BUSINESS TECHNOLOGY SUMMIT 2024

Zero to Fabric in 45: Everything You Need to Know About Microsoft Fabric and AI

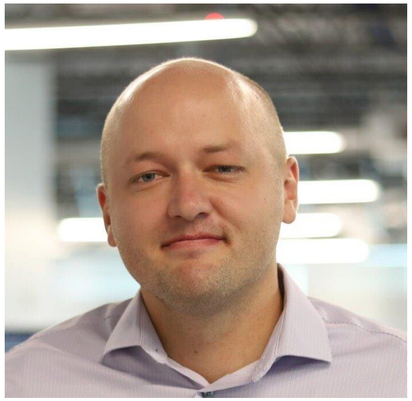
Housekeeping

- Please silence your phones. If you need to take a call, feel free to step outside and come back in.
- Sessions are being recorded and will be available after.
- Please use this QR code to take the session survey before heading to the next session.
- Survey responses get you more entries into the raffle at the end of the day. (prizes included surface headphones, Smart Ray Bans, RayBan Meta Smart Bluetooth Glasses, and lots more).
- Wifi Info: BusinessTechnologySummit

Password: journeyteam!

Presenters

BRAD SODERMAN
DATA ENGINEER



CONNOR MERKLEY
DATA ENGINEER

BUSINESS TECHNOLOGY SUMMIT 2024

What is Fabric?

One Data Tool to rule them all!

Microsoft Fabric: What is it?

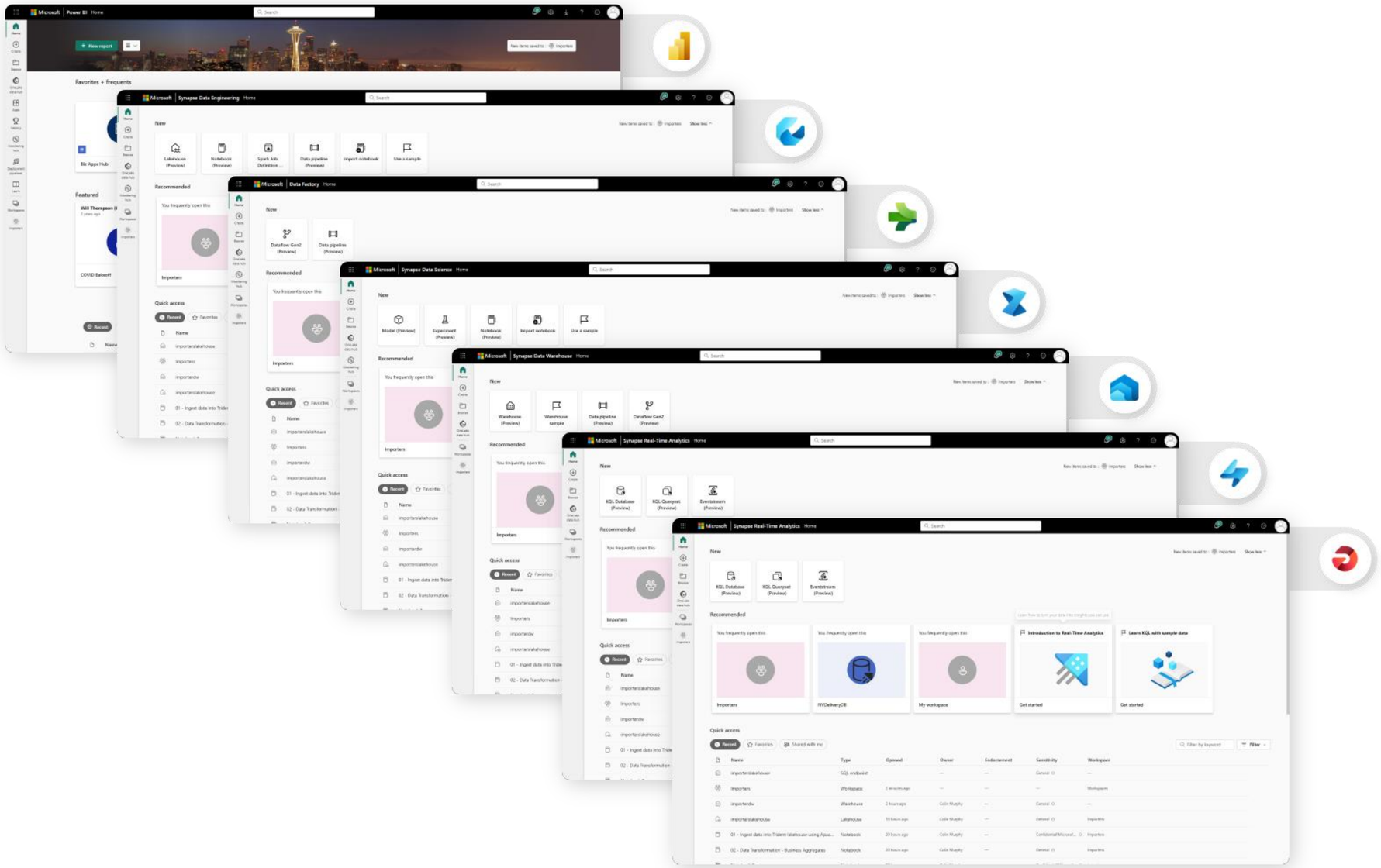
OneLake | Data Factory | Synapse Data Engineering | Synapse Data Warehouse | Synapse Data Science | Synapse Real-Time Analytics | Power BI | Data Activator

Lake-centric and open | Role-specific tools | Empower every Microsoft 365 user | Persistent governance and security

Single...

- Onboarding and trials
- Sign-on
- Navigation model
- UX model
- Workspace organization
- Collaboration experience
- Data Lake
- Storage format
- Data copy for all engines
- Security model
- CI/CD
- Monitoring hub
- Data Hub
- Governance & compliance

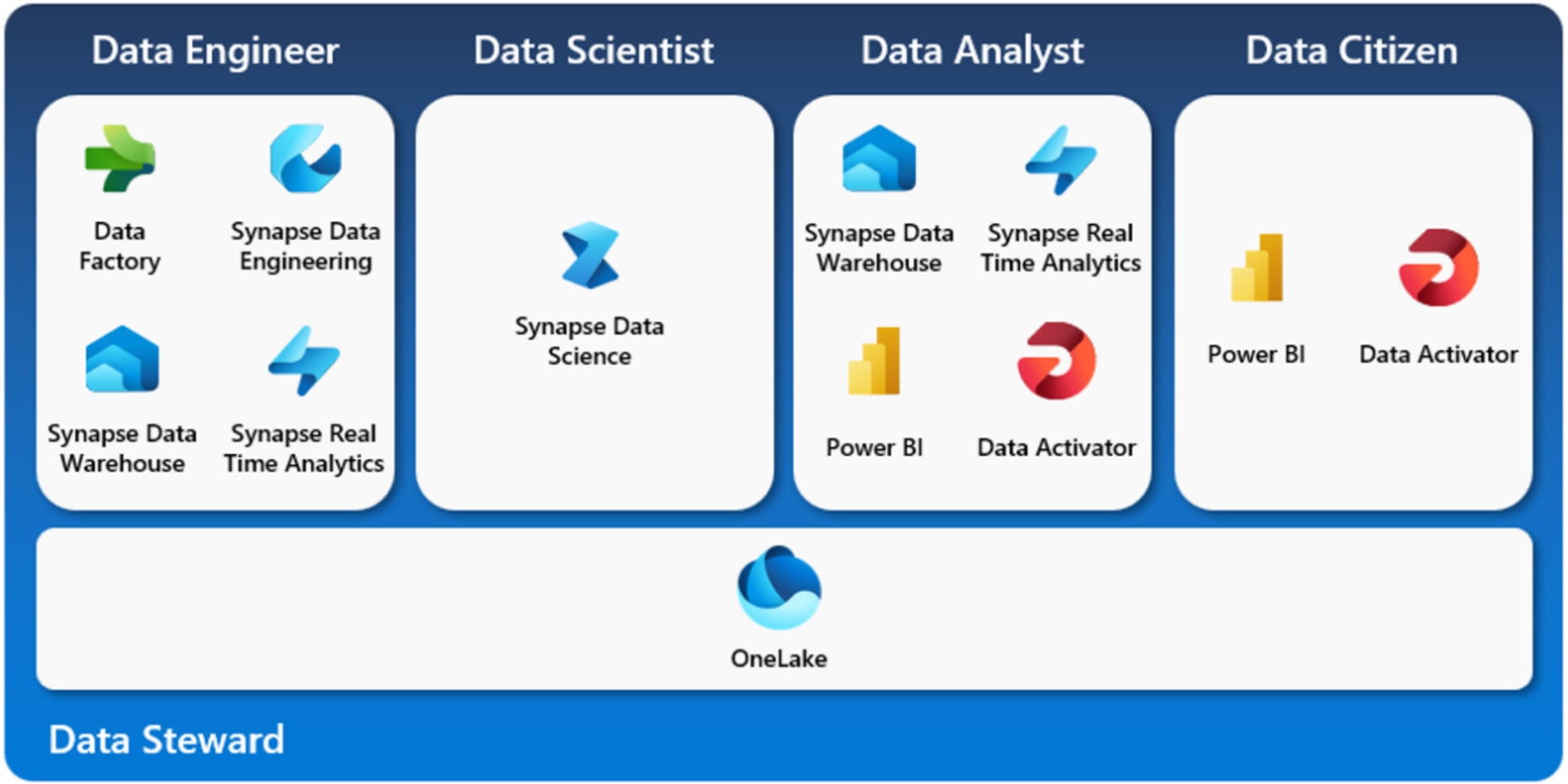
Multiple Personas: One Experience

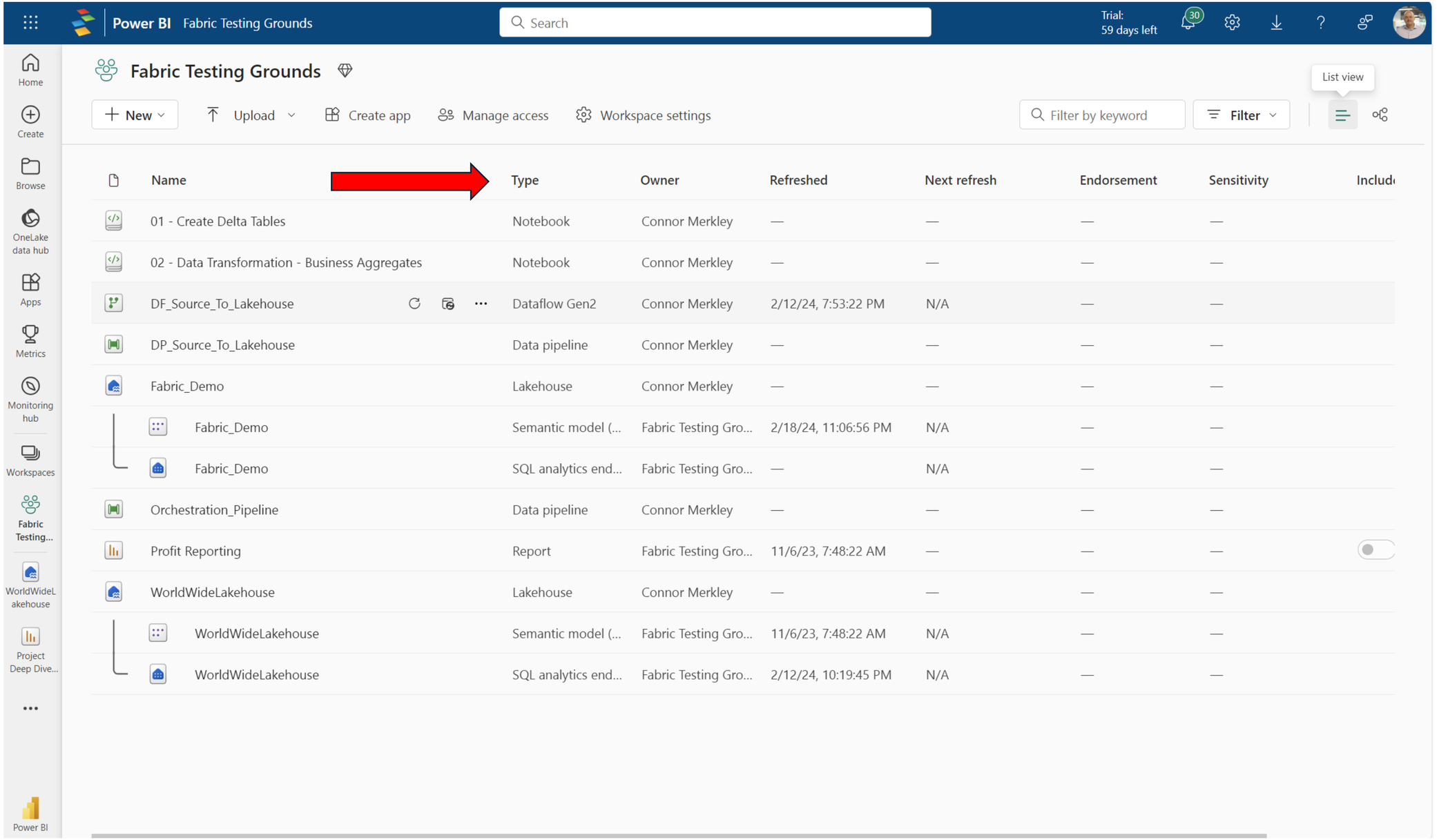


Common Data Problems Organizations Face

1. Which Azure data services do I need to use?
2. Difficulty in Determining Costs
3. Data Silos
4. How do I secure my Data?
5. Data Lineage and Adoption

