# MICROSOFT FABRIC

Get started

#### **Summary**

To use Microsoft Fabric to store data and to transform and visualize it

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## Introduction

#### In this demo:

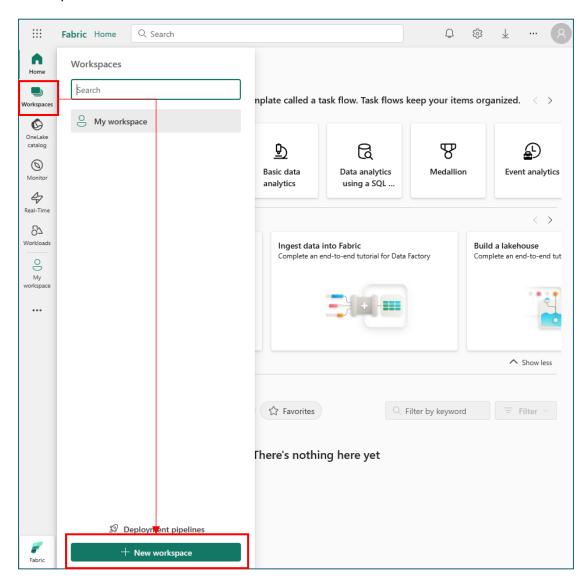
- 1. A new workspace will be created.
- 2. A lakehouse will be created to store files.
- 3. A file will be uploaded to lakehouse and transformed into table.
- 4. The data will be analyzed and aggregated by SQL query and visual query.
- 5. The data will be visualized in Power BI.

Reference: https://microsoftlearning.github.io/mslearn-

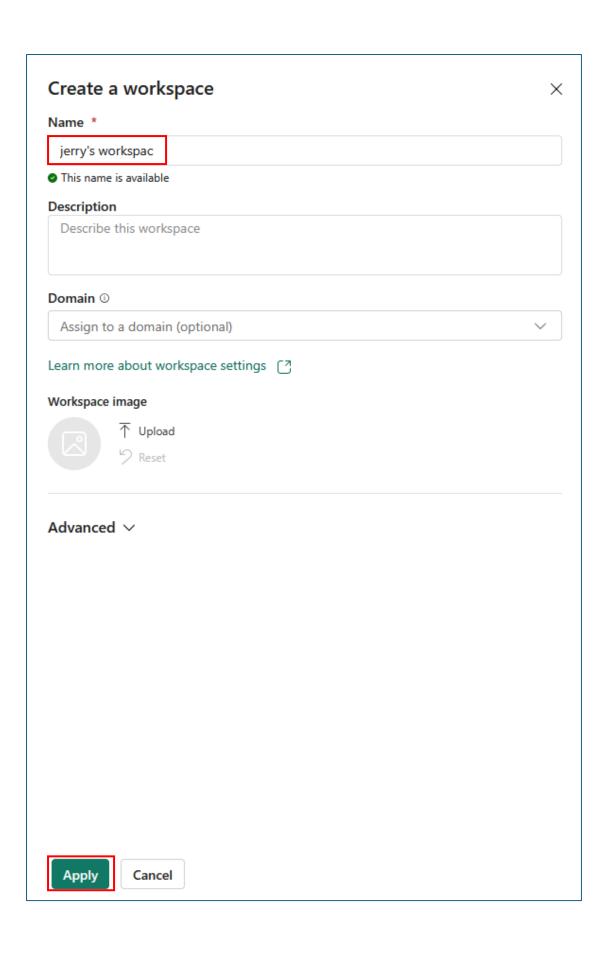
fabric/Instructions/Labs/01-lakehouse.html

# Create a workspace

Go to Fabric home page. On left hand side, click Workspace -> "+ New Workspace"



