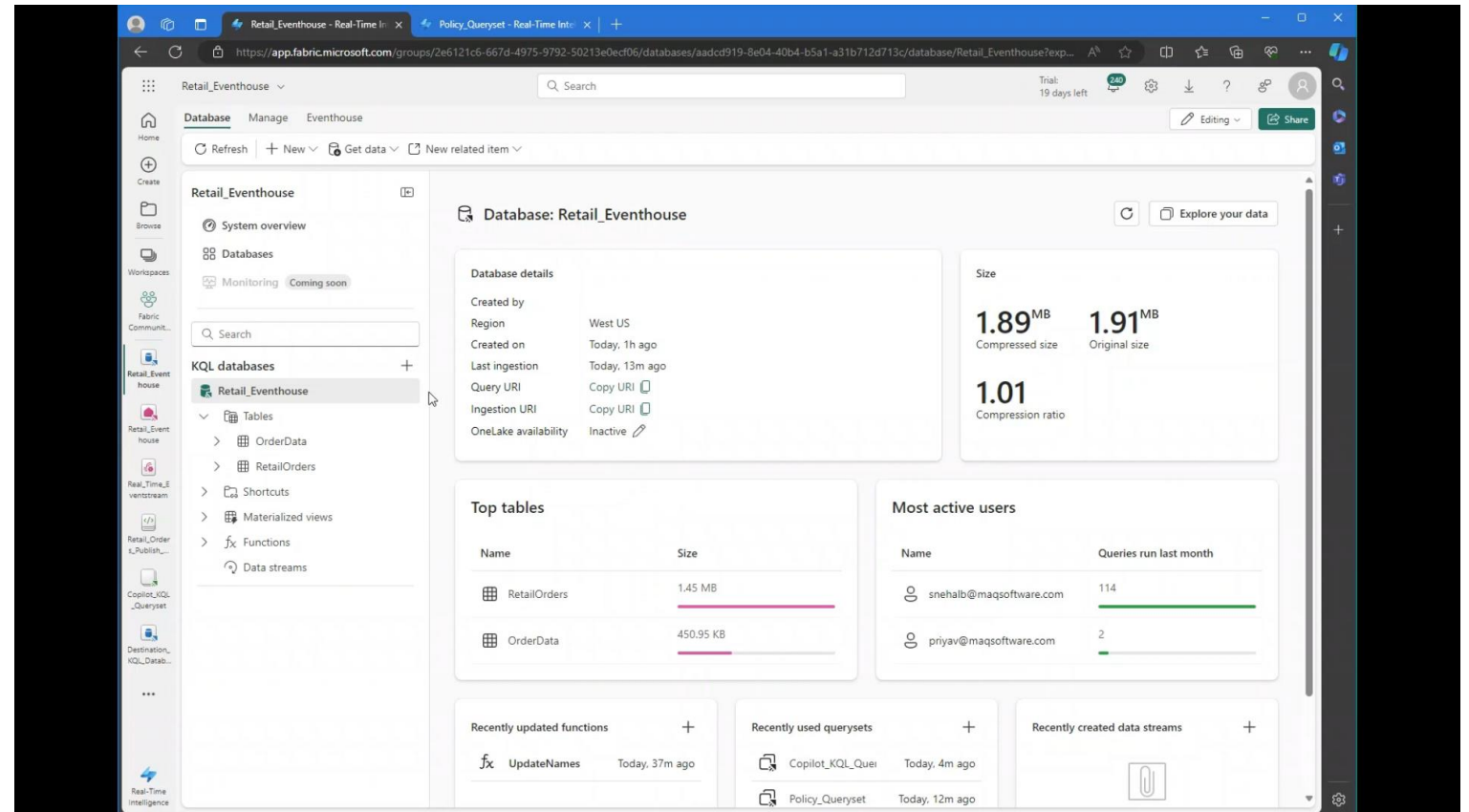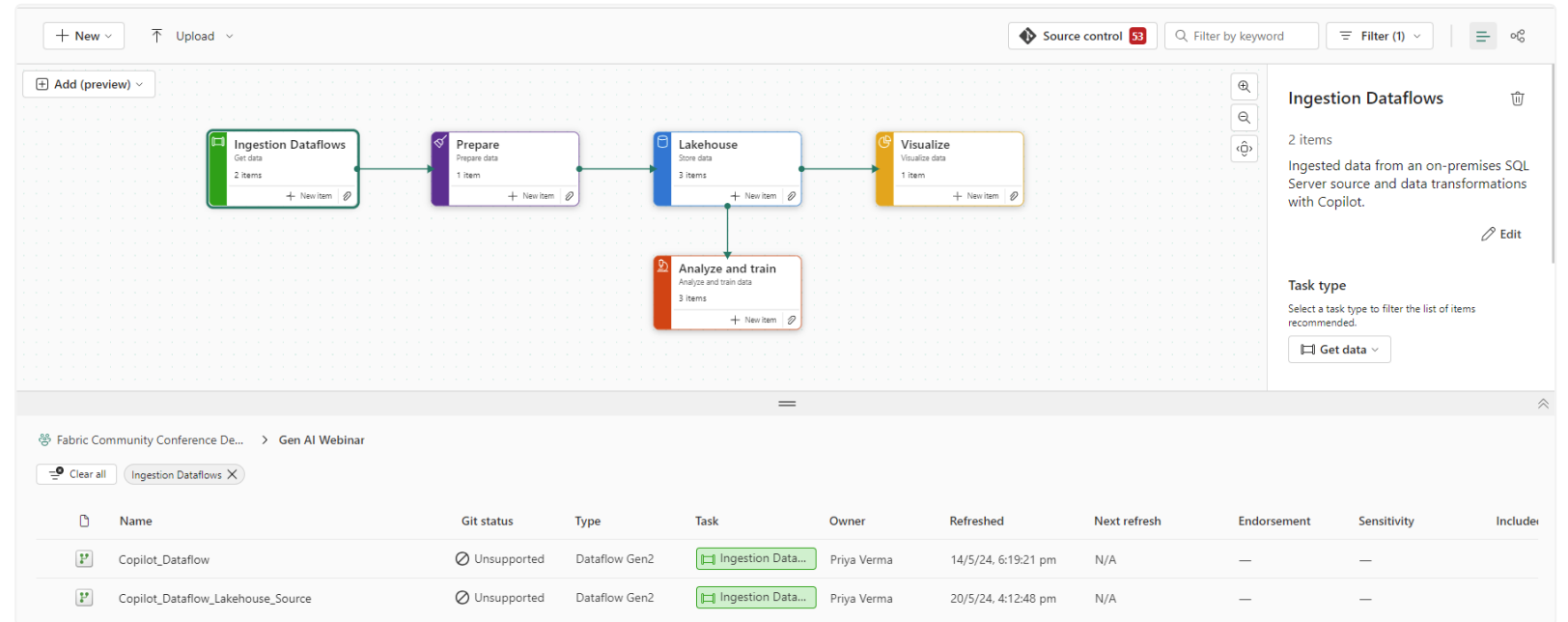
   - Split existing columns to create new columns for month and year.

   - 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