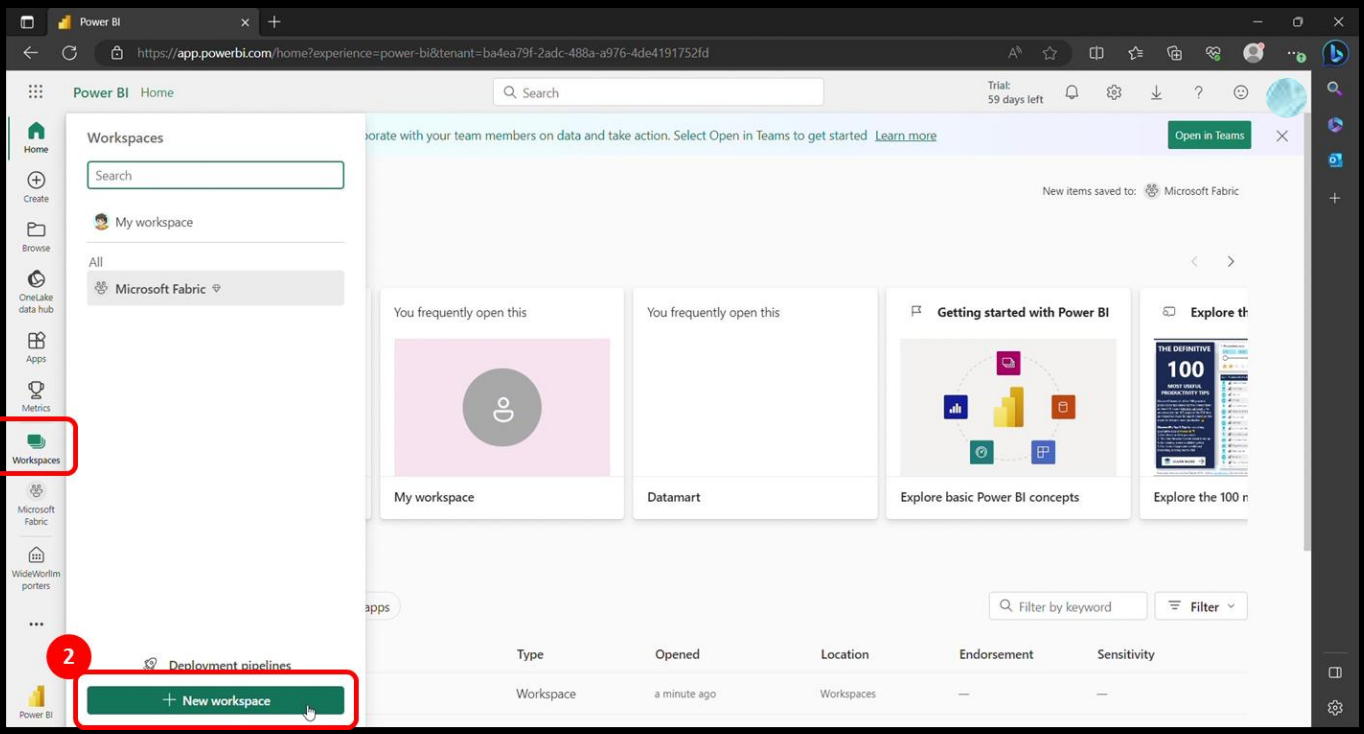
CREATE DATA WAREHOUSE IN MICROSOFT FABRIC

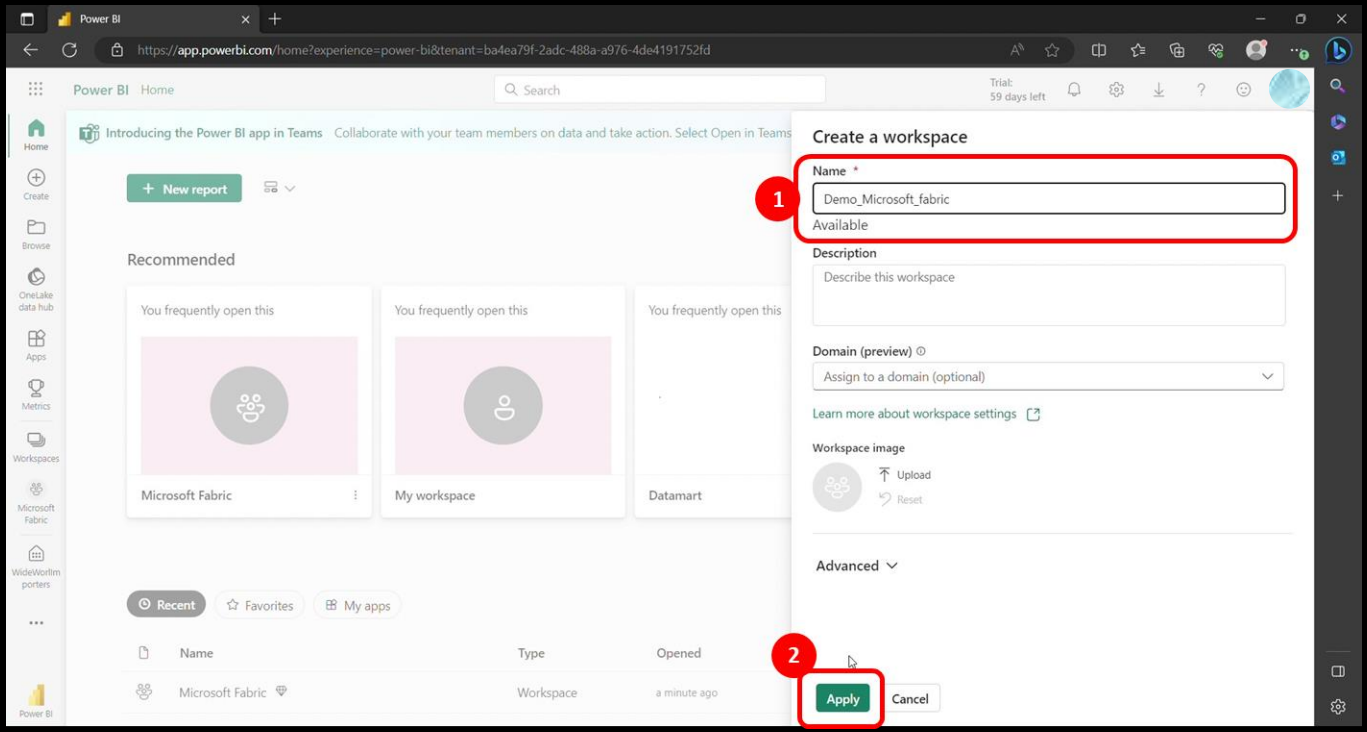
By Juffnee K.

CREATE NEW WORKSPACE

In the initial steps of getting started with Microsoft Fabric, we begin by creating a workspace.