Which Services Do I Need

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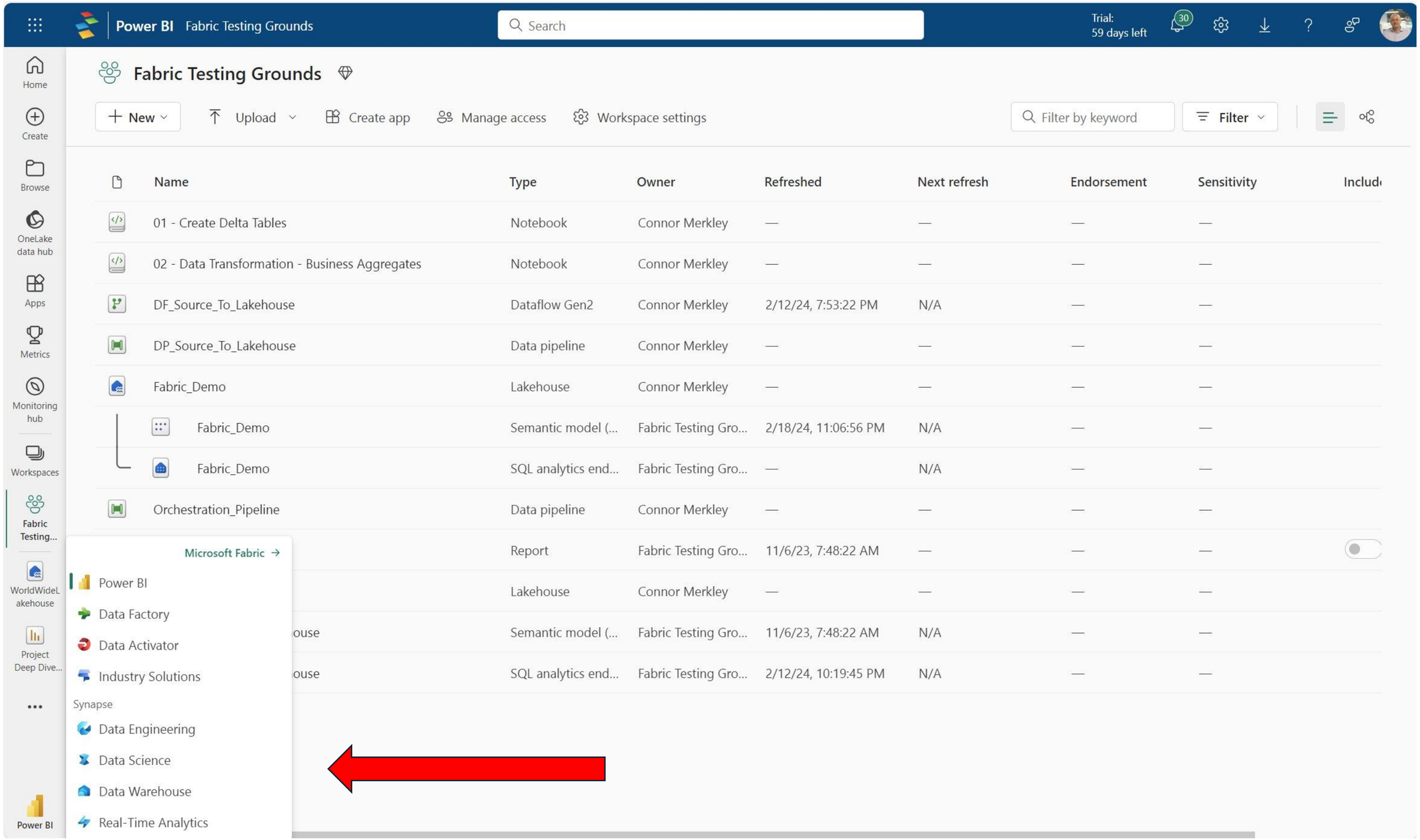
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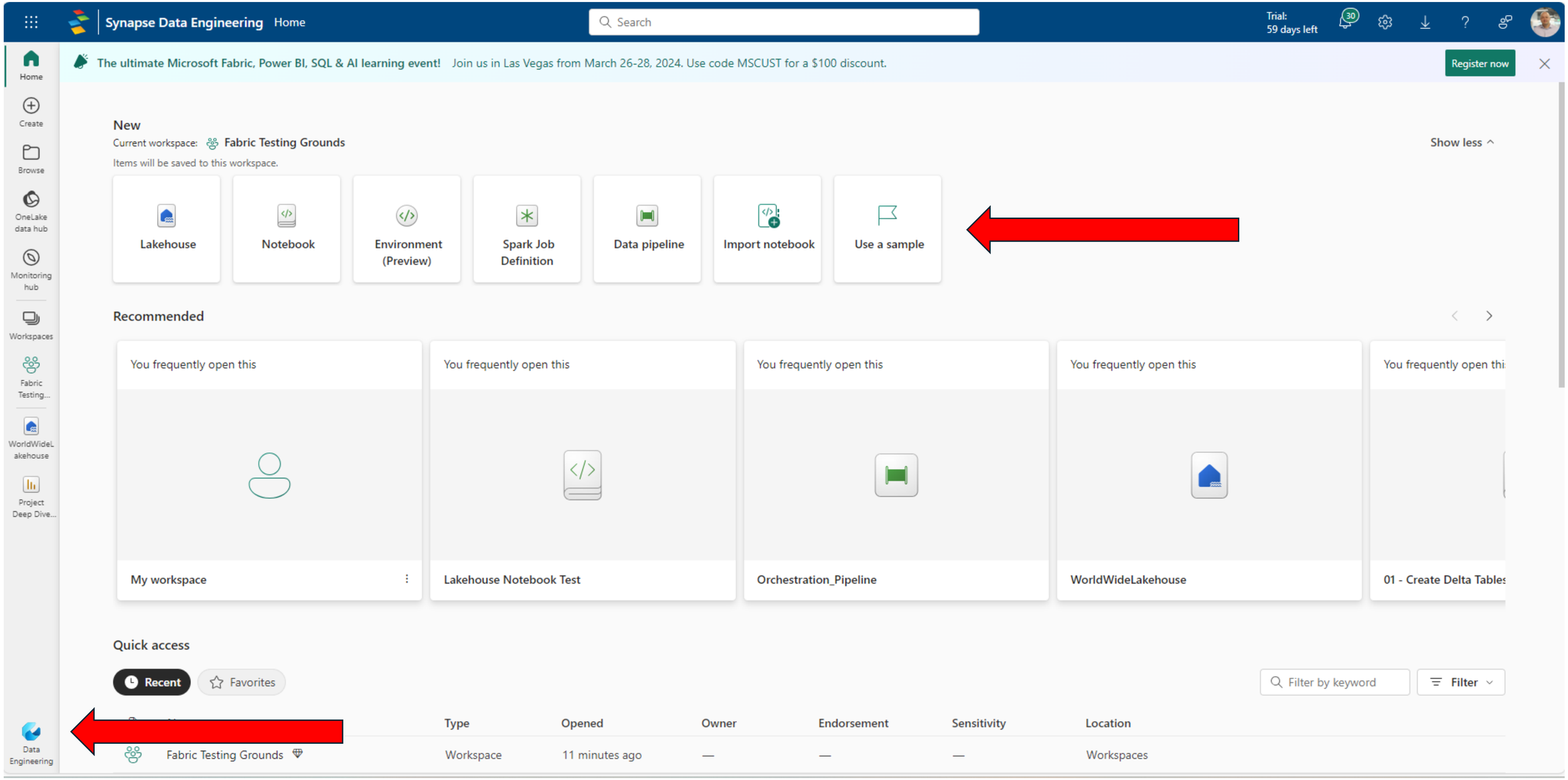
Data Warehouse
Real-Time Analytics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The ultimate Microsoft Fabric, Power BI, SQL & AI learning event! Join us in Las Vegas from March 26-28, 2024. Use code MSCUST for a $100 discount.
Register now
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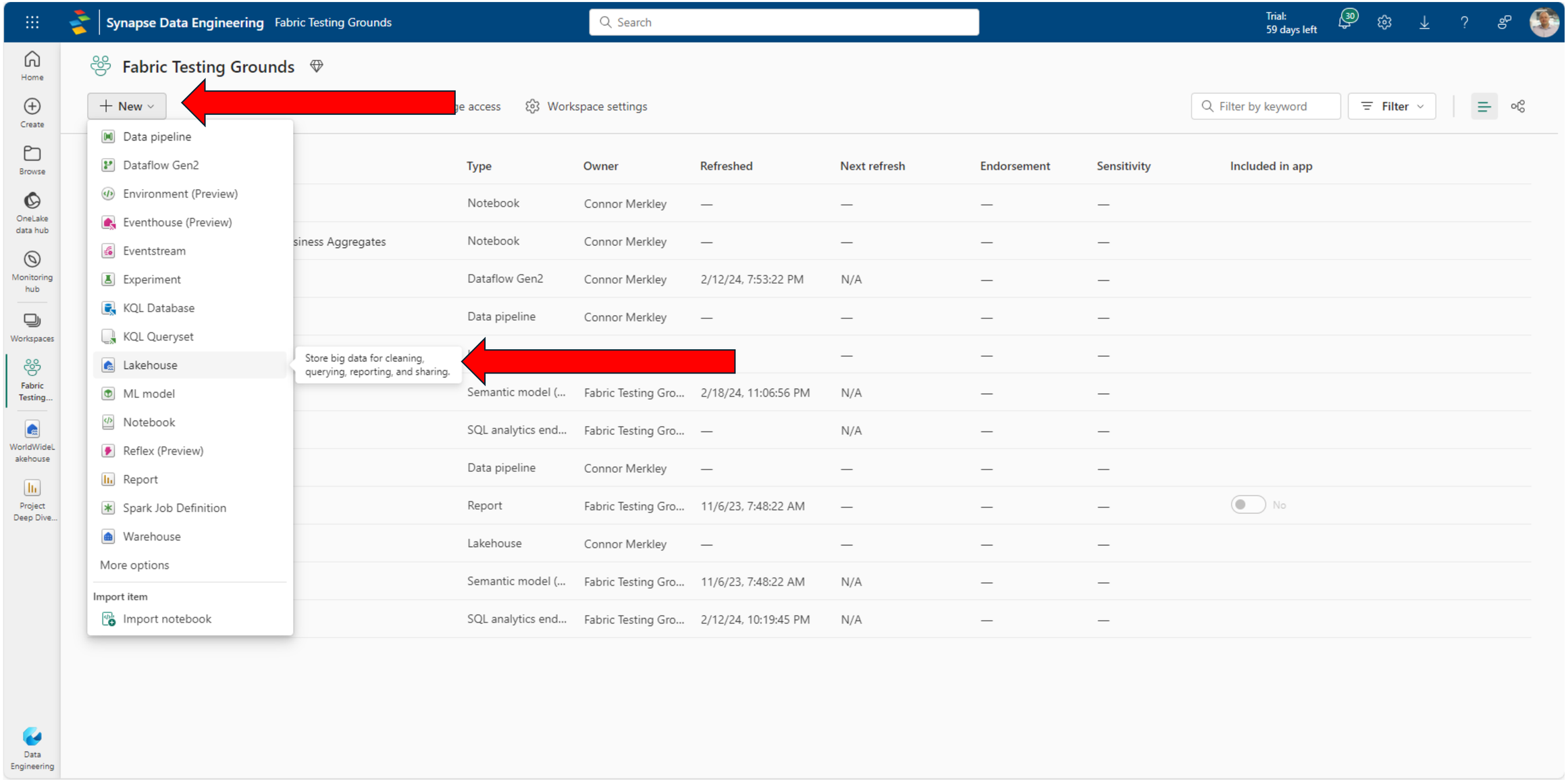
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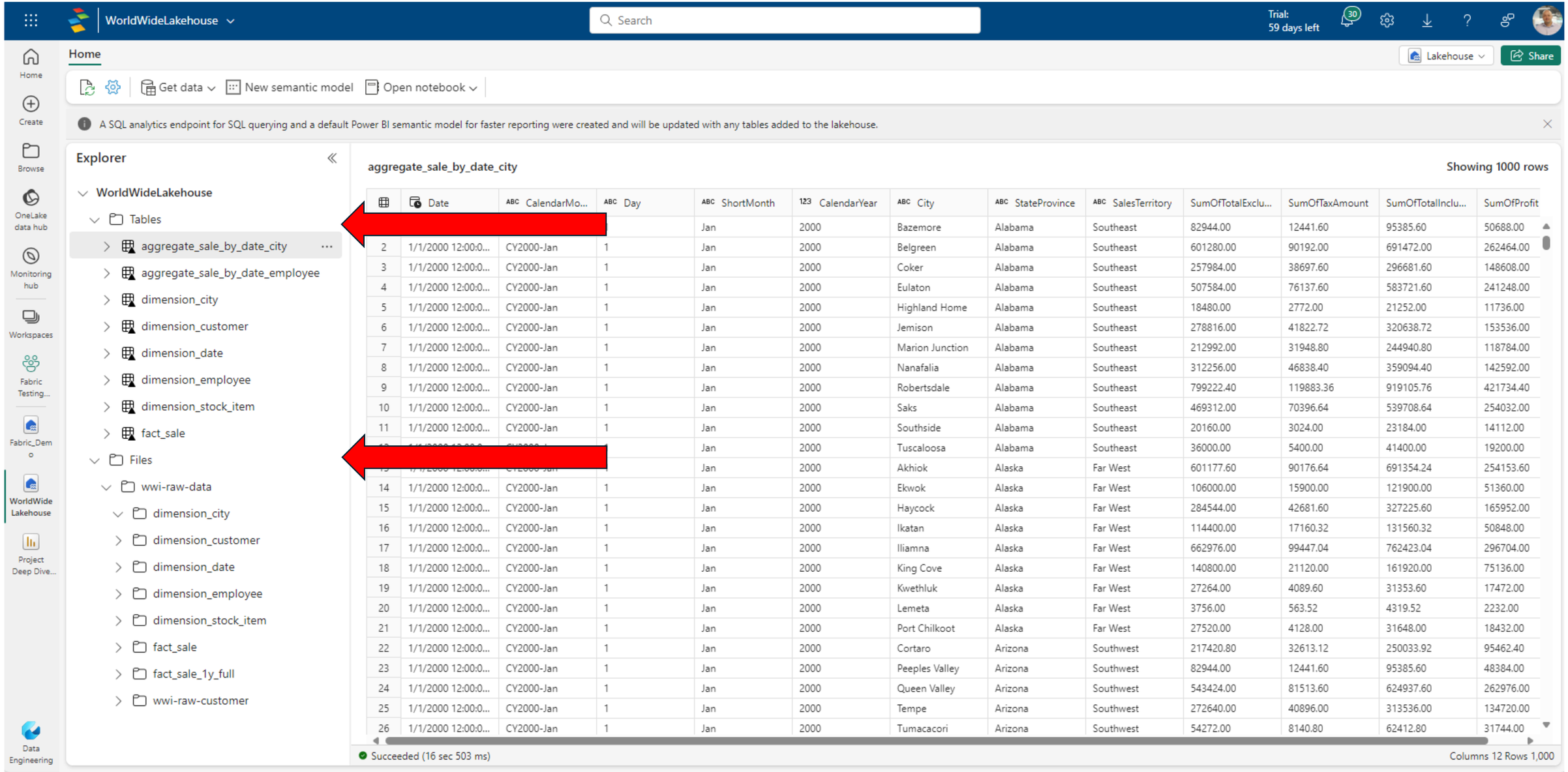