Give a name to your new workspace

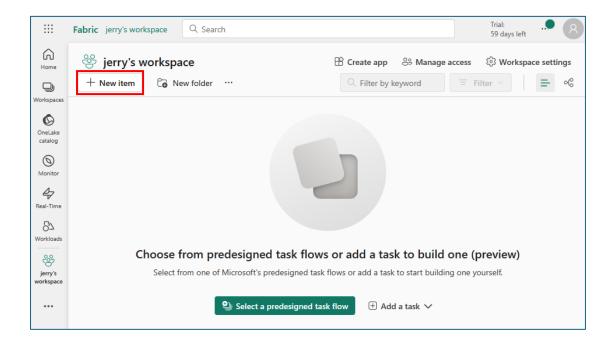


(optional) Check "License mode" under "Advanced". Click "Apply" to create (proceed with trial for 60 days if applicable)

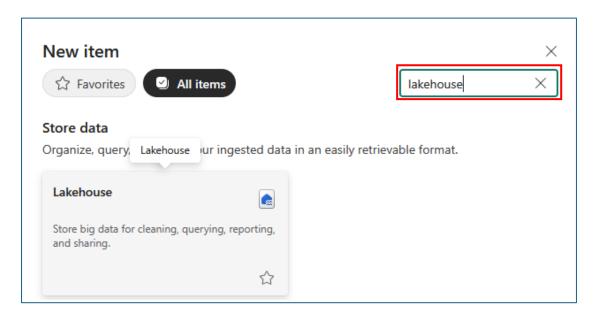
Create a workspace ×		
Adv	anced ^	
Contact list * ①		
f(	fa2 (Owner) ×	
Licen	ise mode ①	
	Pro	
	Select Pro to use basic Power BI features and collaborate on reports, dashboards, and scorecards. To access a Pro workspace, users need Pro per-user licenses. Learn more	
0	Trial	
	Select Trial to assign this workspace to a Fabric trial capacity. A Microsoft Fabric trial capacity allows user to explore the capabilities of Microsoft Fabric like Data Factory, Data Engineering and Real-Time Intelligence among others. Learn more	
0	Premium per-user	
	Select Premium per-user to collaborate using Power BI Premium features, including paginated reports, dataflows, and datamarts. To collaborate and share content in a Premium per-user workspace, users need Premium per-user licenses. Learn more	
0	Premium capacity	
	Select premium capacity if the workspace will be hosted in a premium capacity. When you share, collaborate on, and distribute Power BI and Microsoft Fabric content, users in the viewer role can access this content without needing a Pro or Premium per-user license.  Learn more (?)	
0	Embedded	
	Select embedded if the workspace will be hosted in an Azure embedded capacity. ISVs and developers use Power BI Embedded to embed visuals and analytics in their applications.  Learn more (2)	
$\circ$	Fabric capacity	
	Select Fabric capacity if the workspace will be hosted in a Microsoft Fabric capacity. With Fabric capacities, users can create Microsoft Fabric items and collaborate with others using Fabric features and experiences. Explore new capabilities in Power BI, Data Factory, Data Engineering, and Real-Time Intelligence, among others. Learn more	

# Create a Lakehouse

Go to your new workspace. Click "+ New item"



#### Search for "lakehouse"



You may see these

# Upgrade to a free Microsoft Fabric trial To create a Lakehouse, your workspace jerry's workspace needs to be upgraded to a free Fabric trial capacity. Upgrading requires us to create a free trial capacity for you and assign this workspace to it. Learn more We're preparing a free trial capacity...

# Successfully upgraded to a free Microsoft Fabric trial

×

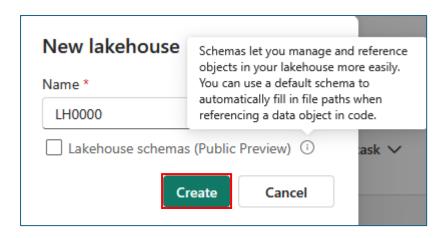
We've upgraded the workspace jerry's workspace to a free Fabric trial capacity. You can create and work with any new item types available in this workspace now. Other users can also assign their workspaces to this capacity.

Learn more [2]

- Prepared a free trial capacity.
- Assigned this workspace to the prepared trial capacity.
- Finished the upgrade now.