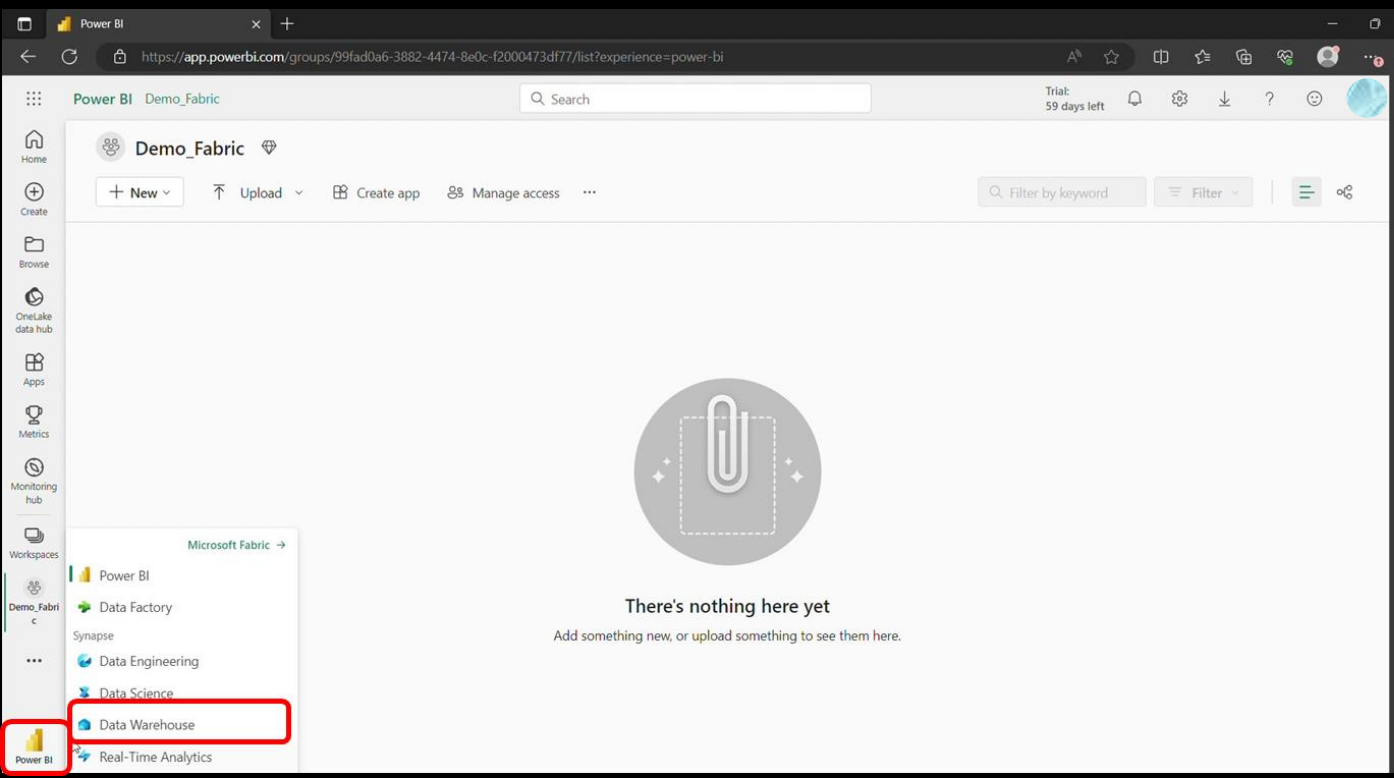
- Click on **"Workspace"** then click **"New workspace".**



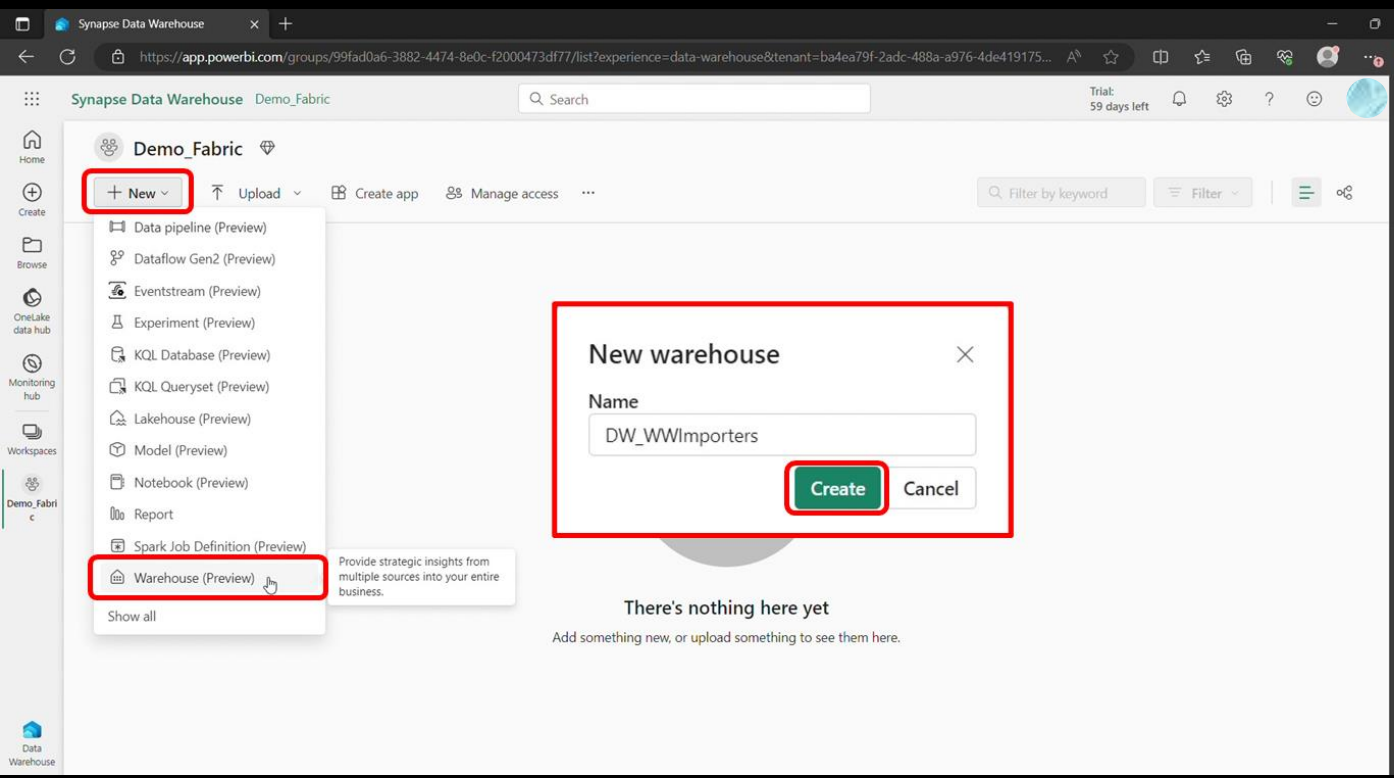
- Name the workspace, then click **"Apply ".**

CREATE DATA WAREHOUSE

Let's continue by creating a Data Warehouse on Microsoft Fabric, here are the steps:



- Click on the Power BI icon, and then select "Data Warehouse"