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				Jan	2000	Tuscaloosa	Alabama	Southeast	36000.00	5400.00	41400.00	19200.00
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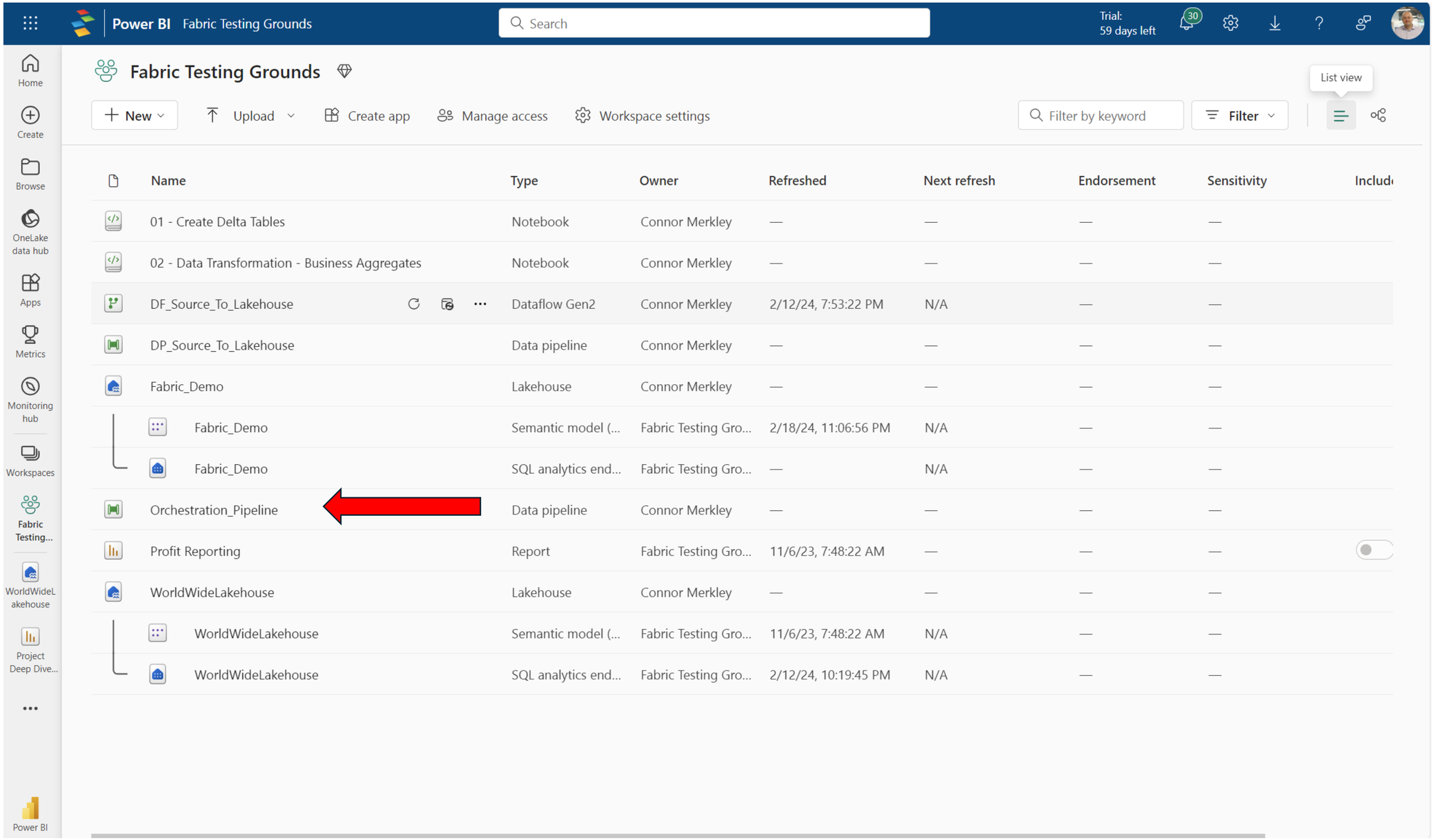
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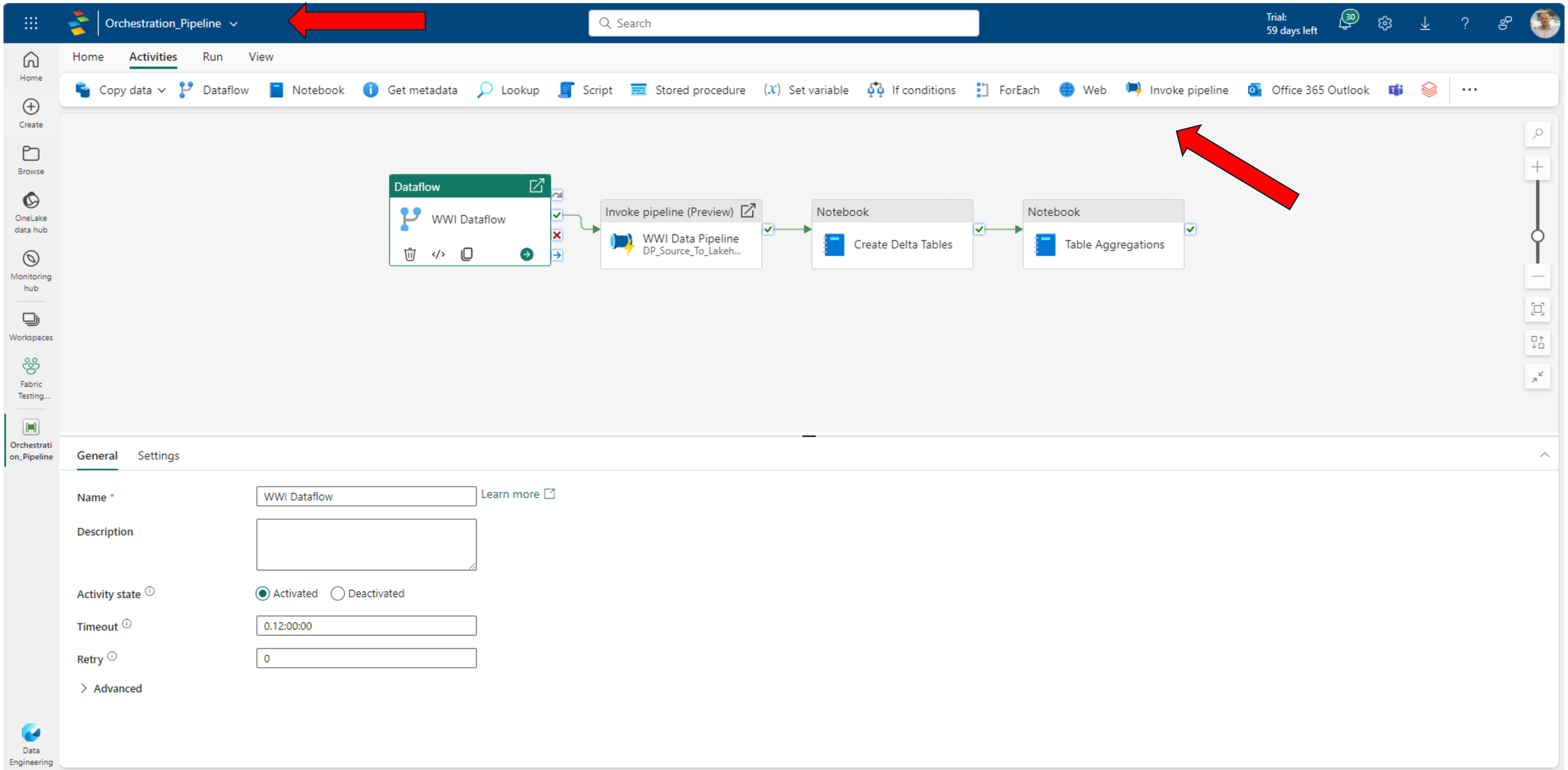
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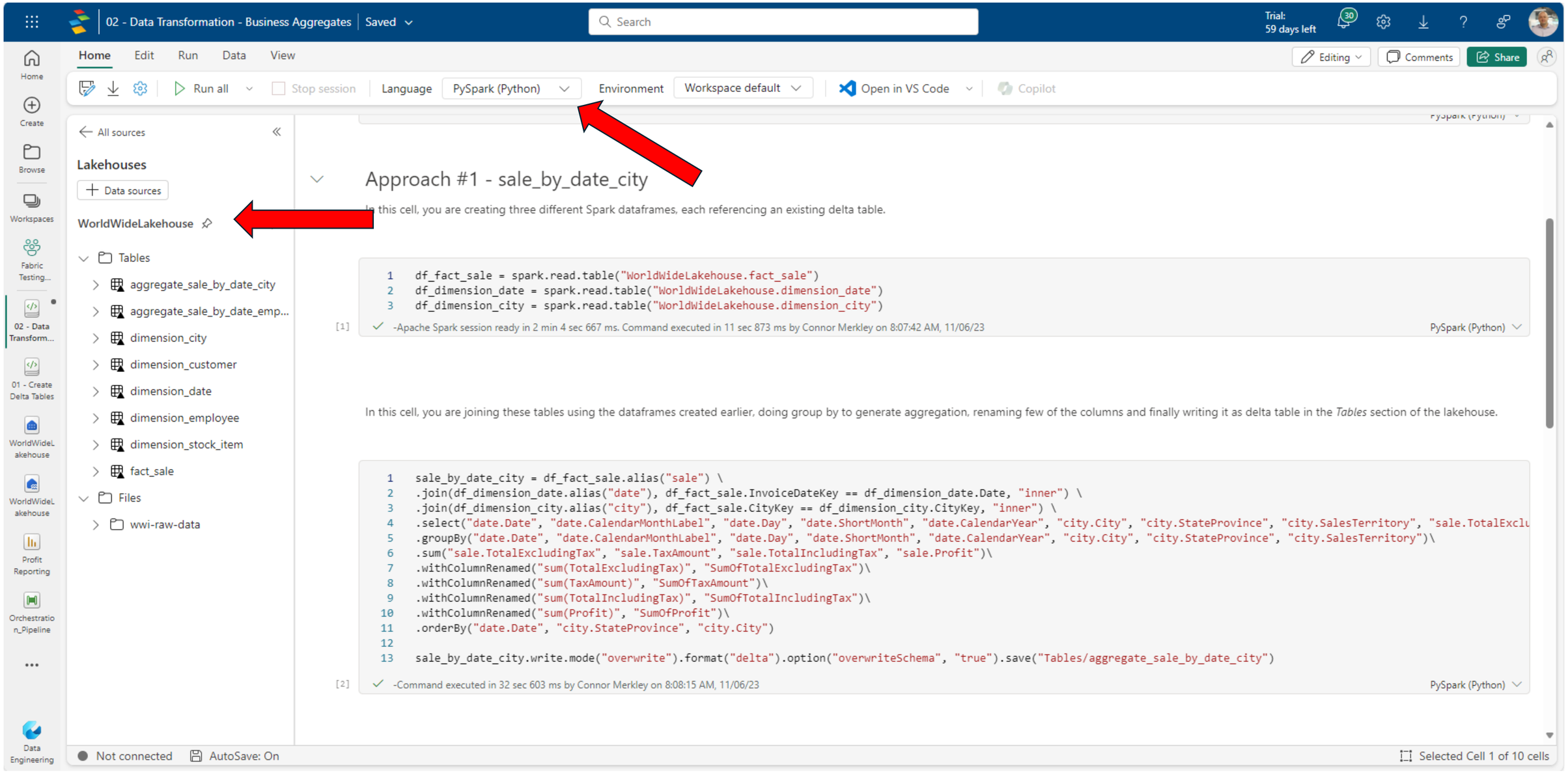
02 - Data Transformation - Business Aggregates | Saved
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PySpark (Python)
Environment
Workspace default
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All sources
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Data sources
WorldWideLakehouse
Tables
aggregate_sale_by_date_city
aggregate_sale_by_date_emp...
dimension_city
dimension_customer
dimension_date
dimension_employee
dimension_stock_item
fact_sale
Files
wwi-raw-data
Approach #1 - sale_by_date_city
In this cell, you are creating three different Spark dataframes, each referencing an existing delta table.
df_fact_sale = spark.read.table("WorldWideLakehouse.fact_sale")
df_dimension_date = spark.read.table("WorldWideLakehouse.dimension_date")
df_dimension_city = spark.read.table("WorldWideLakehouse.dimension_city")
[1]
-Apache Spark session ready in 2 min 4 sec 667 ms. Command executed in 11 sec 873 ms by Connor Merkley on 8:07:42 AM, 11/06/23
PySpark (Python)
In this cell, you are joining these tables using the dataframes created earlier, doing group by to generate aggregation, renaming few of the columns and finally writing it as delta table in the Tables section of the lakehouse.
sale_by_date_city = df_fact_sale.alias("sale") \
.join(df_dimension_date.alias("date"), df_fact_sale.InvoiceDateKey == df_dimension_date.Date, "inner") \
.join(df_dimension_city.alias("city"), df_fact_sale.CityKey == df_dimension_city.CityKey, "inner") \
.select("date.Date", "date.CalendarMonthLabel", "date.Day", "date.ShortMonth", "date.CalendarYear", "city.City", "city.StateProvince", "city.SalesTerritory", "sale.TotalExclu
.groupBy("date.Date", "date.CalendarMonthLabel", "date.Day", "date.ShortMonth", "date.CalendarYear", "city.City", "city.StateProvince", "city.SalesTerritory")\
.sum("sale.TotalExcludingTax", "sale.TaxAmount", "sale.TotalIncludingTax", "sale.Profit")\
.withColumnRenamed("sum(TotalExcludingTax)", "SumOfTotalExcludingTax")\
.withColumnRenamed("sum(TaxAmount)", "SumOfTaxAmount")\
.withColumnRenamed("sum(TotalIncludingTax)", "SumOfTotalIncludingTax")\
.withColumnRenamed("sum(Profit)", "SumOfProfit")\
.orderBy("date.Date", "city.StateProvince", "city.City")
sale_by_date_city.write.mode("overwrite").format("delta").option("overwriteSchema", "true").save("Tables/aggregate_sale_by_date_city")
[2]
-Command executed in 32 sec 603 ms by Connor Merkley on 8:08:15 AM, 11/06/23
PySpark (Python)
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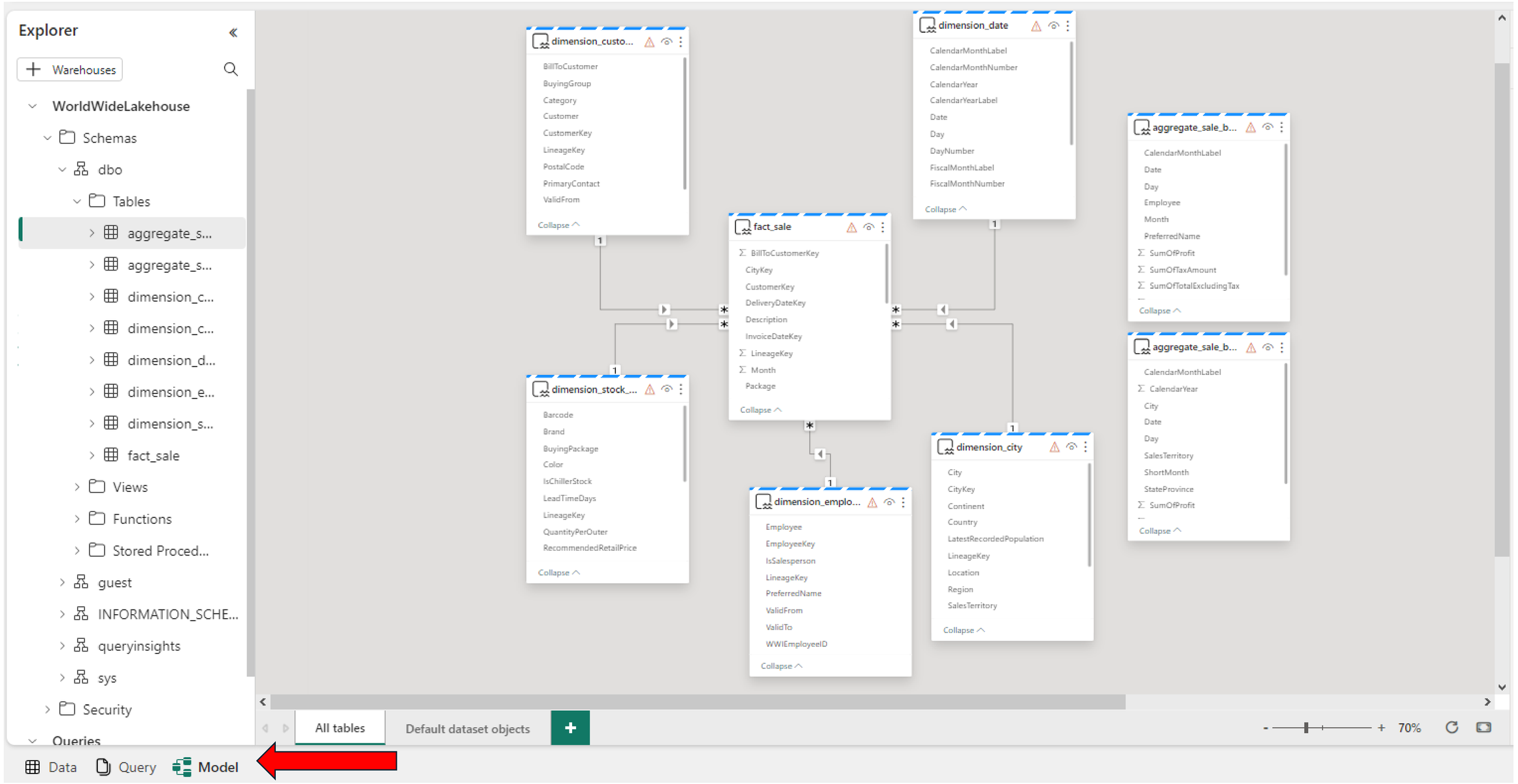
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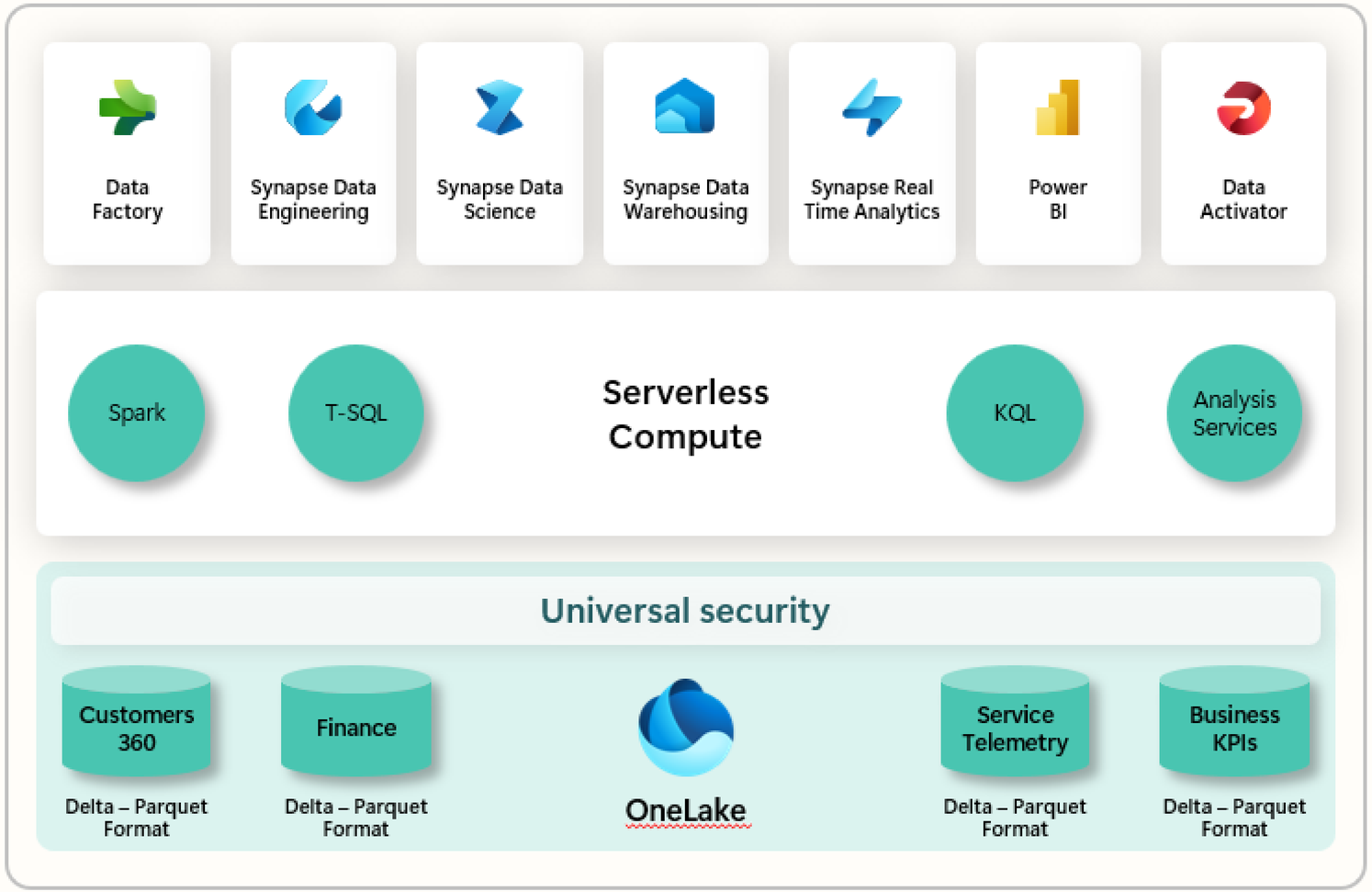

All the compute engines store their data automatically in OneLake

The data is stored in a single common format

Delta – Parquet, an open standards format, is the storage format for all tabular data in Microsoft Fabric

Once data is stored in the lake, it is directly accessible by all the engines without needing any import / export

All the compute engines have been fully optimized to work with Delta Parquet as their native format

Shared universal security model is enforced across all the engines

Determining Costs – Reducing Ambiguity

Azure Managed

Orchestration a

Orchestration

13
Activity Runs (in thousar

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33
Data movement activi
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Pipeline activity executi
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External Pipeline activi
execution hours

SKU	Capacity unit (CU)	Pay-as-you-go	Reservation
F 2	2	$262.80/month	$156.334/month ~41% savings
F 4	4	$525.60/month	$312.667/month ~41% savings
F 8	8	$1,051.20/month	$625.334/month ~41% savings
F 16	16	$2,102.40/month	$1,250.667/month ~41% savings
F 32	32	$4,204.80/month	$2,501.334/month ~41% savings
F 64	64	$8,409.60/month	$5,002.667/month ~41% savings
F 128	128	$16,819.20/month	$10,005.334/month ~41% savings
F 256	256	$33,638.40/month	$20,010.667/month ~41% savings
F 512	512	$67,276.80/month	$40,021.334/month ~41% savings
F 1024	1024	$134,553.60/month	$80,042.667/month ~41% savings

$87.25

= $13.00

= $8.25

= $33.00

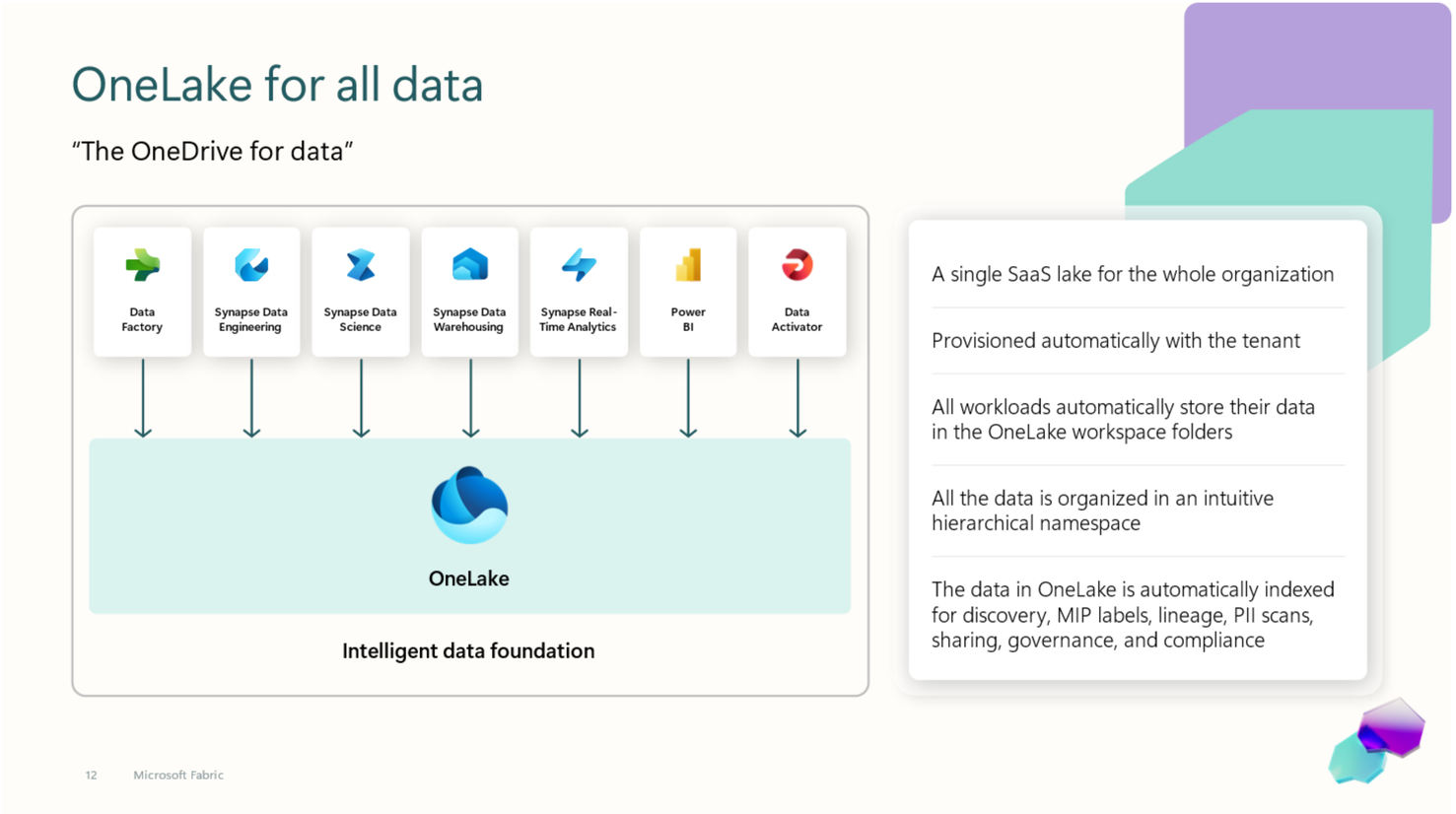
= $33.00

Slide is based on East US Region. Prices vary by region.

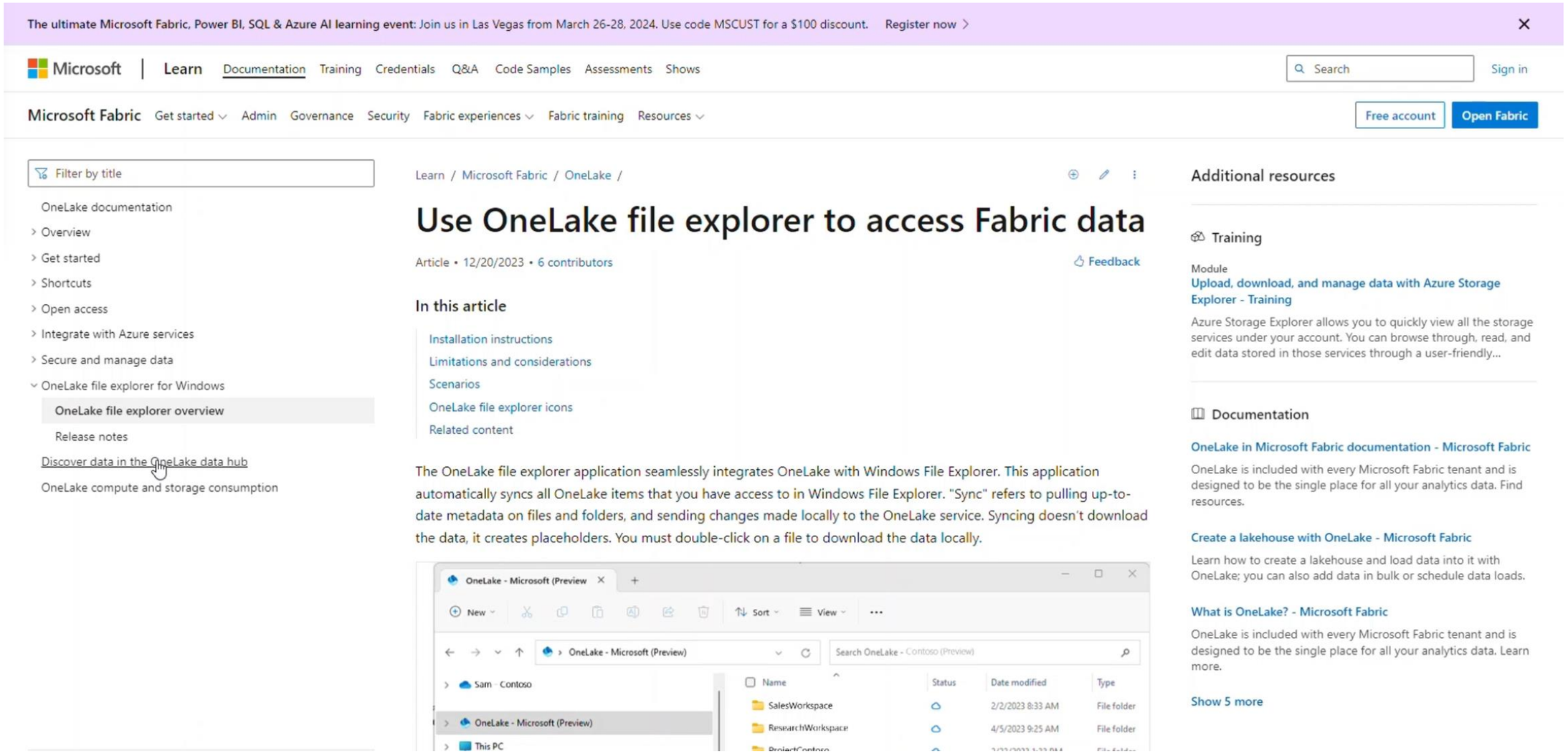
Fabric’s answer to Data Silos: OneLake

"The OneDrive for data"

- OneLake is the storage mechanism for Fabric.
- Based on ADLS Gen 2 Storage.
- Supports structured and unstructured data.
- Utilizes the Delta Parquet file format for data storage.
  - This format is compatible with various analytical engines such as T-SQL and Spark.