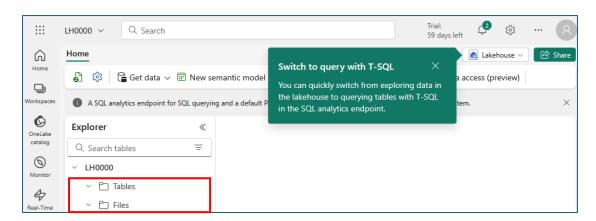
ОК

Skip default schema and click "Create"



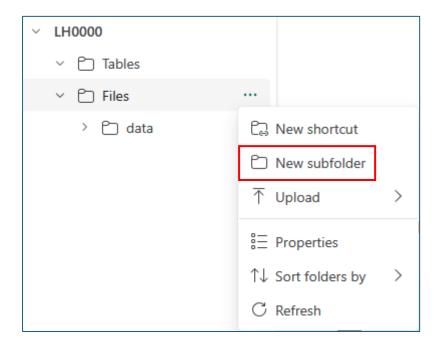
Tables: query-able using SQL

Files: not associated with managed delta table (can contain shortcuts to external files)

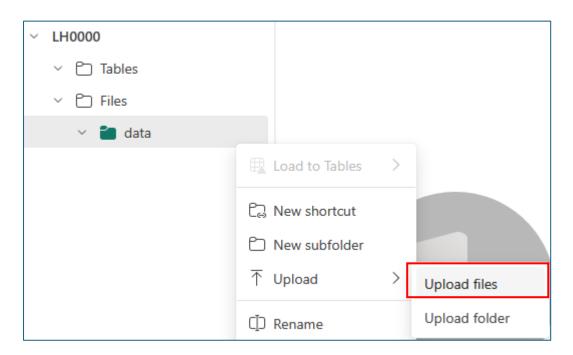


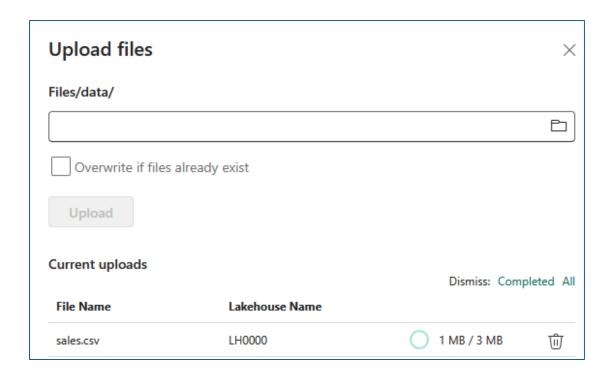
# Upload a file

Create a subfolder "data" under "Files"