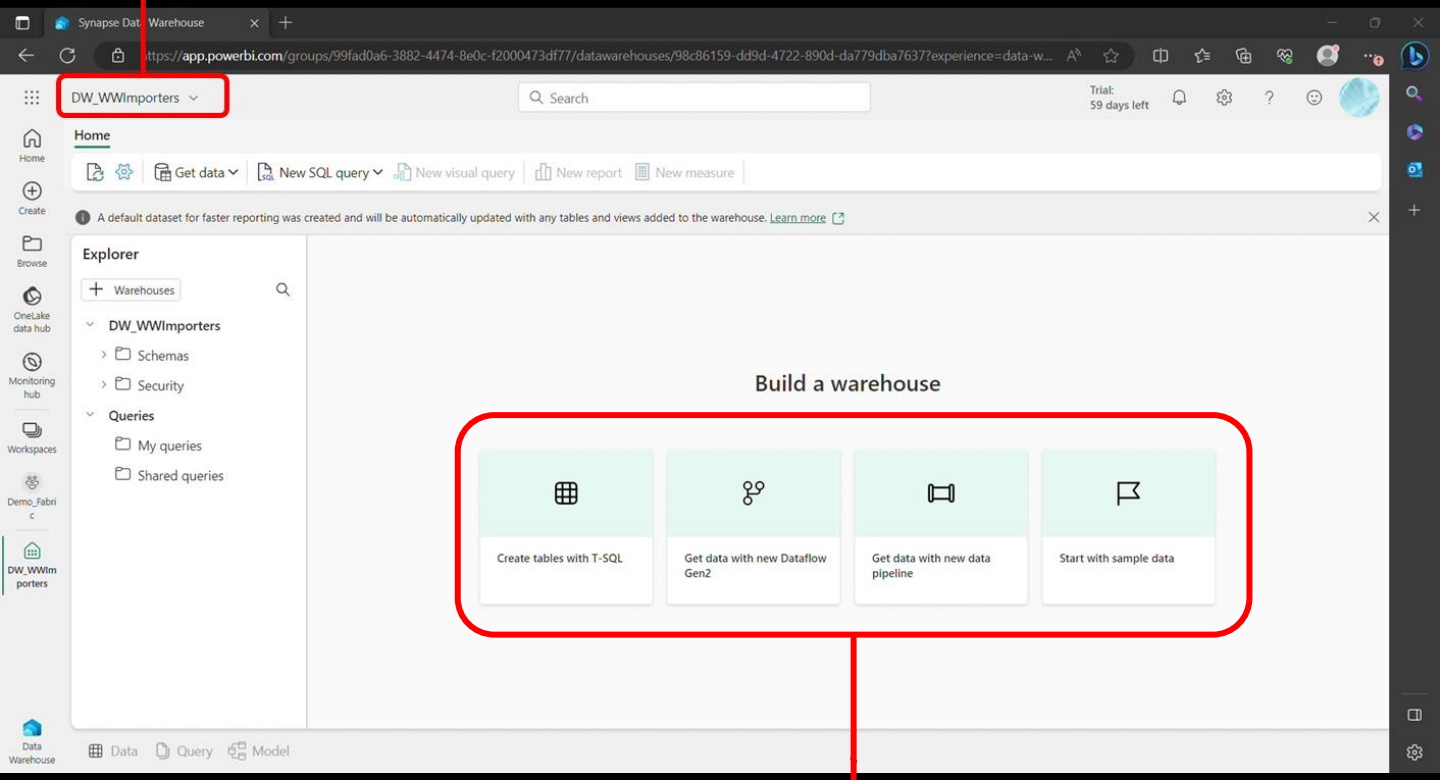


- Click on **+New** and then click **Warehouse**
- Name the warehouse, and click **Create**

CREATE DATA WAREHOUSE

The **Data Warehouse** Window that has been created.

This is name of Warehouse



This is the method for data ingestion into your Data Warehouse

Ingest data into your Warehouse

For the next step, which is to ingest data into the Data Warehouse, you can follow these steps:

1. **Using Data Factory in Microsoft Fabric :**
   - Within your Data Factory in Microsoft Fabric , create a new pipeline.
   - Add activities to the pipeline to specify the data sources you want to ingest from and the destination, which is your Data Warehouse.
   - Configure the data movement activities to copy, transform, or load data into the Data Warehouse.
   - Set up schedules or triggers for the pipeline to run the data ingestion process automatically, or you can manually trigger it.

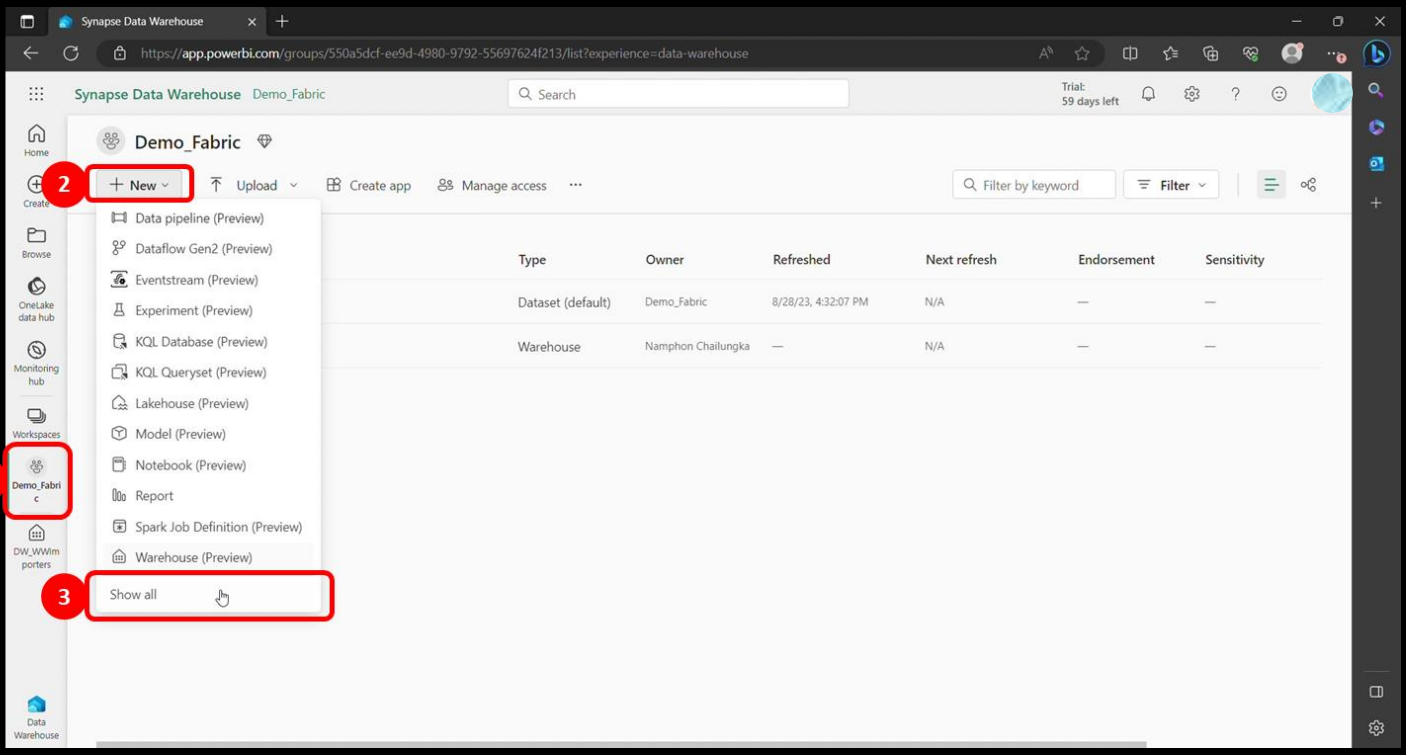
2. **Using Dataflow Gen2 (Like Power Query in Power BI):**
   - Create a new dataflow Gen2 in Microsoft Fabric .
   - In the dataflow, use Power Query to connect to your data sources and define data transformations.
   - Load the transformed data into your Data Warehouse as a destination using Power Query.