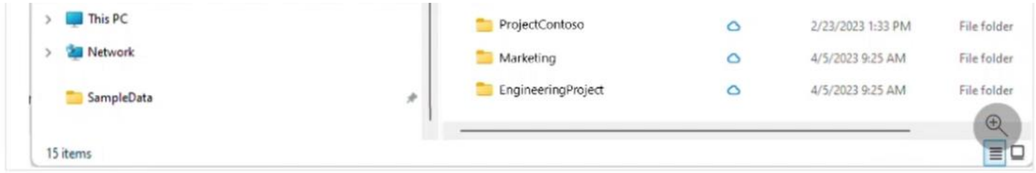
OneLake File Explorer



OneLake File Explorer

Filter by title

OneLake documentation
Overview
Get started
Shortcuts
Open access
Integrate with Azure services
Secure and manage data
OneLake file explorer for Windows
OneLake file explorer overview
Release notes
Discover data in the OneLake data hub
OneLake compute and storage consumption



Important

This feature is in preview.

When you create, update, or delete a file via Windows File Explorer, it automatically syncs the changes to OneLake service. Updates to your item made outside of your File Explorer aren't automatically synced. To pull these updates, you need to right-click on the item or subfolder in Windows File Explorer and select **Sync from OneLake**.

Installation instructions

OneLake file explorer currently supports Windows and has been validated on Windows 10 and 11.

To install:

1. Download the OneLake file explorer.
2. Double-click the file to start installing.

   The storage location on your PC for the placeholders and any downloaded content is `\%USERPROFILE%\OneLake - Microsoft\`.

Once you have installed and launched the application, you can now see your OneLake data in Windows File Explorer.

Limitations and considerations

- Workspace names with the "/" character, encoded escape characters such as `%23`, and names that look like GUIDs

Additional resources

Training

Module
Upload, download, and manage data with Azure Storage Explorer - Training

Azure Storage Explorer allows you to quickly view all the storage services under your account. You can browse through, read, and edit data stored in those services through a user-friendly...

Documentation

OneLake in Microsoft Fabric documentation - Microsoft Fabric

OneLake is included with every Microsoft Fabric tenant and is designed to be the single place for all your analytics data. Find resources.

Create a lakehouse with OneLake - Microsoft Fabric

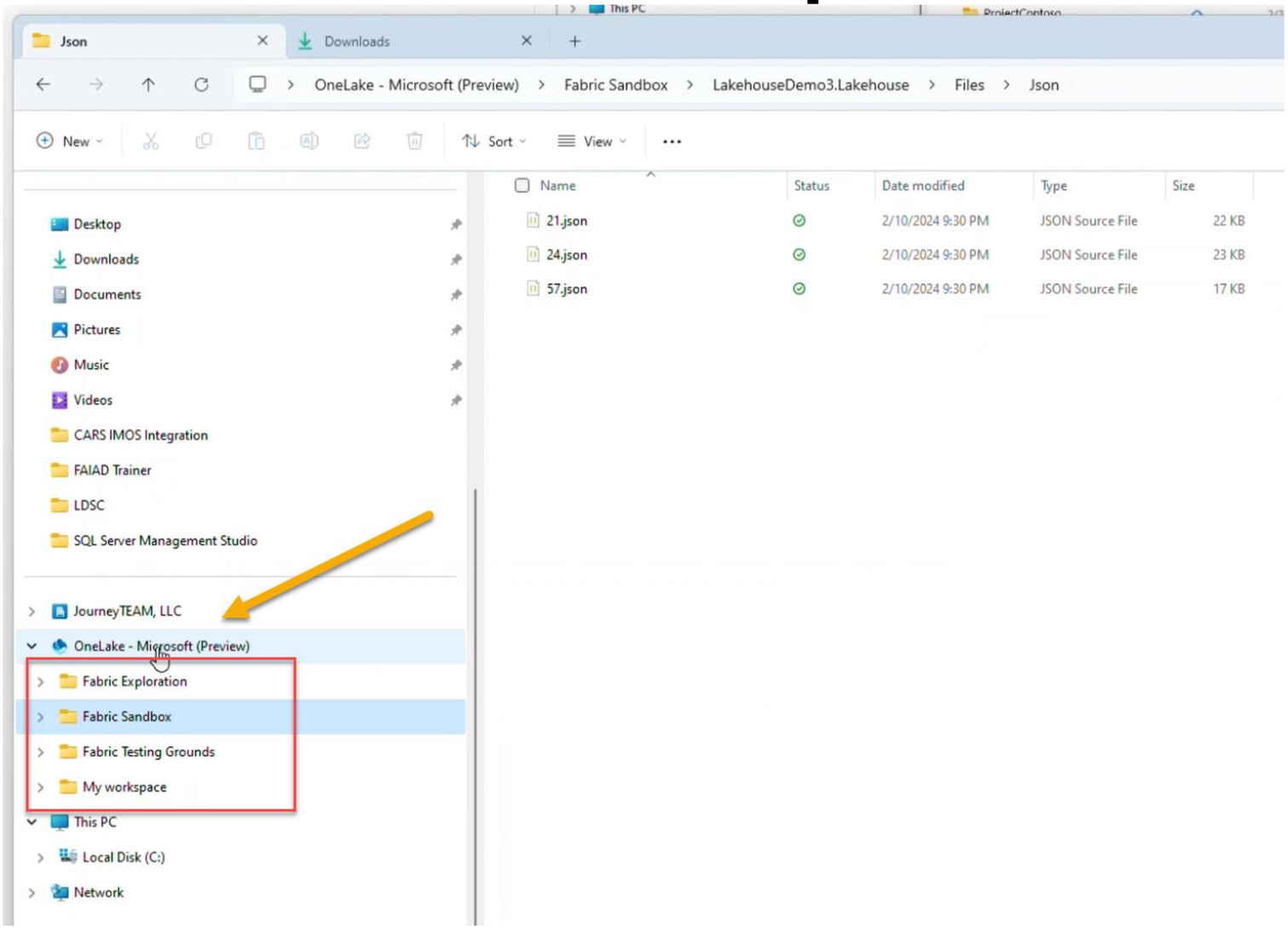
Learn how to create a lakehouse and load data into it with OneLake; you can also add data in bulk or schedule data loads.

What is OneLake? - Microsoft Fabric

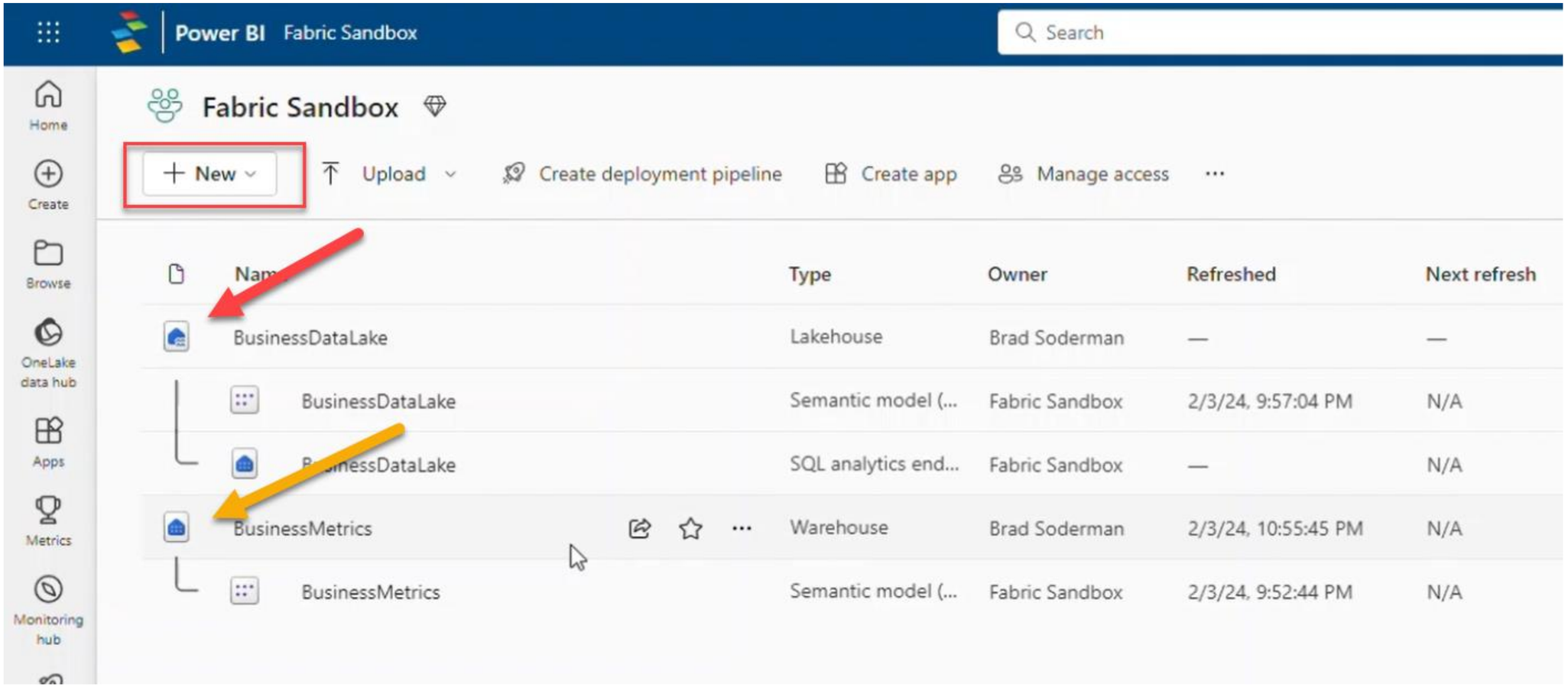
OneLake is included with every Microsoft Fabric tenant and is designed to be the single place for all your analytics data. Learn more.