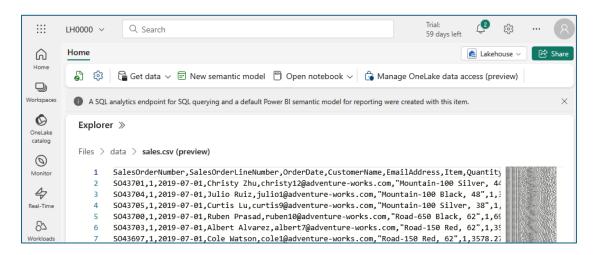


#### Upload a file to the data subfolder



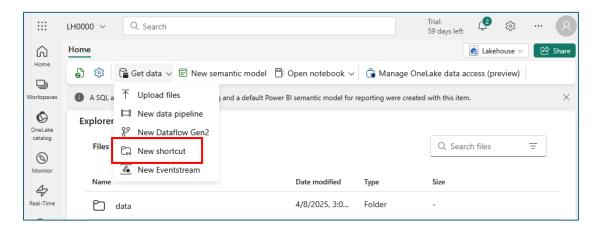


#### Preview the data

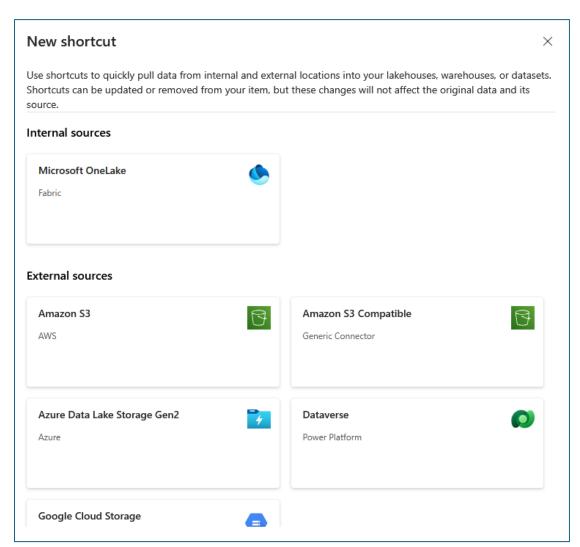


# Navigate shortcut

#### Get data -> New shortcut

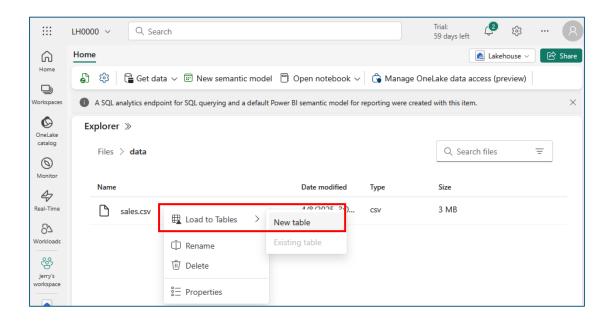


#### Options available:

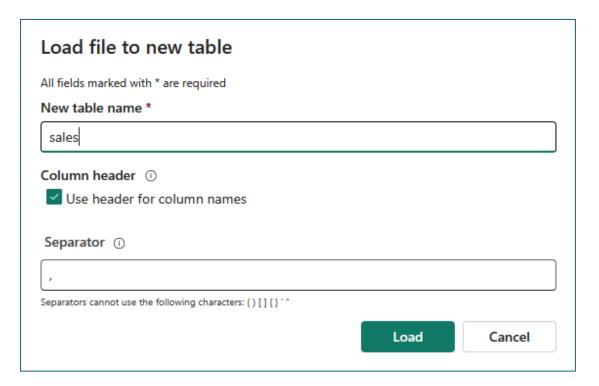


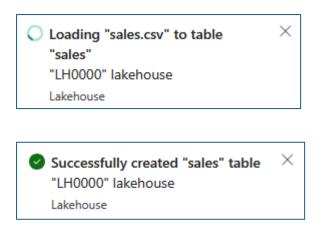
## Load file data into a table

Go back to the uploaded file, right-click and choose "Load to Tables" -> "New table"