3. **Using T-SQL:**
   - Write T-SQL scripts to insert, update, or import data directly into your Data Warehouse.
   - Use SQL Server Management Studio or another SQL client to execute your T-SQL scripts against the Data Warehouse.

The specific steps and tools you use will depend on the method you choose and the nature of your data sources. The goal is to move and transform your data into the Data Warehouse for analysis and reporting.

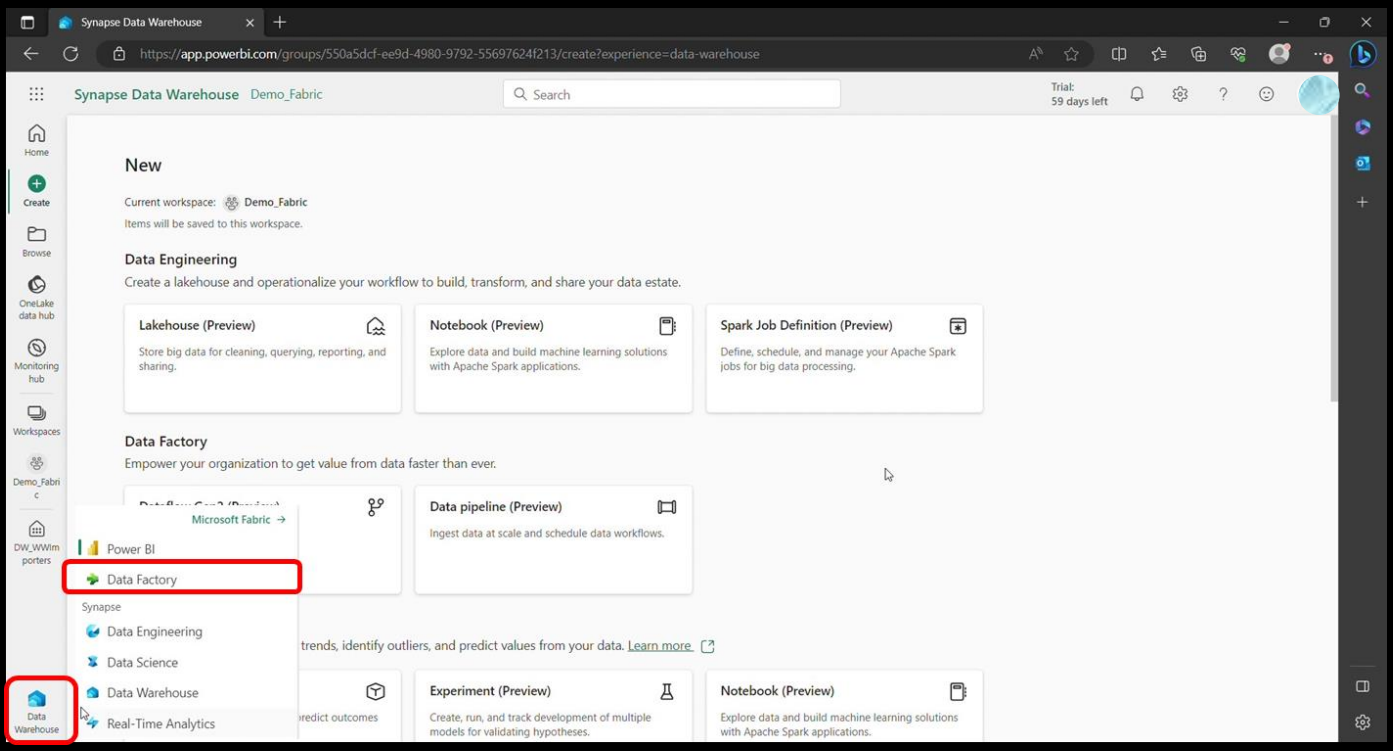
In this context, we will perform data ingestion using Data Factory in Microsoft Fabric. **See in next page**

INGEST DATA INTO YOUR WAREHOUSE USING DATA FACTORY



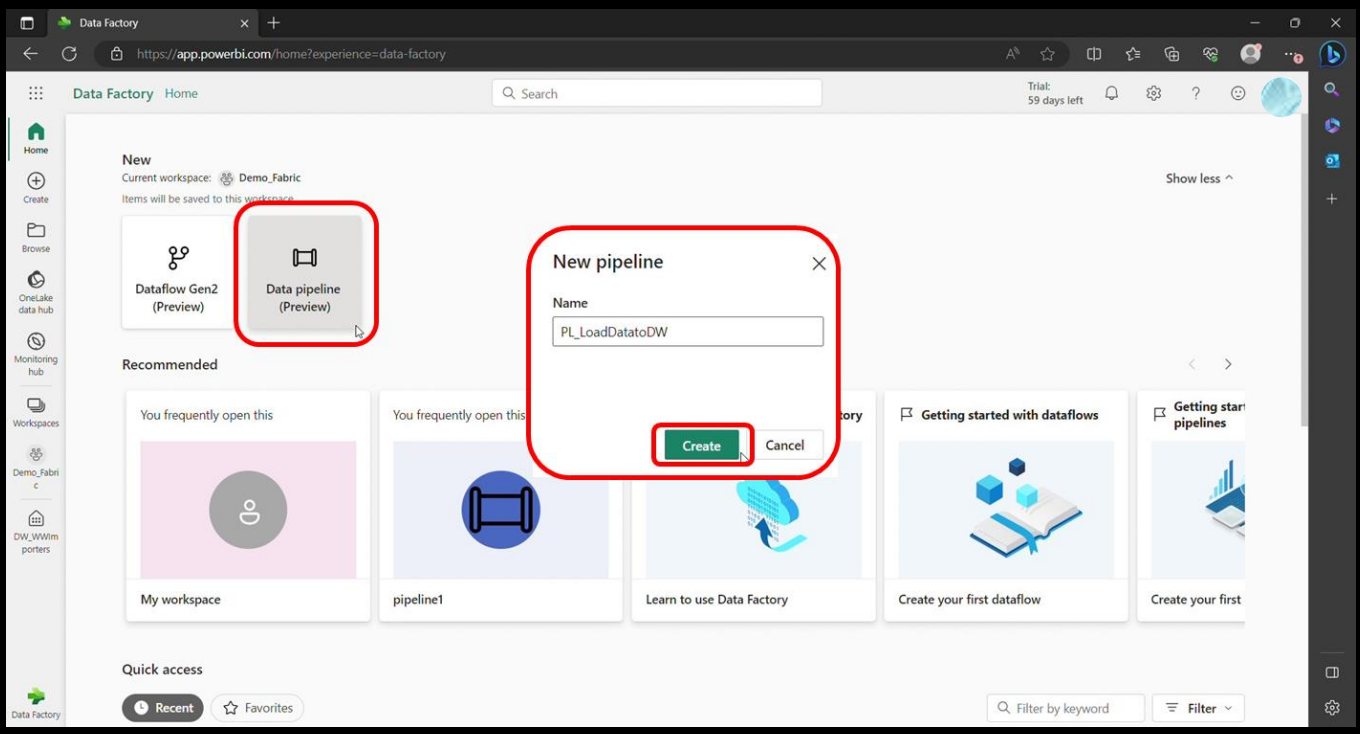
- Click on your created Workspace, then click "+New," and select "Show all."