Show 5 more

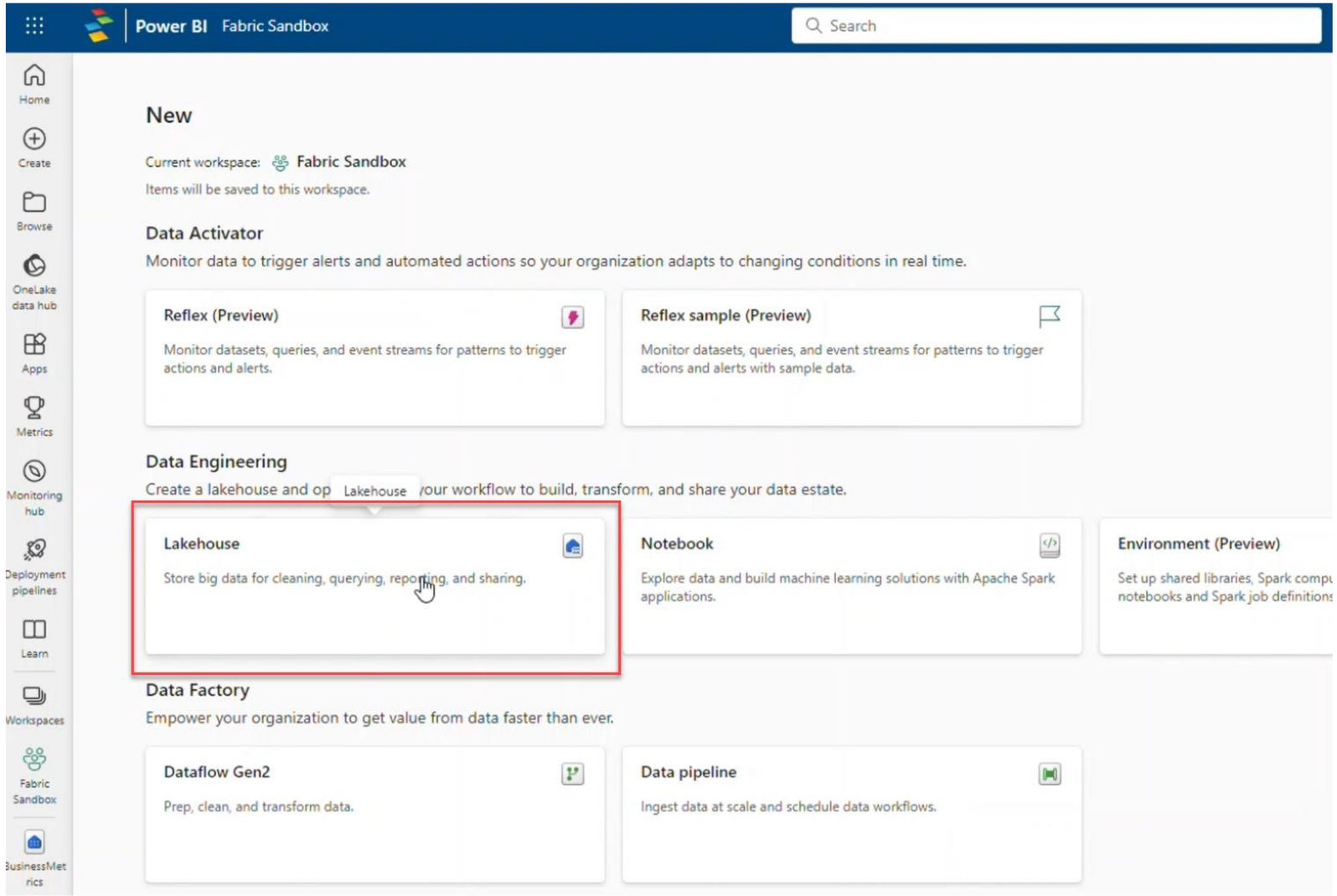
OneLake File Explorer



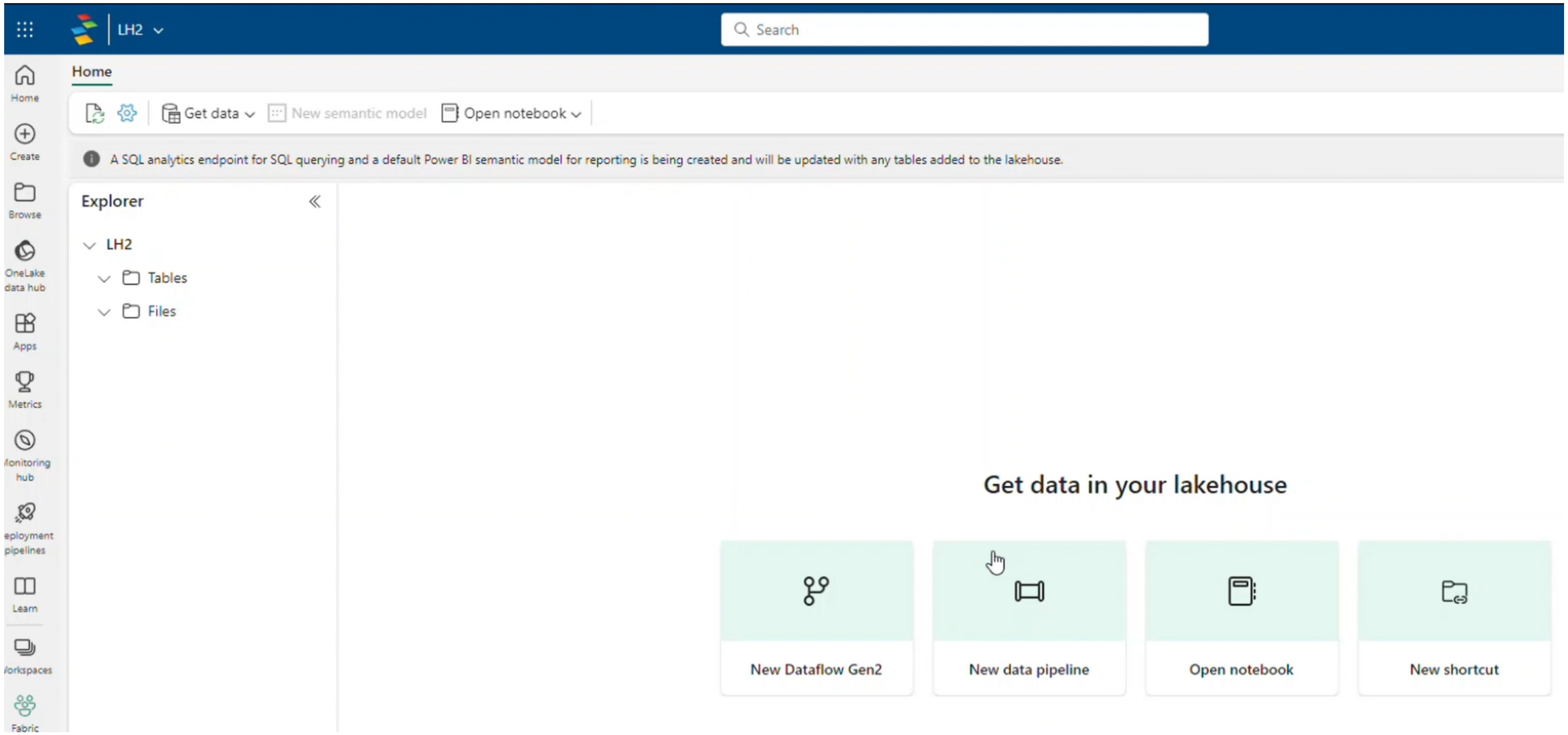
Workspace within Fabric



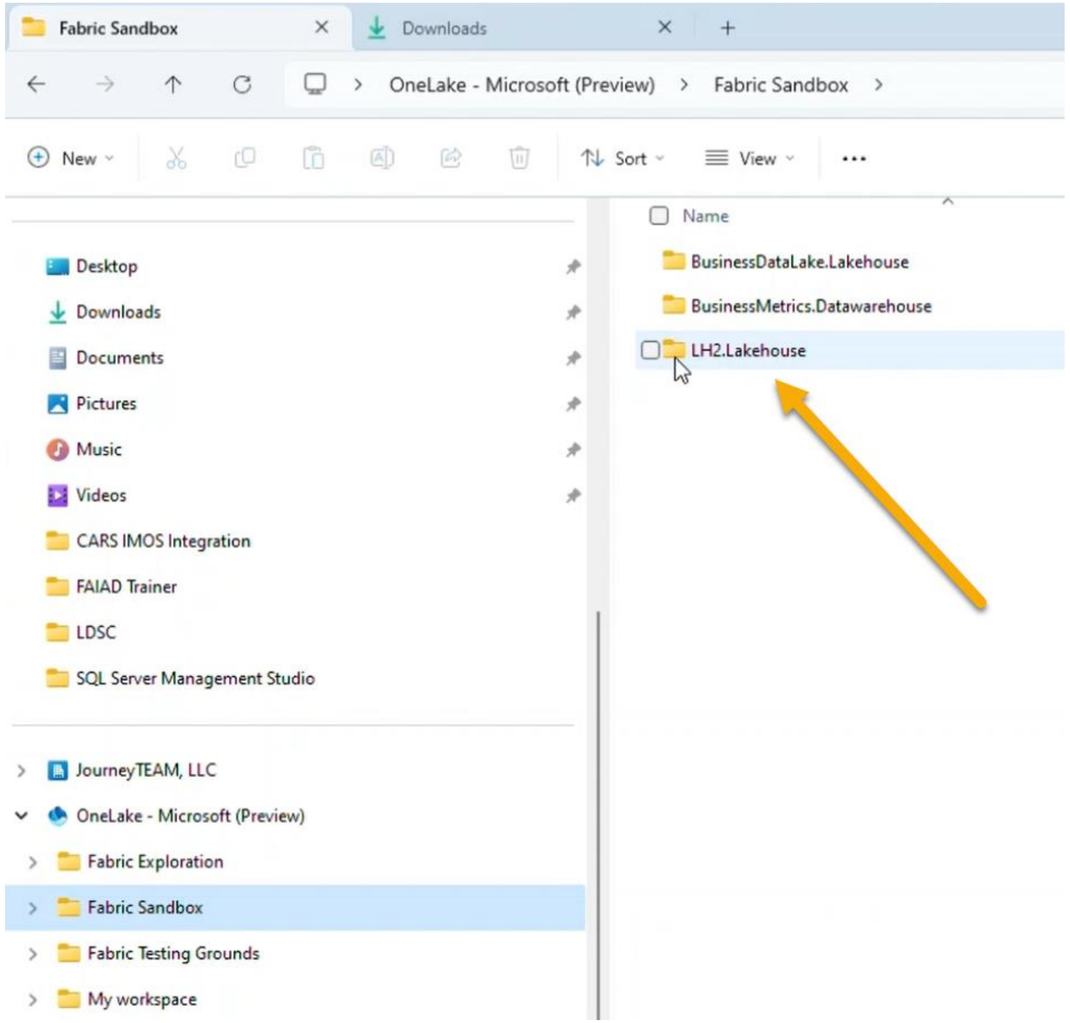
Workspace within Fabric

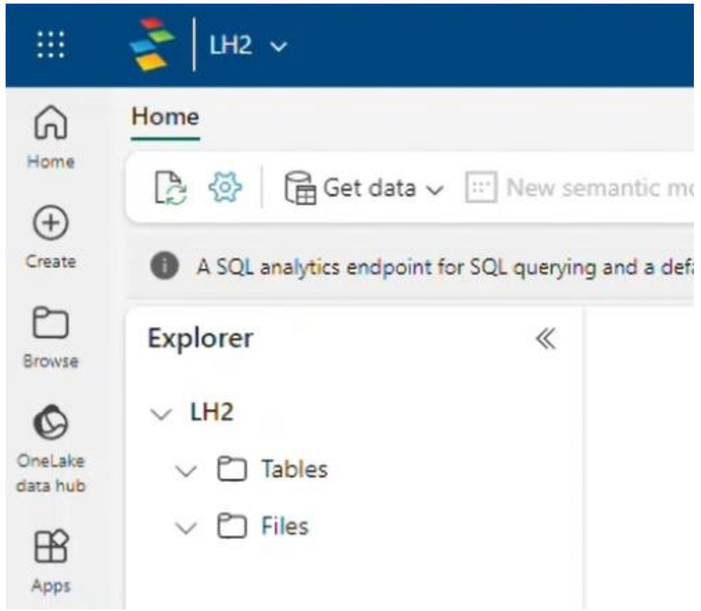


Workspace within Fabric

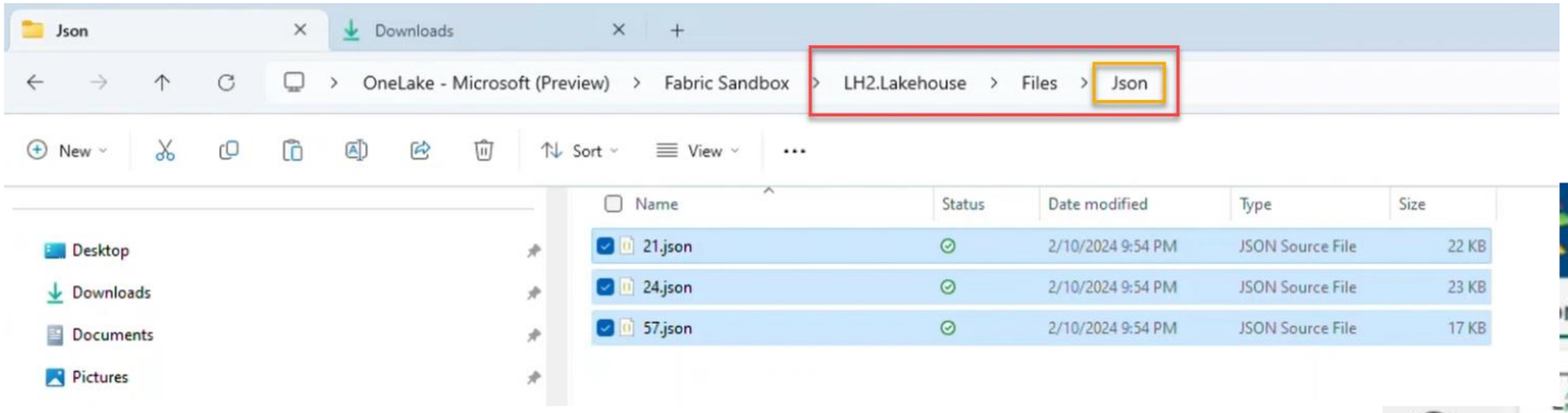


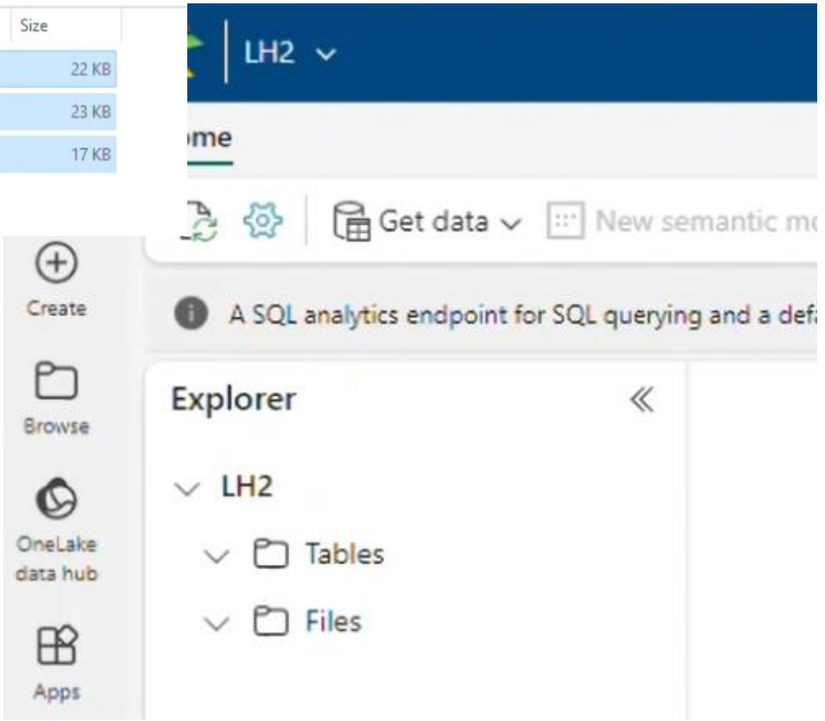
Comparison: New Lakehouse



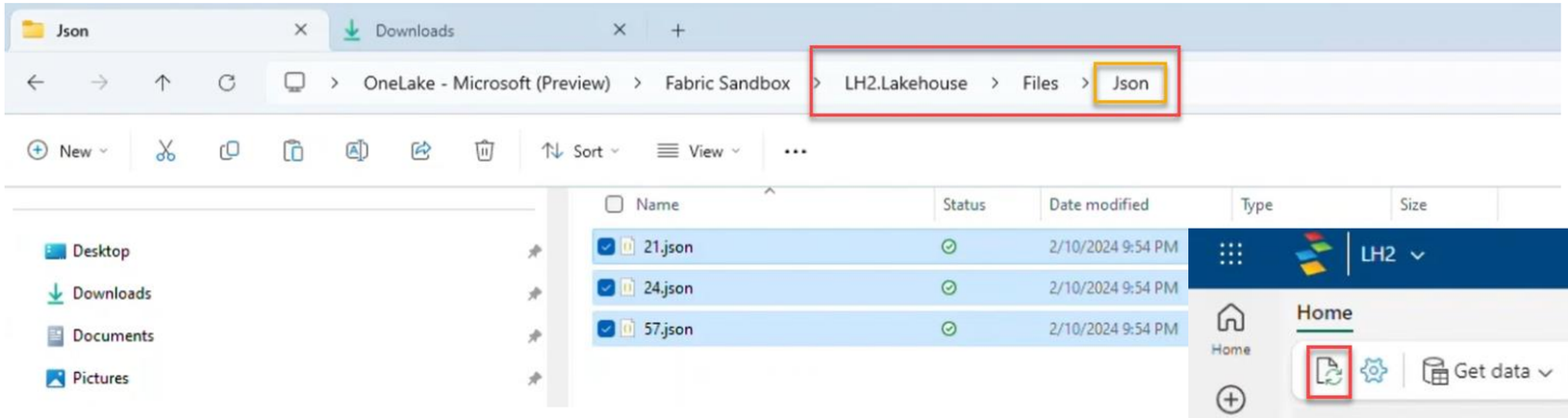


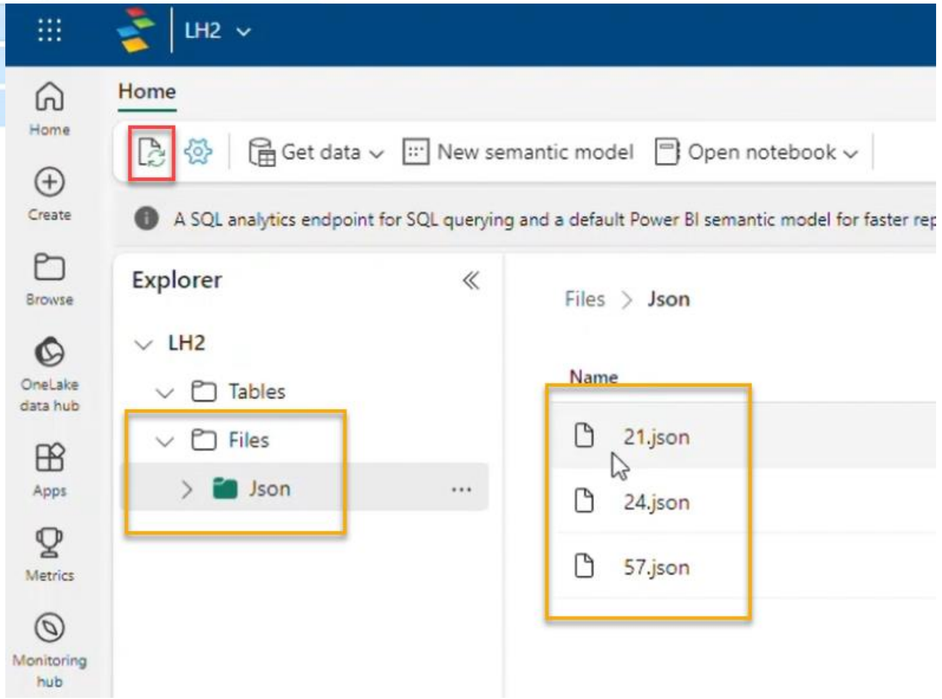
Let's add some files via File Explorer





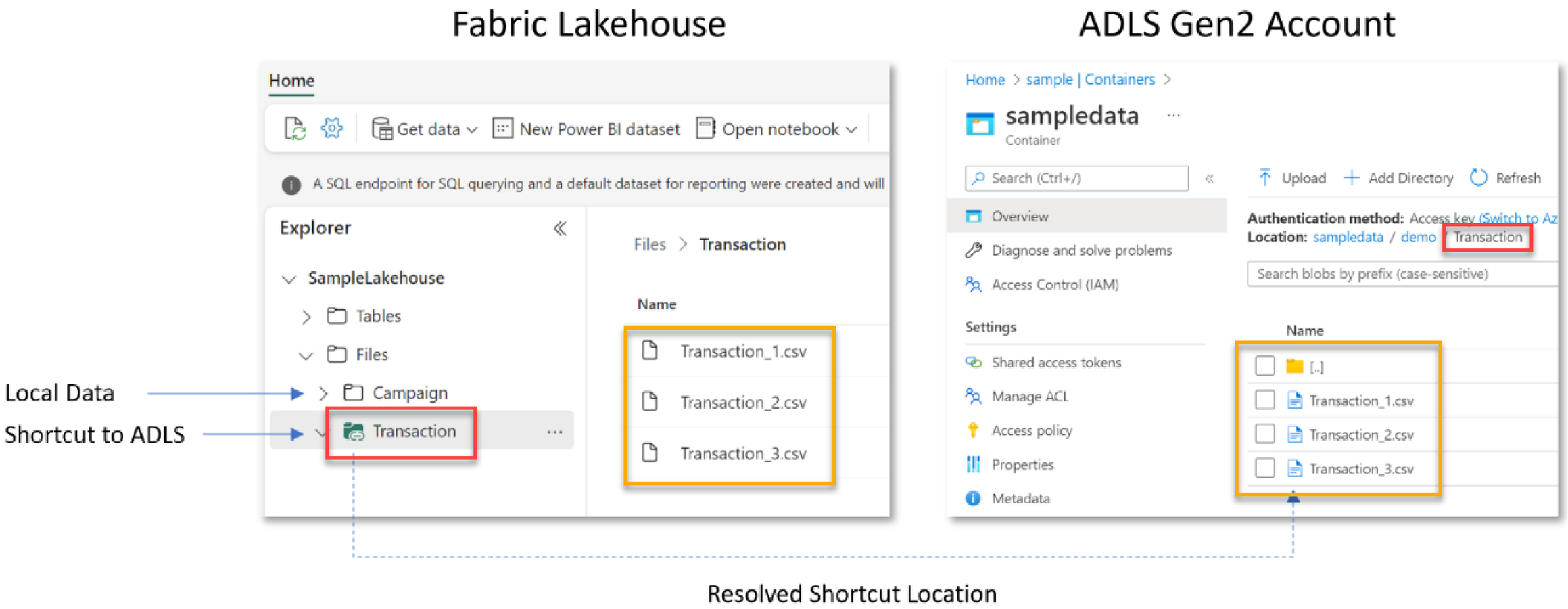
Let's refresh the workspace



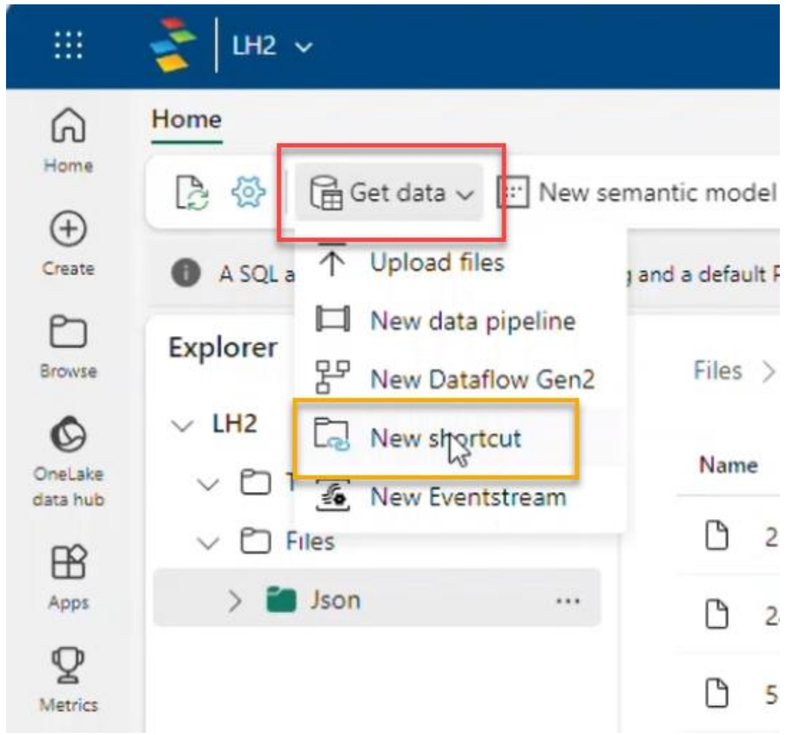


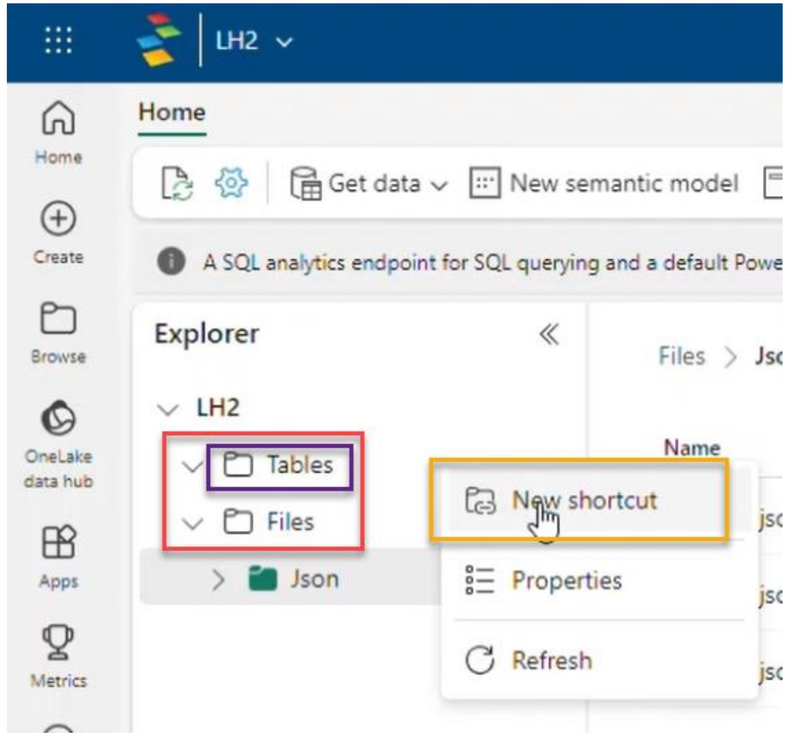
2-WAY SYNC BETWEEN FILE EXPLORER AND THE FABRIC WORKSPACE

Shortcuts

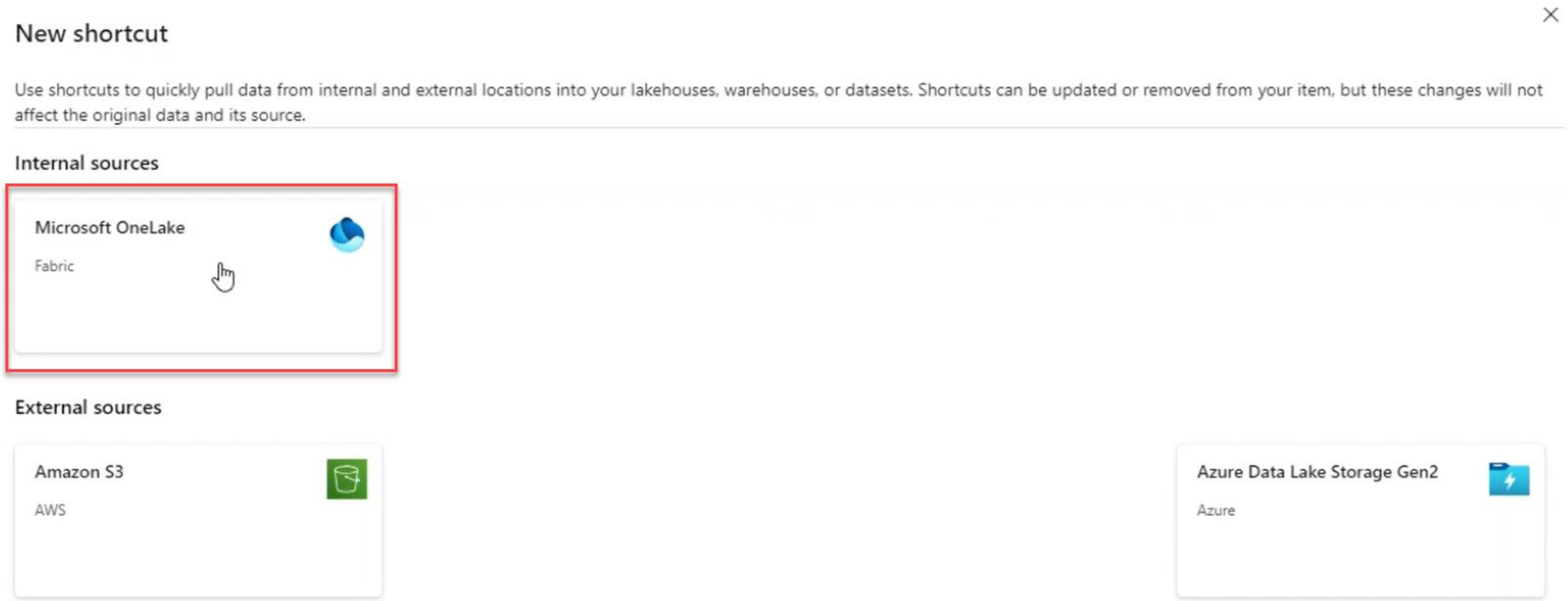

Fabric Lakehouse
ADLS Gen2 Account
Home
Get data
New Power BI dataset
Open notebook
A SQL endpoint for SQL querying and a default dataset for reporting were created and will
Explorer
SampleLakehouse
Tables
Files
Campaign
Transaction
Files > Transaction
Name
Transaction_1.csv
Transaction_2.csv
Transaction_3.csv
Local Data
Shortcut to ADLS
Home > sample | Containers >
sampledata
Container
Search (Ctrl+/)
Upload
Add Directory
Refresh
Overview
Diagnose and solve problems
Access Control (IAM)
Settings
Shared access tokens
Manage ACL
Access policy
Properties
Metadata
Authentication method: Access key (Switch to Az
Location: sampledata / demo / Transaction
Search blobs by prefix (case-sensitive)
Name
[..]
Transaction_1.csv
Transaction_2.csv
Transaction_3.csv
Resolved Shortcut Location