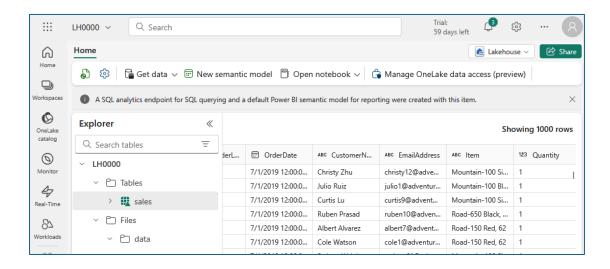


#### Click "Load" to create

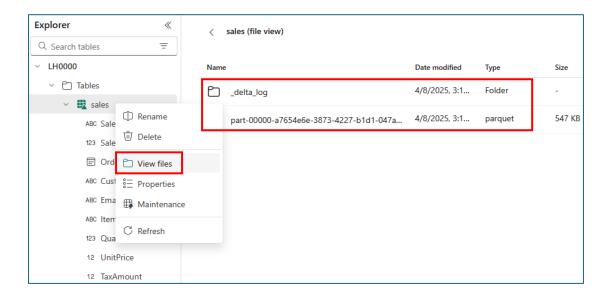




Navigate to <your lakehouse name> -> Tables -> sales to preview the data

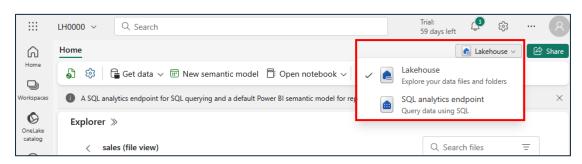


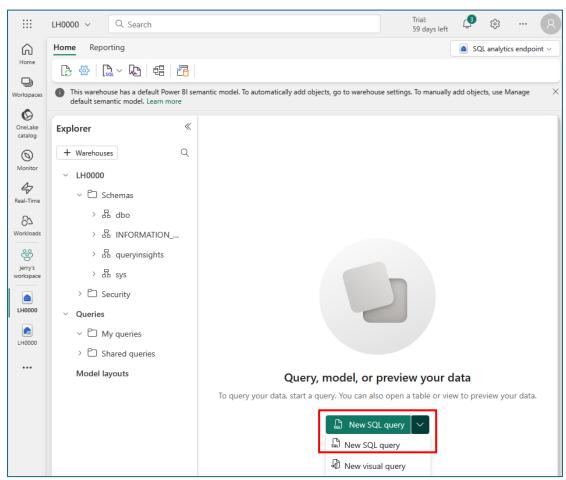
Go into "View files" to inspect the underlying files for the table