This will display a window with all available functions in Microsoft Fabric. You can choose different functions through this page or click on the icon at the bottom left to select.



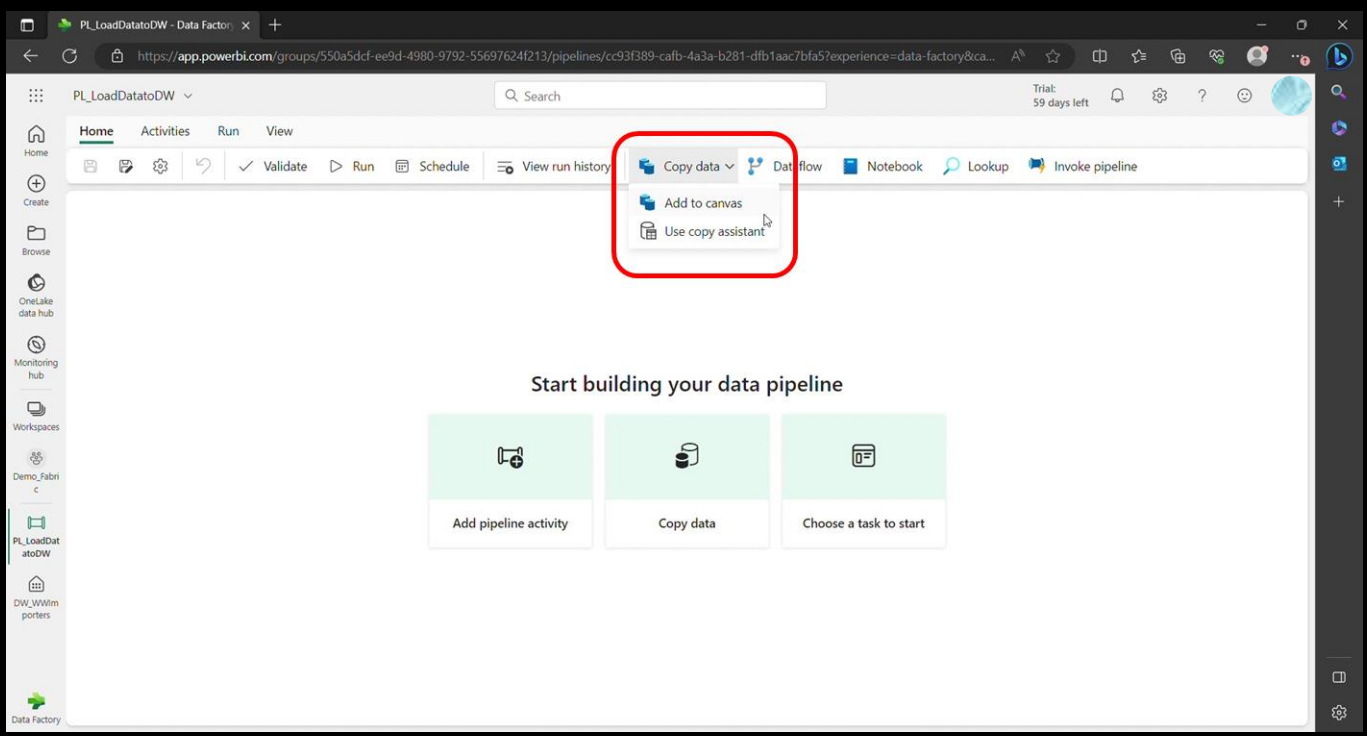
- Click on the Data Warehouse icon and then select Data Factory.

INGEST DATA INTO YOUR WAREHOUSE USING DATA FACTORY



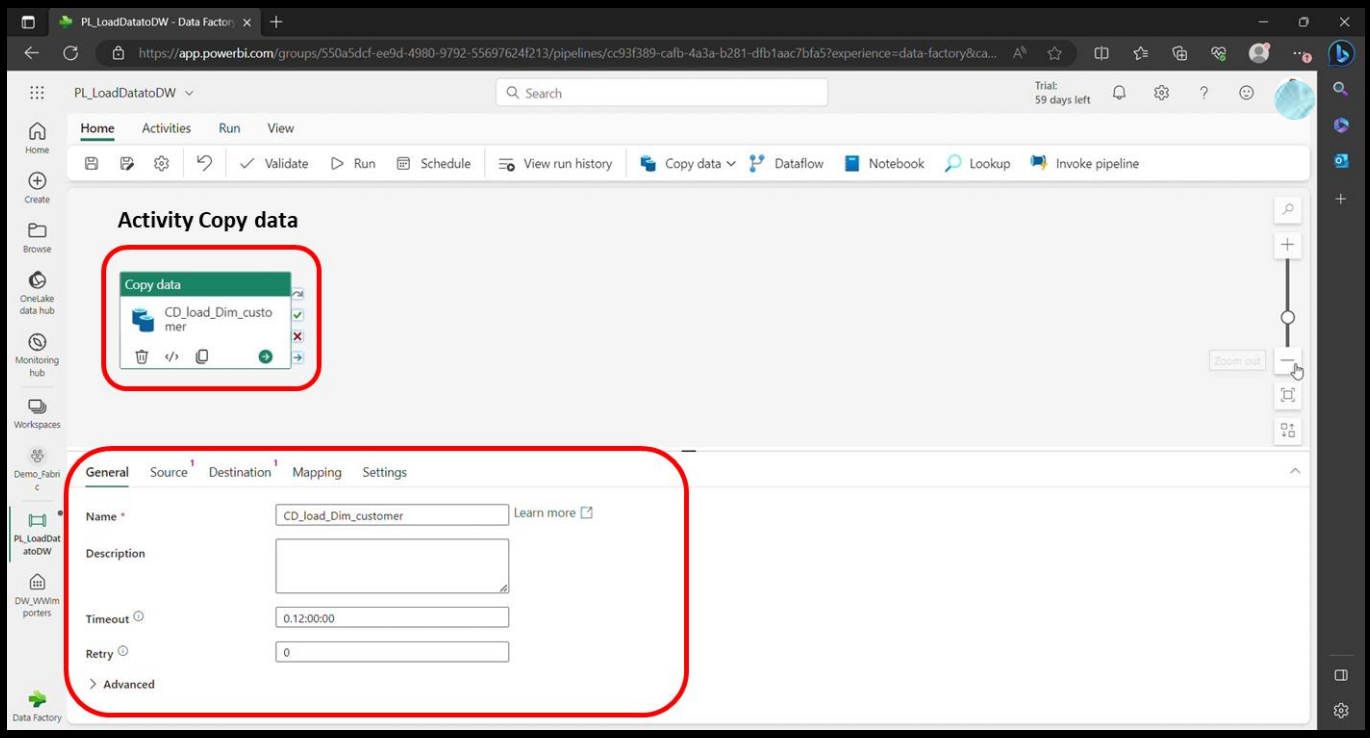
- Click on Data Pipeline, provide a name, and click "Create."