Creating a shortcut

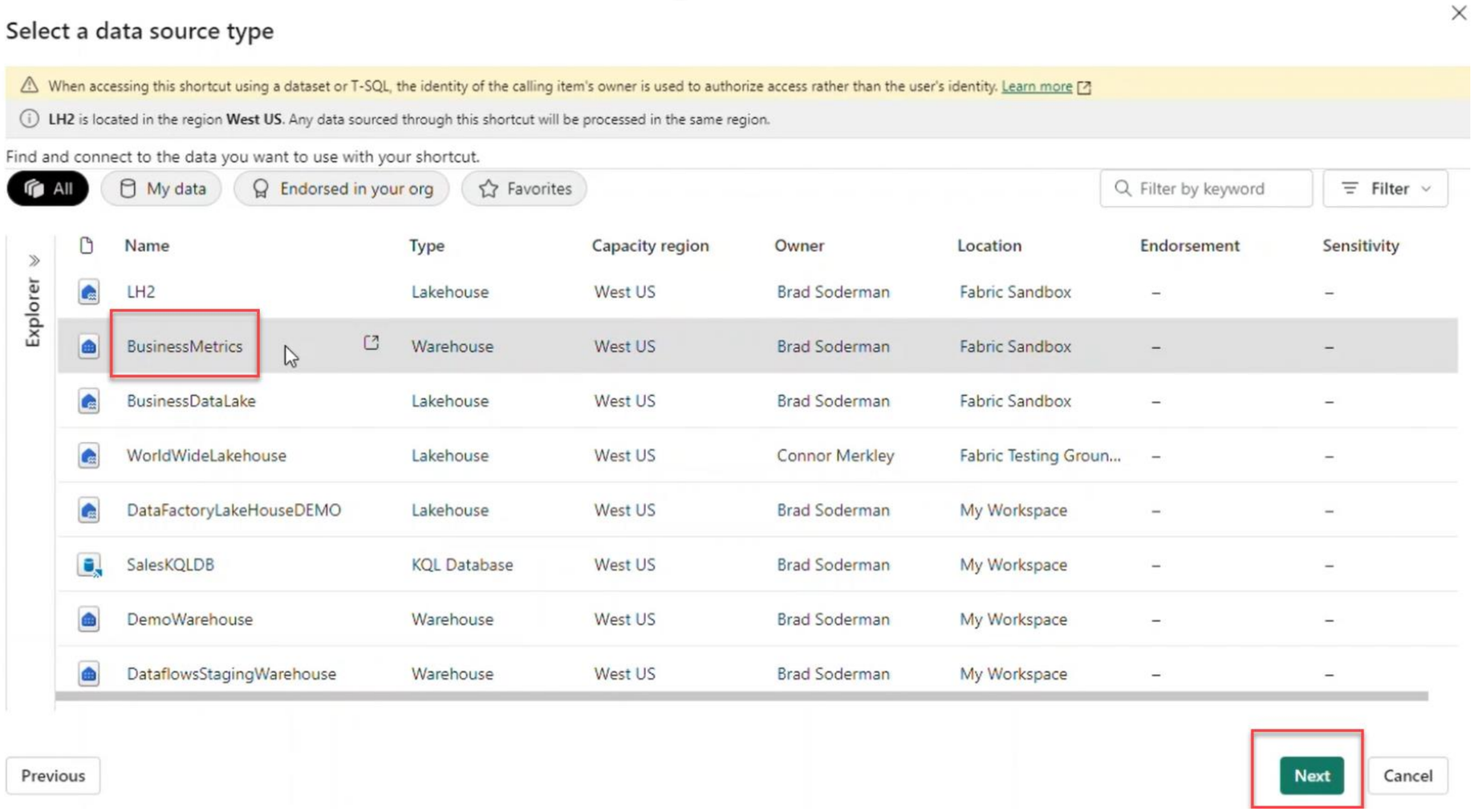




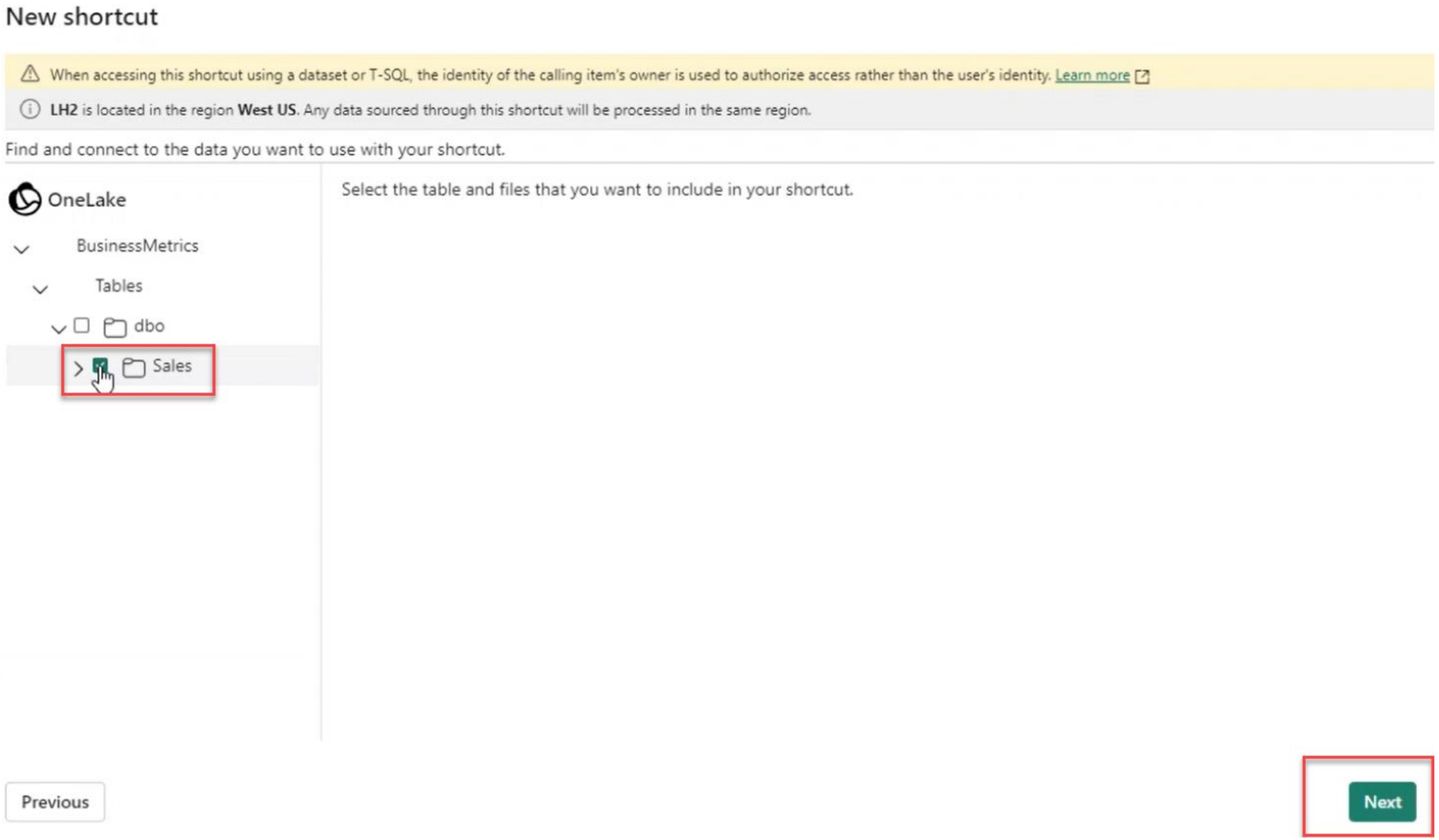
Creating a shortcut



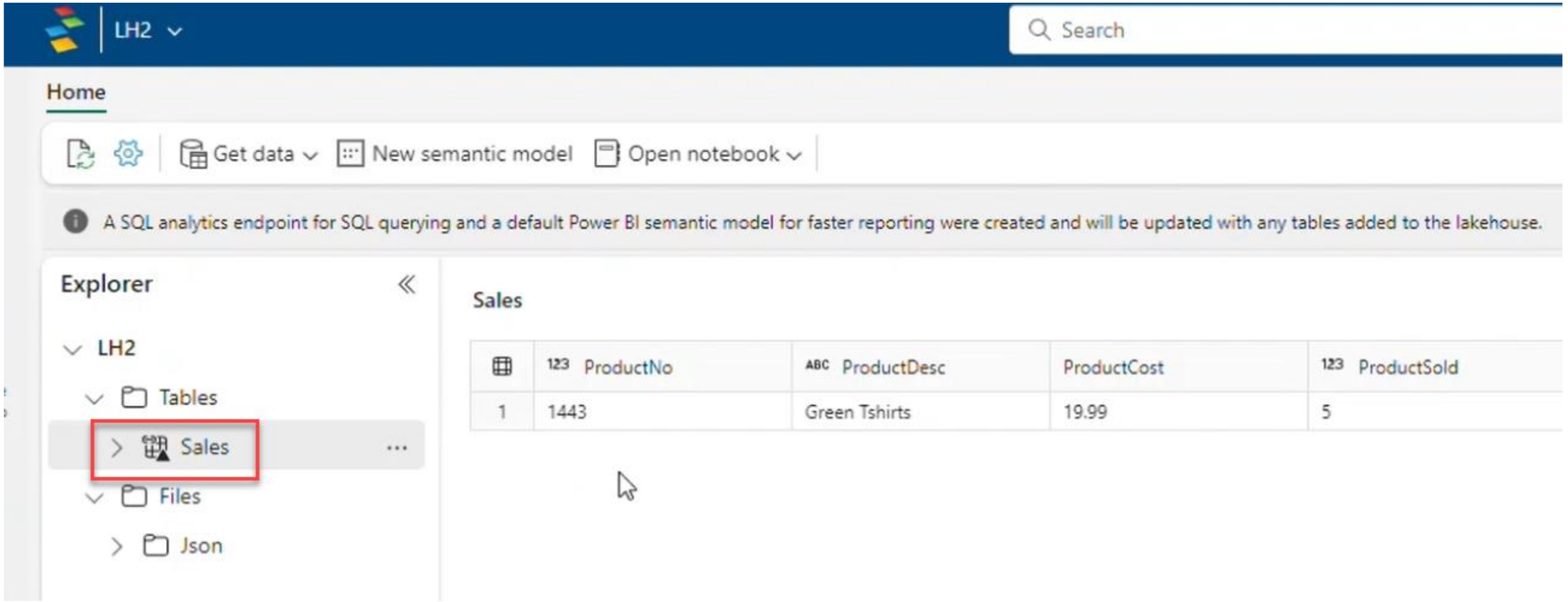
Creating a shortcut



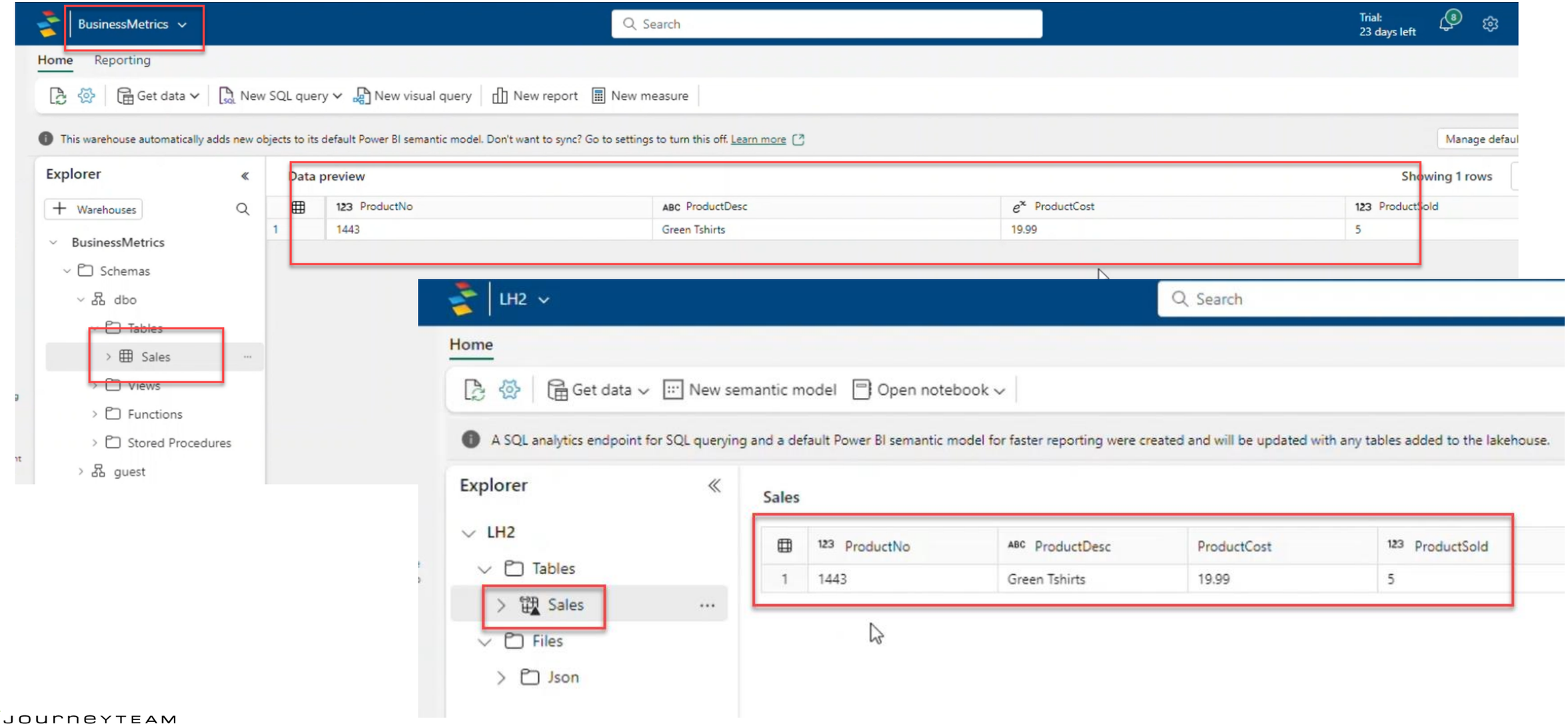
Creating a shortcut



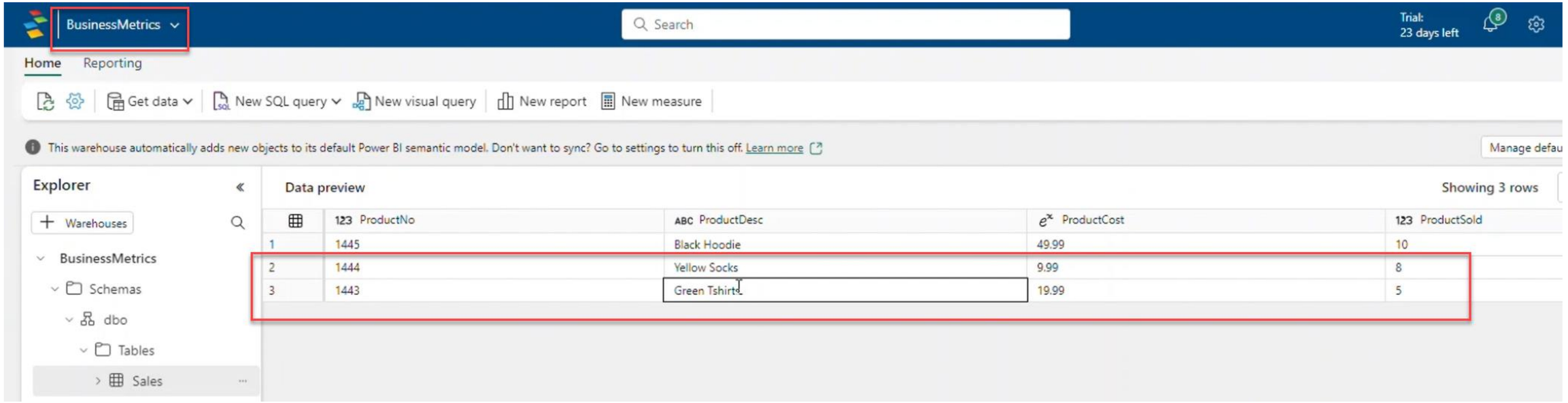
Viewing a shortcut



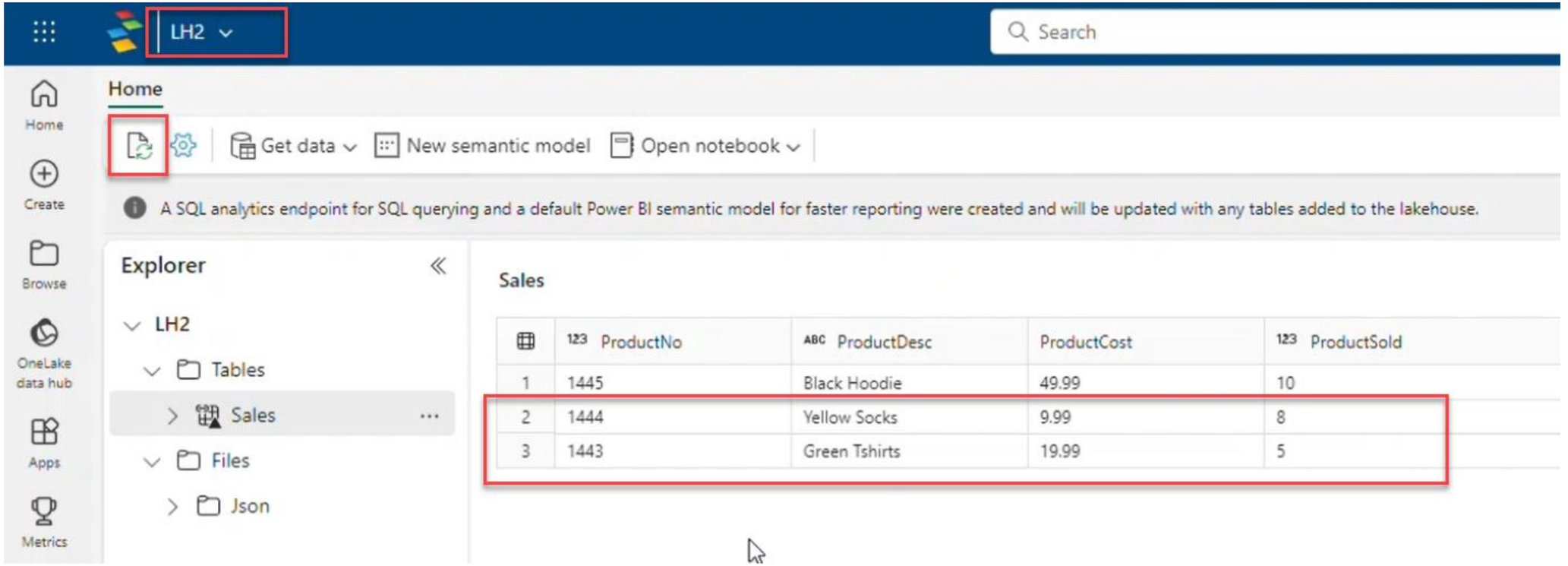
Viewing the source



Updating the source

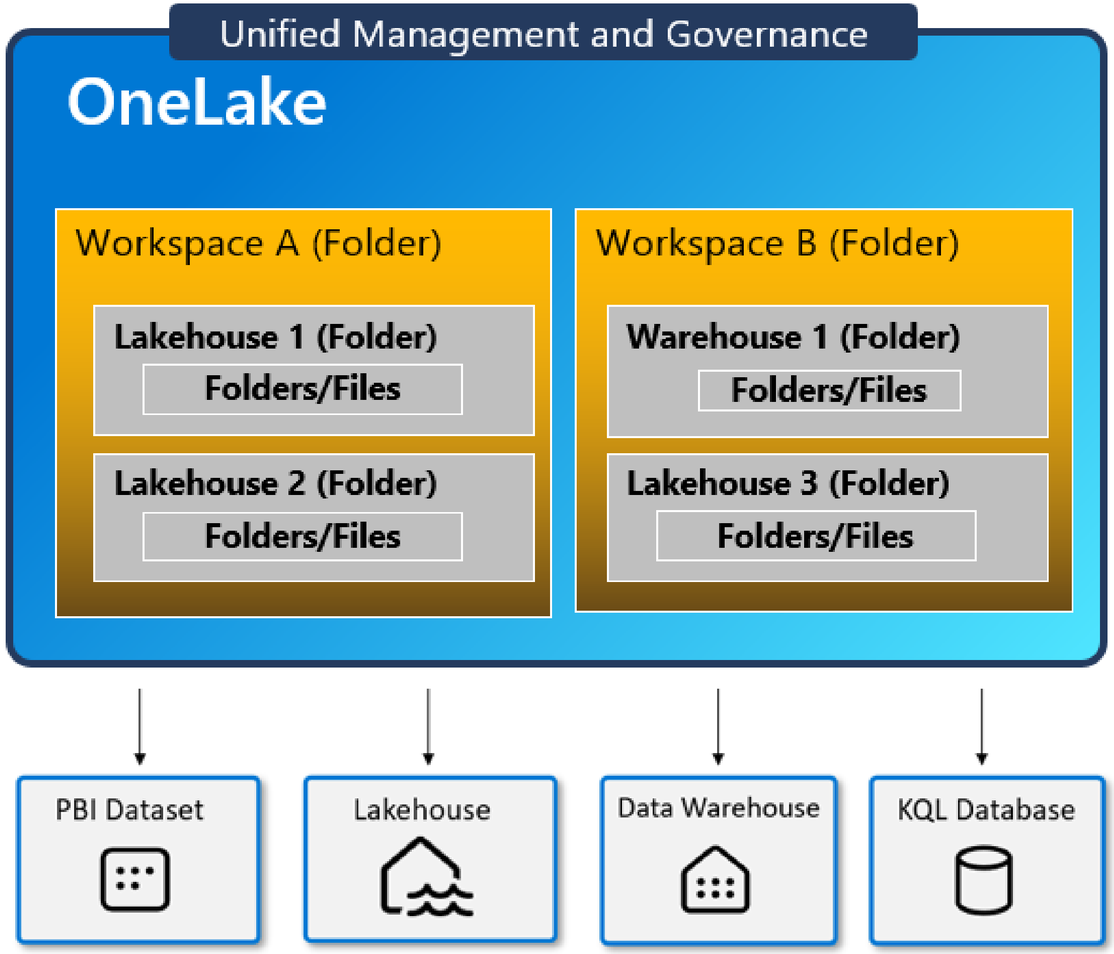


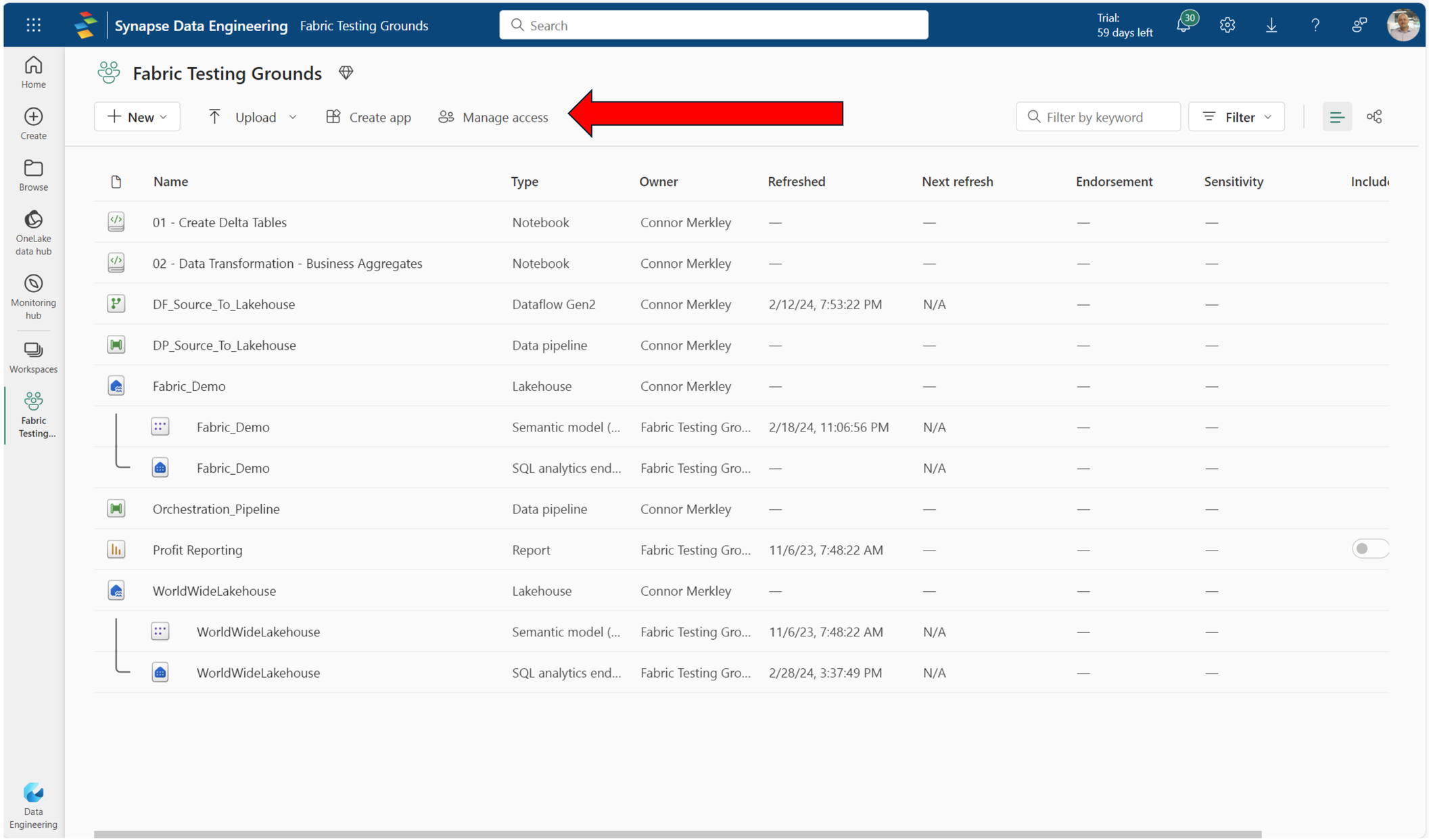
Viewing changes in the shortcut



Security in Microsoft Fabric

- Continuous
- Configurable
- Automated
- Evolving




Synapse Data Engineering
Fabric Testing Grounds
Search
Trial:
59 days left
30
Home
Create
Browse
OneLake data hub
Monitoring hub
Workspaces
Fabric Testing...
Data Engineering
Fabric Testing Grounds
New
Upload
Create app
Manage access
Filter by keyword
Filter
Name
Type
Owner
Refreshed
Next refresh
Endorsement
Sensitivity
01 - Create Delta Tables
Notebook
Connor Merkley
02 - Data Transformation - Business Aggregates
Notebook
Connor Merkley
DF_Source_To_Lakehouse
Dataflow Gen2
Connor Merkley
2/12/24, 7:53:22 PM
N/A
DP_Source_To_Lakehouse
Data pipeline
Connor Merkley
Fabric_Demo
Lakehouse
Connor Merkley
Fabric_Demo
Semantic model (...
Fabric Testing Gro...
2/18/24, 11:06:56 PM
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Fabric_Demo
SQL analytics end...
Fabric Testing Gro...
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Orchestration_Pipeline
Data pipeline
Connor Merkley
Profit Reporting
Report
Fabric Testing Gro...
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WorldWideLakehouse