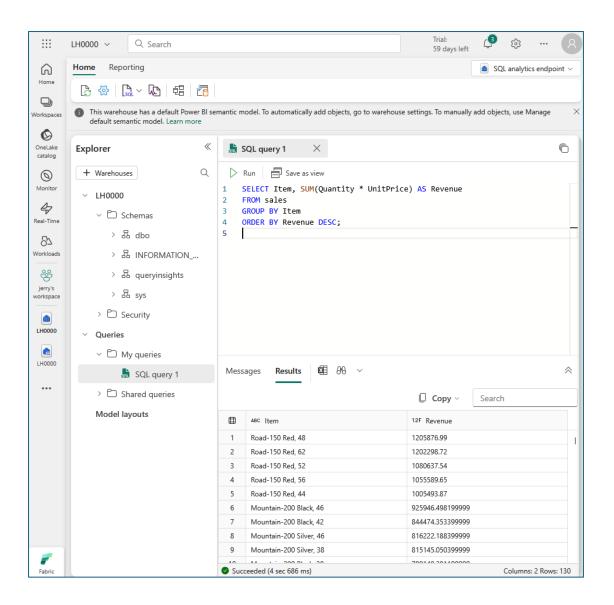


# Use SQL to query tables

Switch to SQL analytics endpoint at top right corner





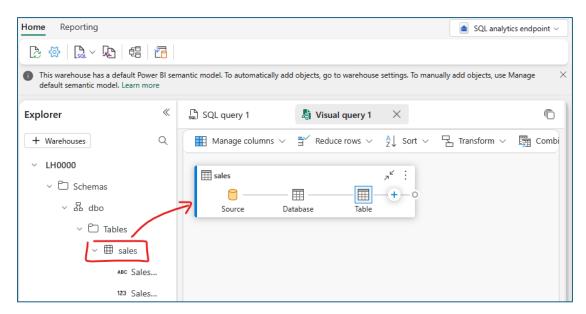


# Create a visual query

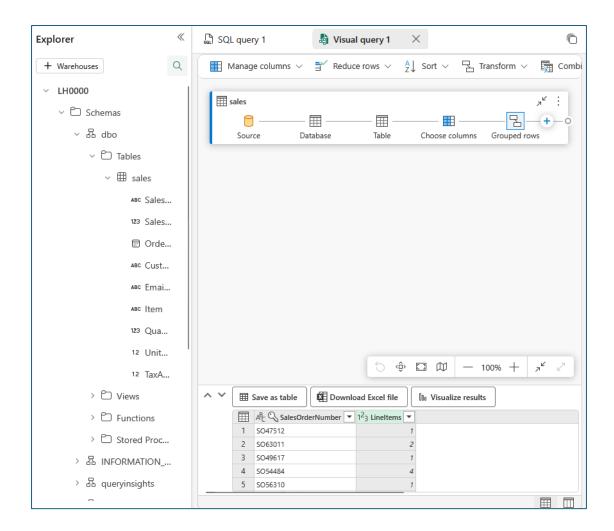
Click "New visual query" on top



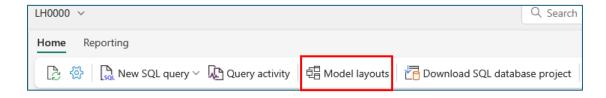
Drag the sales table to the canvas



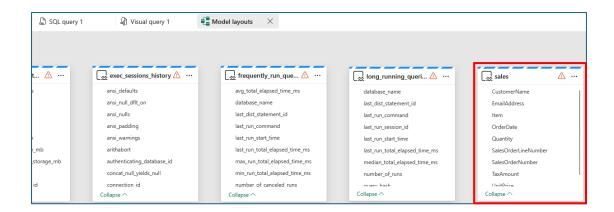
Use "Mange columns" to select columns, use "Transform" -> "Group by" to aggregate values



#### Choose "Model layouts" on top

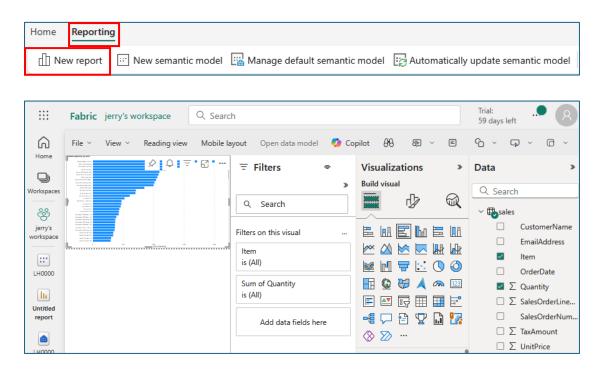


Ignore other tables automatically created by Fabric

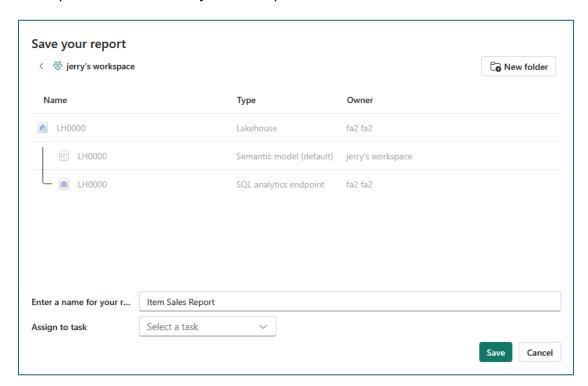


# Create a report

On top, select Reporting -> New report to bring up Power BI

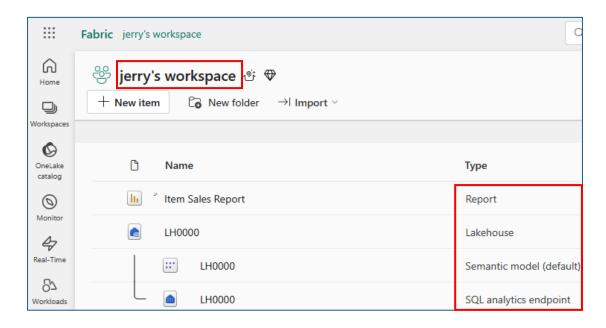


The report can be saved in your workspace

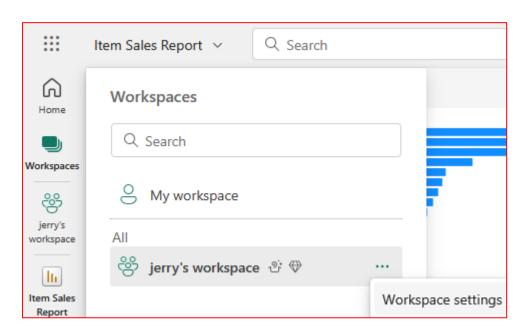


# Clean up resources

Items created so far



Go to Workspace settings of your created workspace



Click "Remove this workspace", click "Delete" to confirm