The Data Pipeline window will appear.

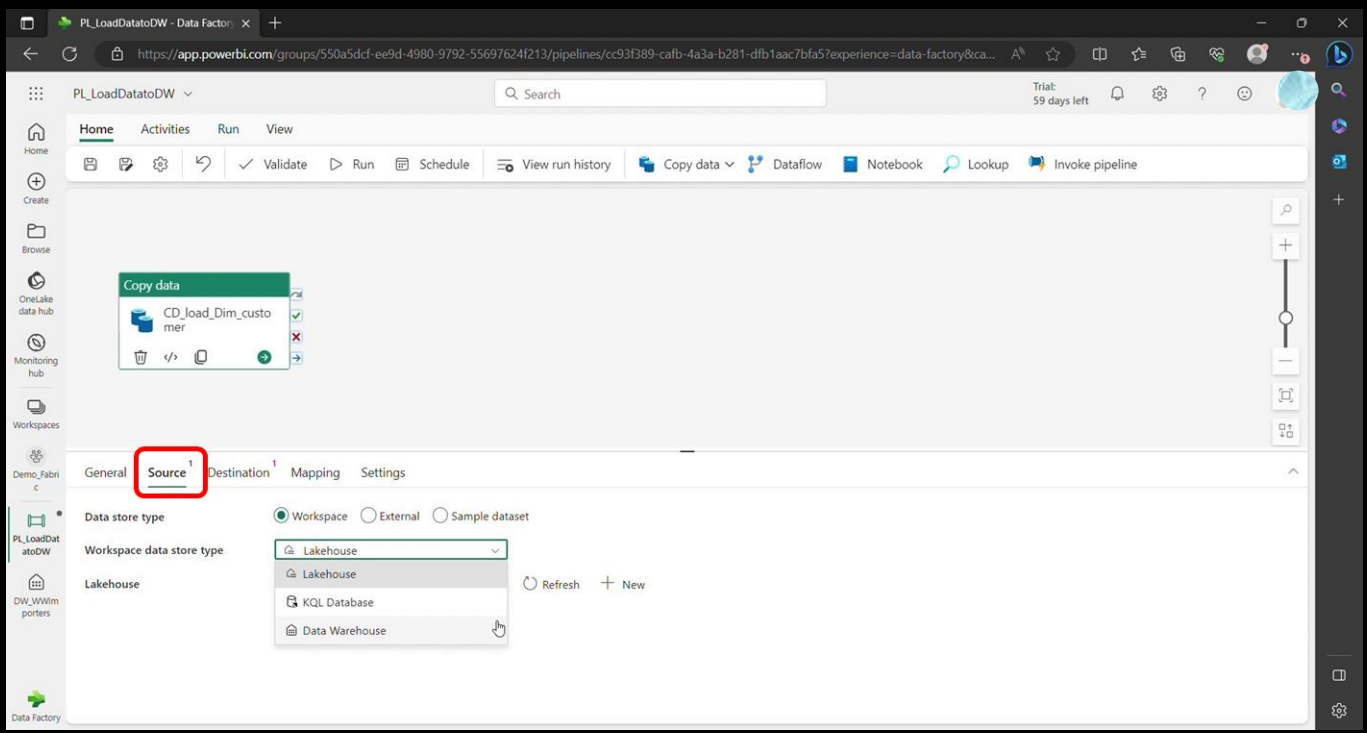


- Click on "Copy data" and then click "Add to Canvas."

INGEST DATA INTO YOUR WAREHOUSE USING DATA FACTORY

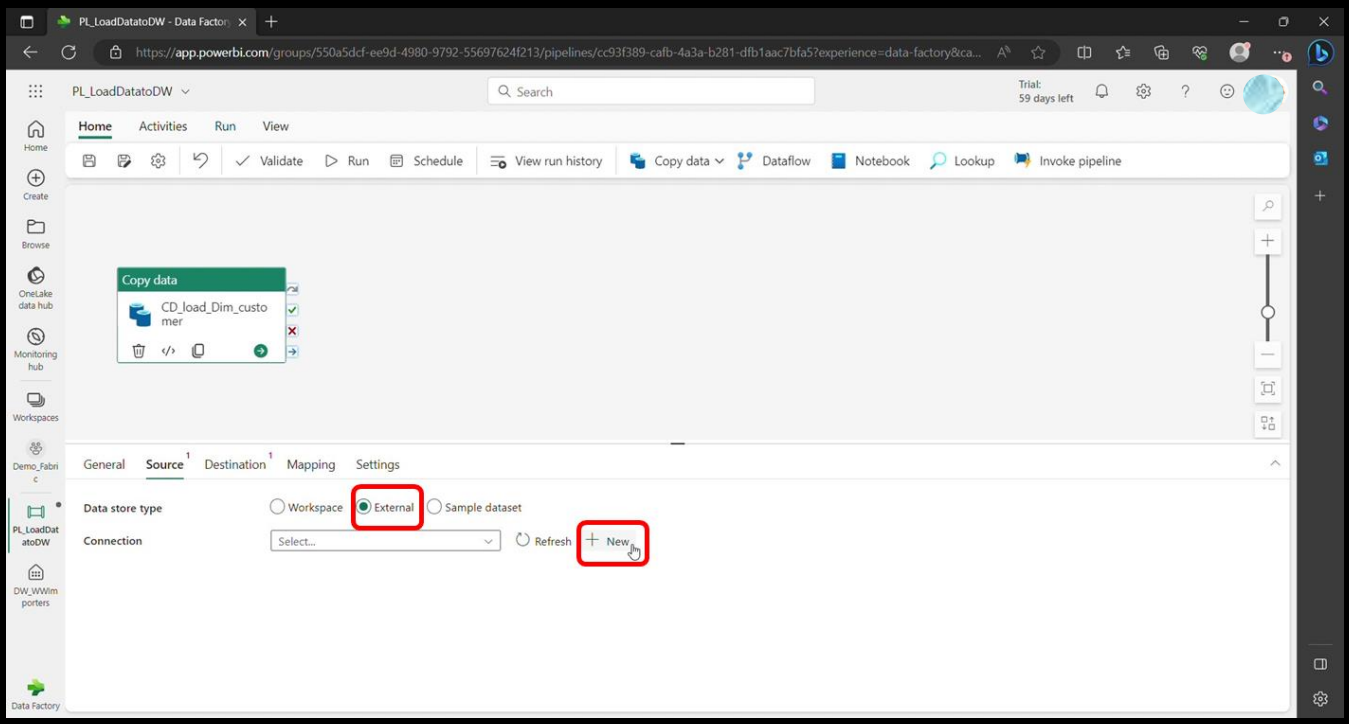


- Name the activity "Copy data = CD_load_Dim_customer."