Lakehouse
Connor Merkley
WorldWideLakehouse
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Fabric Testing Gro...
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WorldWideLakehouse
SQL analytics end...
Fabric Testing Gro...
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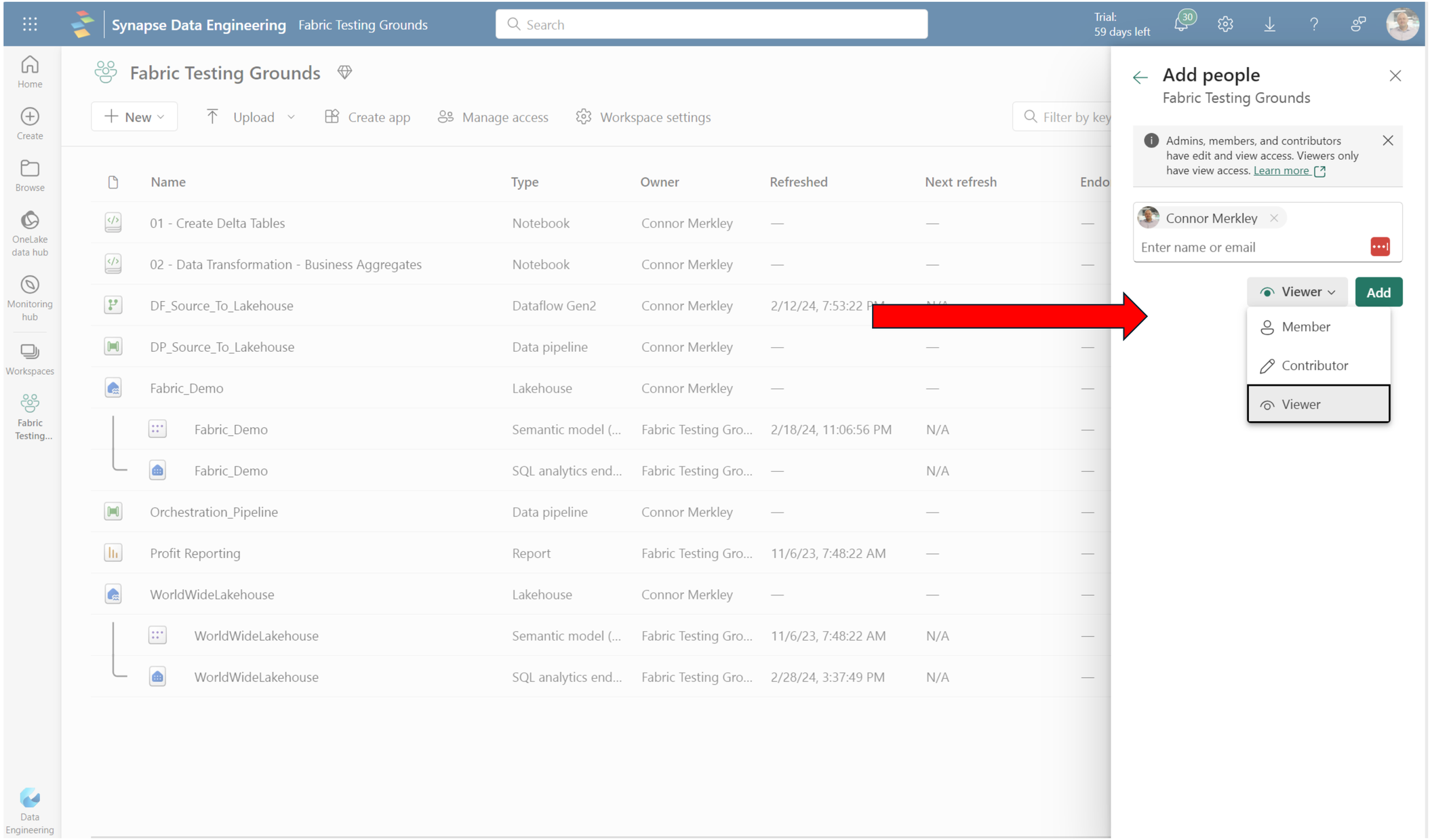
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Trial:
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OneLake data hub
Monitoring hub
Workspaces
Fabric Testing...
Data Engineering
Fabric Testing Grounds
New
Upload
Create app
Manage access
Workspace settings
Filter by key
Name
Type
Owner
Refreshed
Next refresh
Endo
01 - Create Delta Tables
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Semantic model (...
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2/18/24, 11:06:56 PM
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SQL analytics end...
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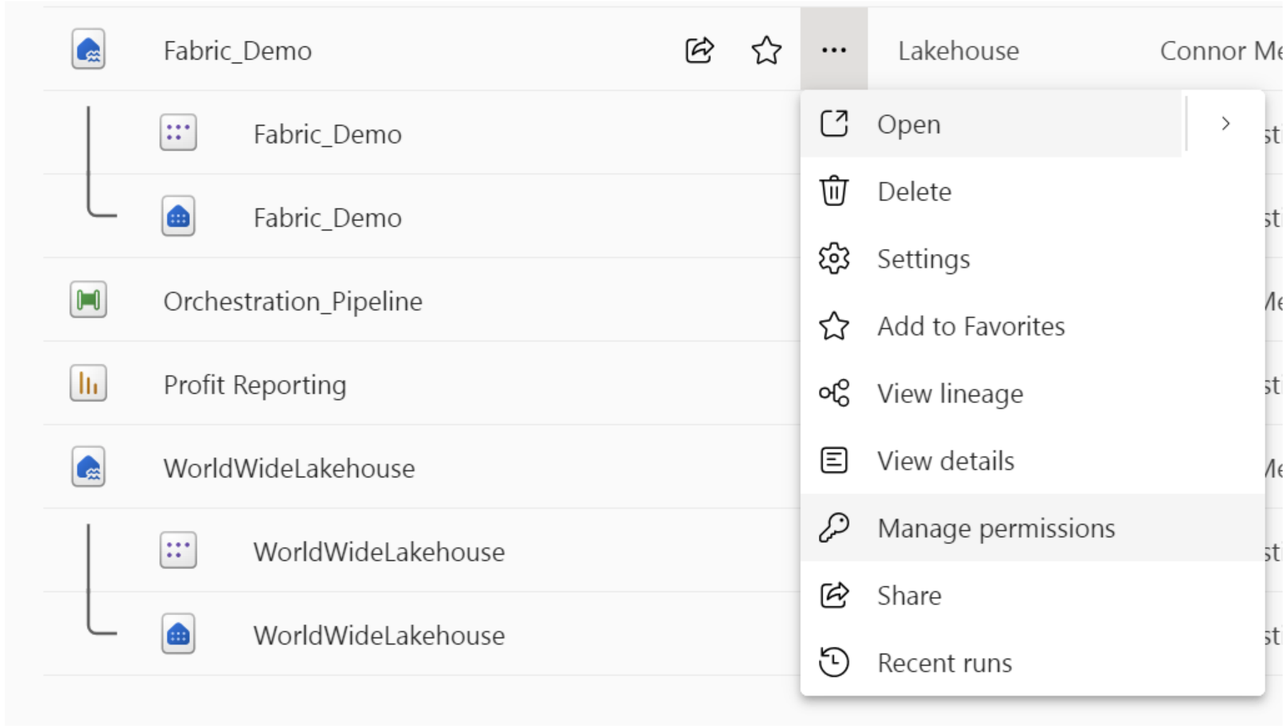
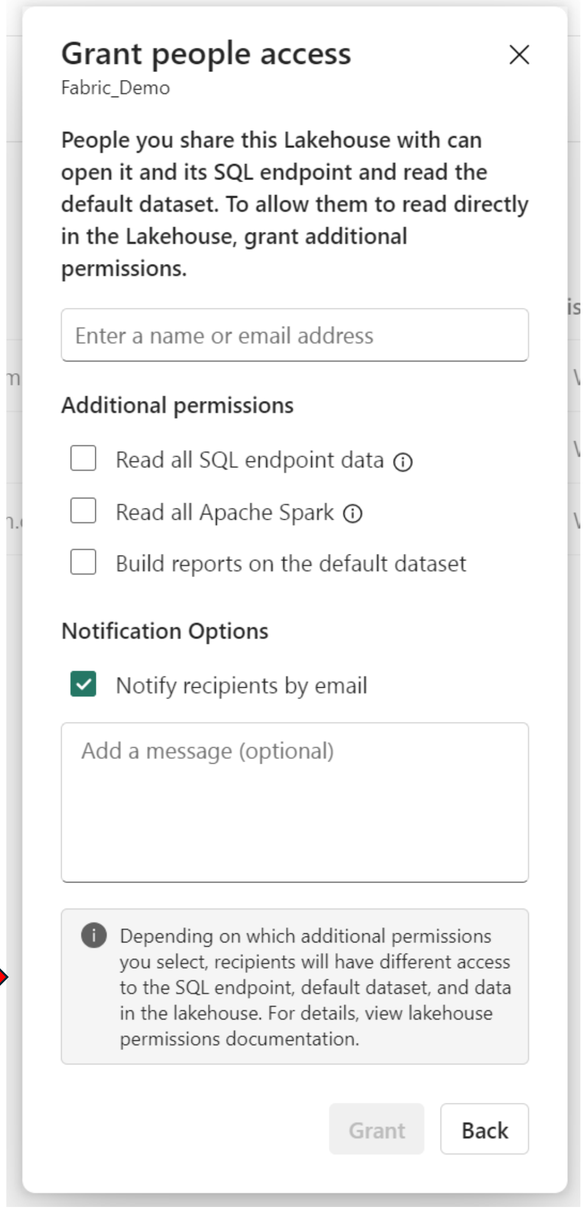
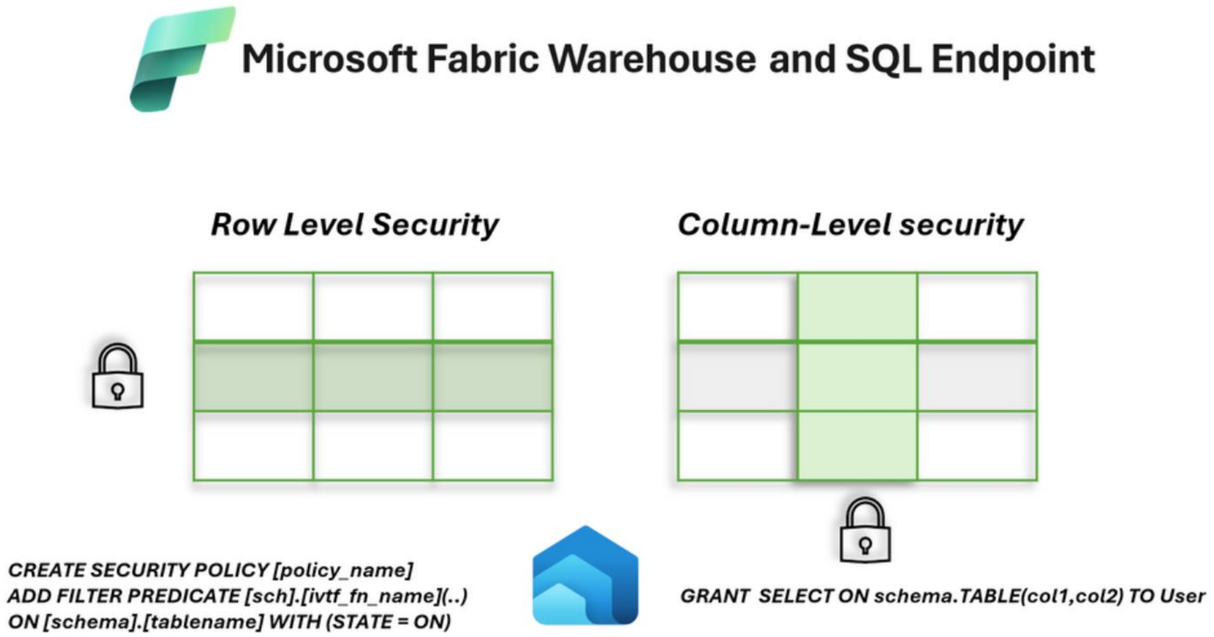
Orchestration_Pipeline
Data pipeline
Connor Merkley
Profit Reporting
Report
Fabric Testing Gro...
11/6/23, 7:48:22 AM
WorldWideLakehouse
Lakehouse
Connor Merkley
WorldWideLakehouse
Semantic model (...
Fabric Testing Gro...
11/6/23, 7:48:22 AM
N/A
WorldWideLakehouse
SQL analytics end...
Fabric Testing Gro...
2/28/24, 3:37:49 PM
N/A
Add people
Fabric Testing Grounds
Admins, members, and contributors have edit and view access. Viewers only have view access. Learn more
Connor Merkley
Enter name or email
Viewer
Add
Member
Contributor
Viewer