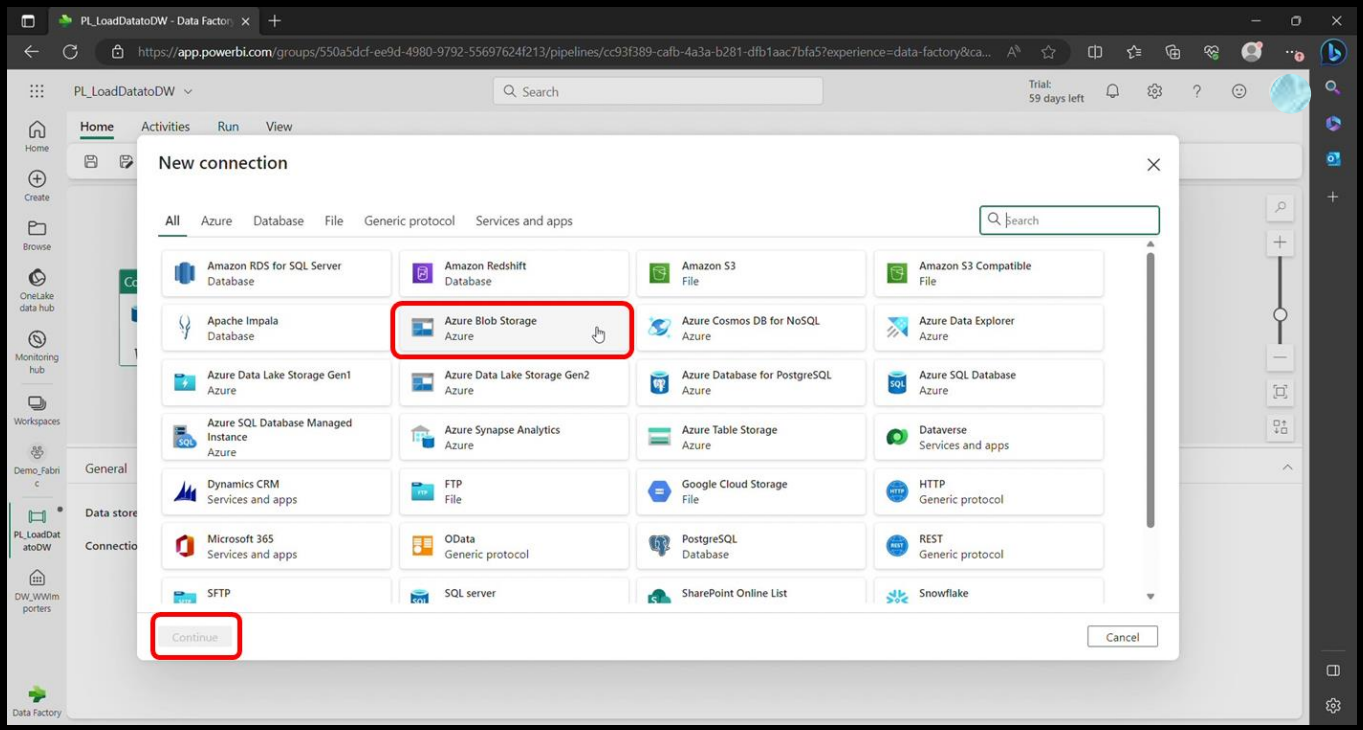


- Source refers to the data origin, which can be selected from within the Workspace, External, or Sample dataset.

INGEST DATA INTO YOUR WAREHOUSE USING DATA FACTORY

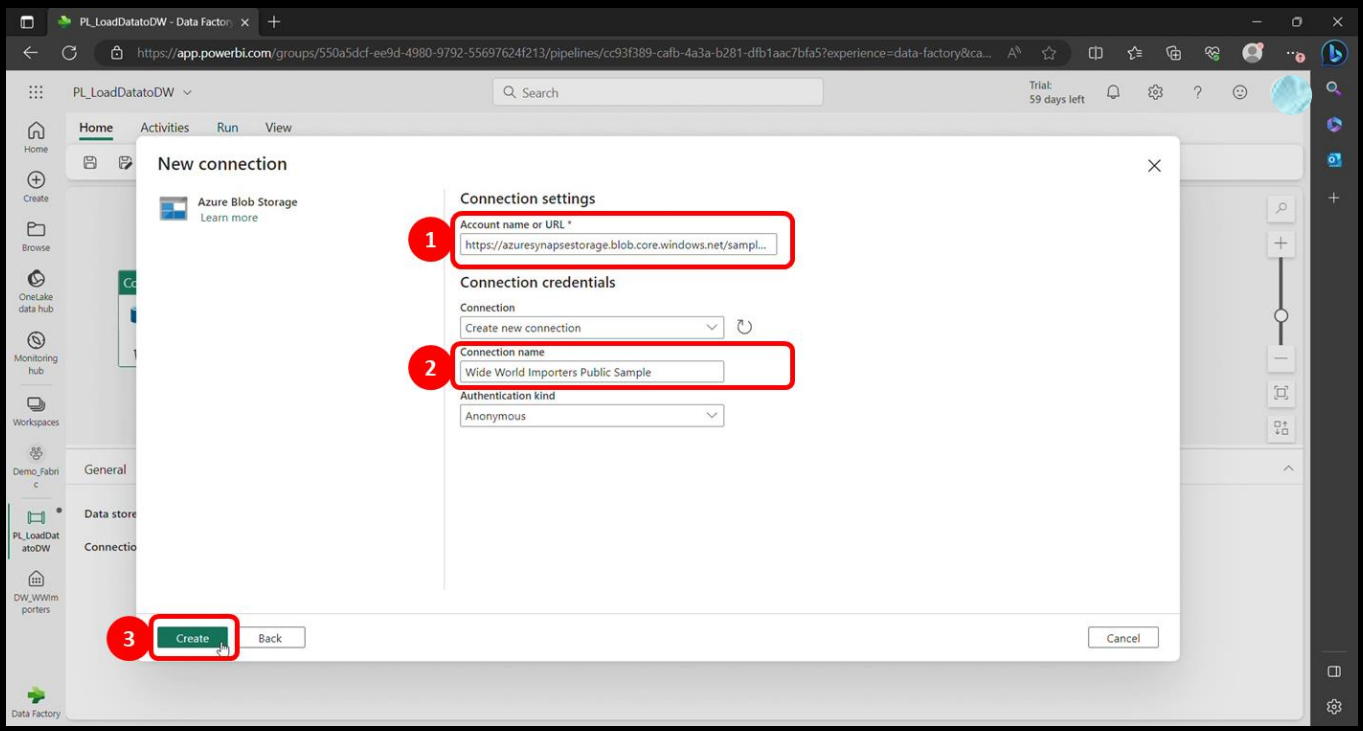


- In this context, we will choose External as the source, then click "+New."