Fabric_Demo
Lakehouse
Connor Me
Fabric_Demo
Fabric_Demo
Orchestration_Pipeline
Profit Reporting
WorldWideLakehouse
WorldWideLakehouse
WorldWideLakehouse
Open
Delete
Settings
Add to Favorites
View lineage
View details
Manage permissions
Share
Recent runs


Grant people access
Fabric_Demo
People you share this Lakehouse with can open it and its SQL endpoint and read the default dataset. To allow them to read directly in the Lakehouse, grant additional permissions.
Enter a name or email address
Additional permissions
Read all SQL endpoint data
Read all Apache Spark
Build reports on the default dataset
Notification Options
Notify recipients by email
Add a message (optional)
Depending on which additional permissions you select, recipients will have different access to the SQL endpoint, default dataset, and data in the lakehouse. For details, view lakehouse permissions documentation.
Grant
Back



Granular security

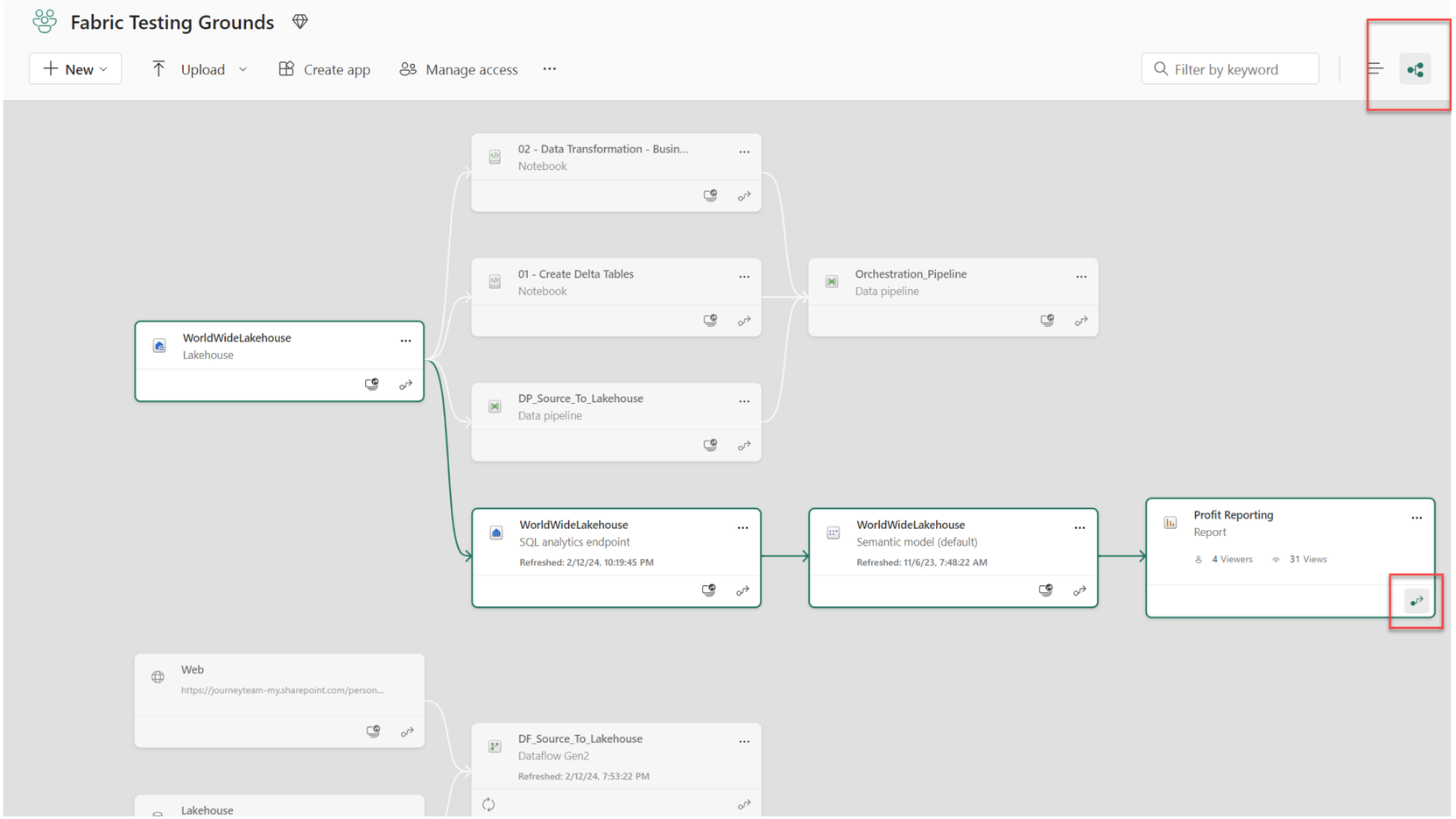
Workspace roles and item permissions provide an easy way to assign coarse permissions to a user for the entire warehouse. However, in some cases, more granular permissions are needed for a user. To achieve this, standard T-SQL constructs can be used to provide specific permissions to users.

Microsoft Fabric data warehousing supports several data protection technologies that administrators can use to protect sensitive data from unauthorized access. By securing or obfuscating data from unauthorized users or roles, these security features can provide data protection in both a Warehouse and SQL analytics endpoint without application changes.

- Object-level security controls access to specific database objects.
- Column-level security prevents unauthorized viewing of columns in tables.
- Row-level security prevents unauthorized viewing of rows in tables, using familiar `WHERE` clause filter predicates.
- Dynamic data masking prevents unauthorized viewing of sensitive data by using masks to prevent access to complete, such as email addresses or numbers.

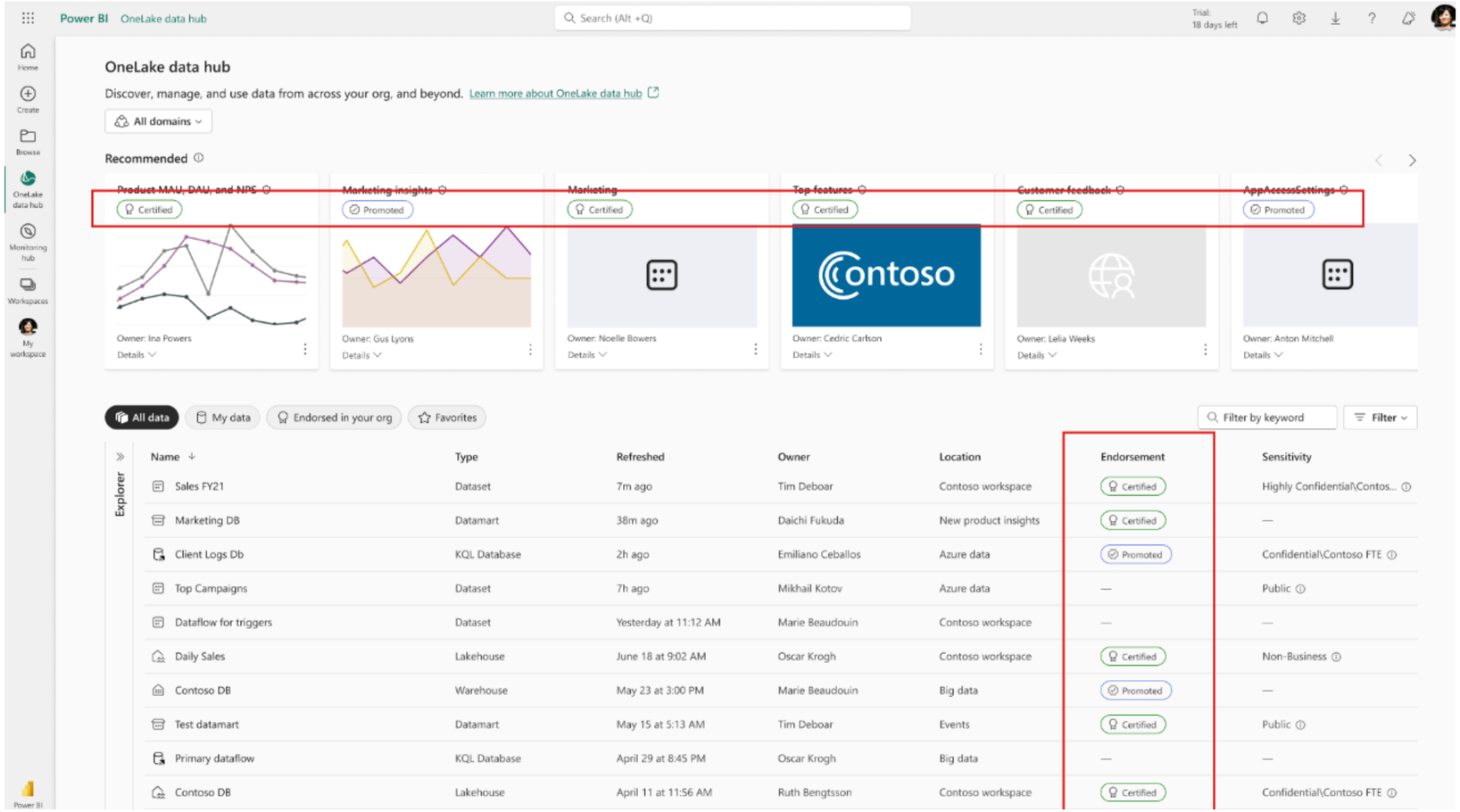
Data Lineage

- Ability to view lineage of all assets in Fabric workspace
  - Able to highlight the lineage of specific assets.
- Able to see upstream and downstream dependencies when making changes.



Data Endorsement

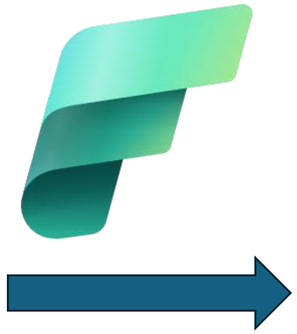
- 2 types of Endorsement is available for data assets.
  - Promotion
  - Certification



Client Success Story

Mid-Large Size Construction Company

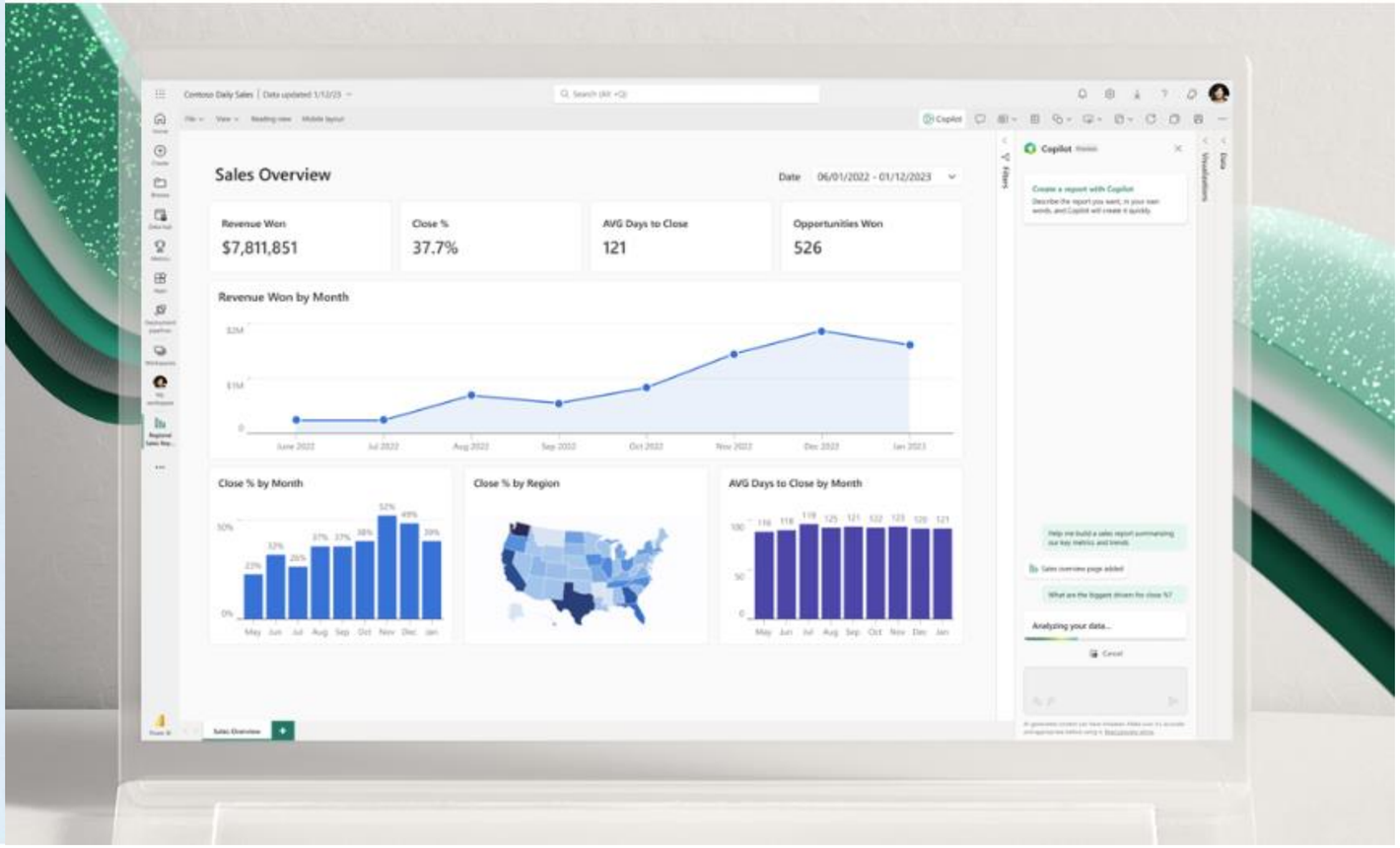
- Spending upwards of $15k/Month for Analytic data needs
- Using a handful of different Azure data tools
- Hard to implement data governance across their data estate



- Both Power BI and Fabric costs included in their premium capacity license - Cost savings up to $10k/month
- Consolidated resources into one workspace
- Data from source to target all handled and stored on the OneLake

Microsoft Fabric meets Copilot

Copilot



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BUSINESS TECHNOLOGY SUMMIT 2024

Questions

We love feedback!

Please complete
the session survey **for an extra giveaway raffle ticket!**

BUSINESS TECHNOLOGY SUMMIT 2024

BUSINESS TECHNOLOGY SUMMIT 2024

Thank You!

Let’s Connect:

Connor Merkley

Brad Soderman

info@journeyteam.com