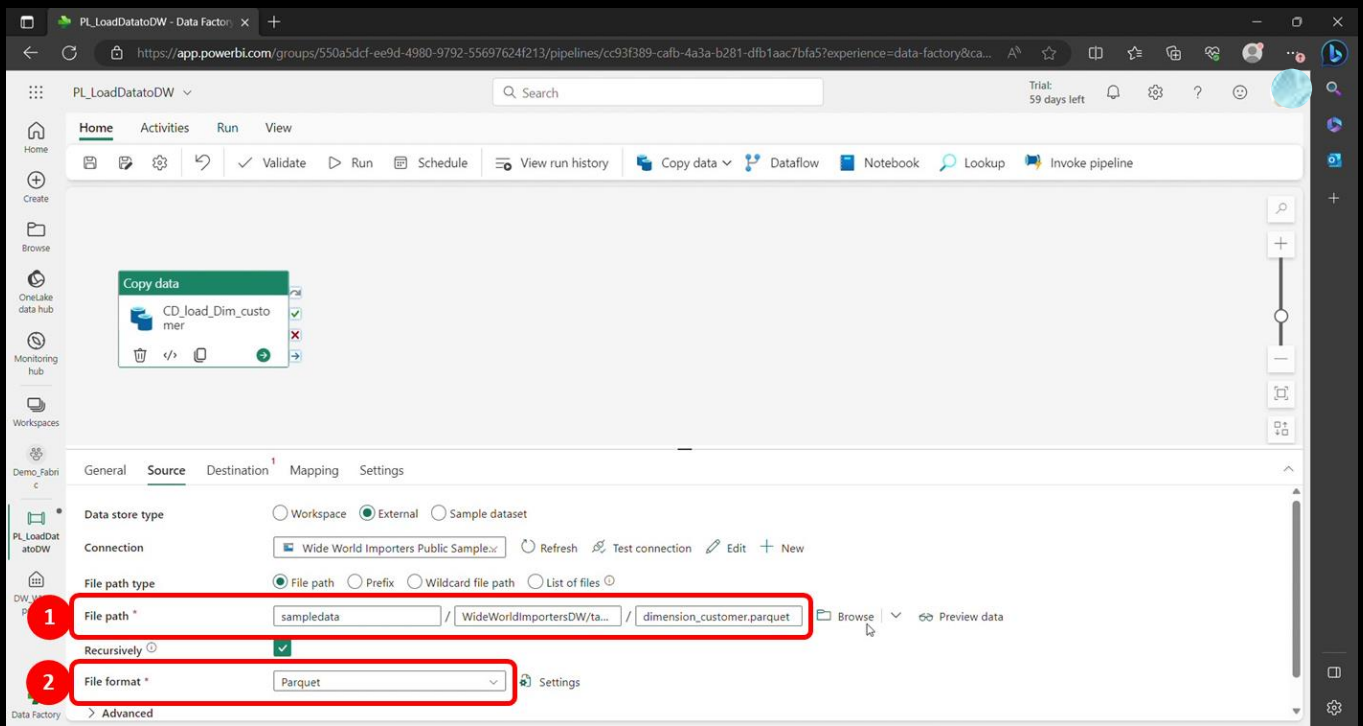


- We will import data from Azure Blob Storage, and to proceed, select "Continue."

INGEST DATA INTO YOUR WAREHOUSE USING DATA FACTORY

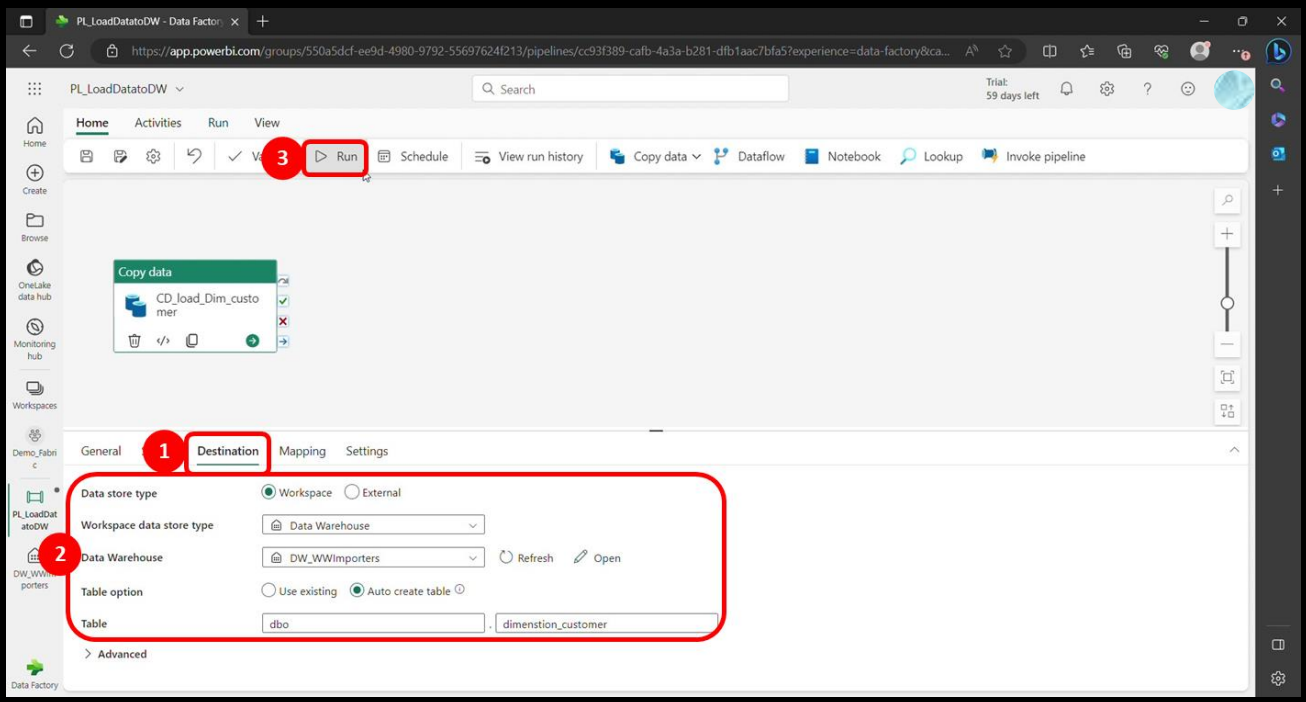


- Provide the following information:
  - ✓ Account name or URL: https://azuresynapsestorage.blob.core.windows.net/sampledata/
  - ✓ Connection name: Wide World Importers Public Sample
  - ✓ Click "Create."

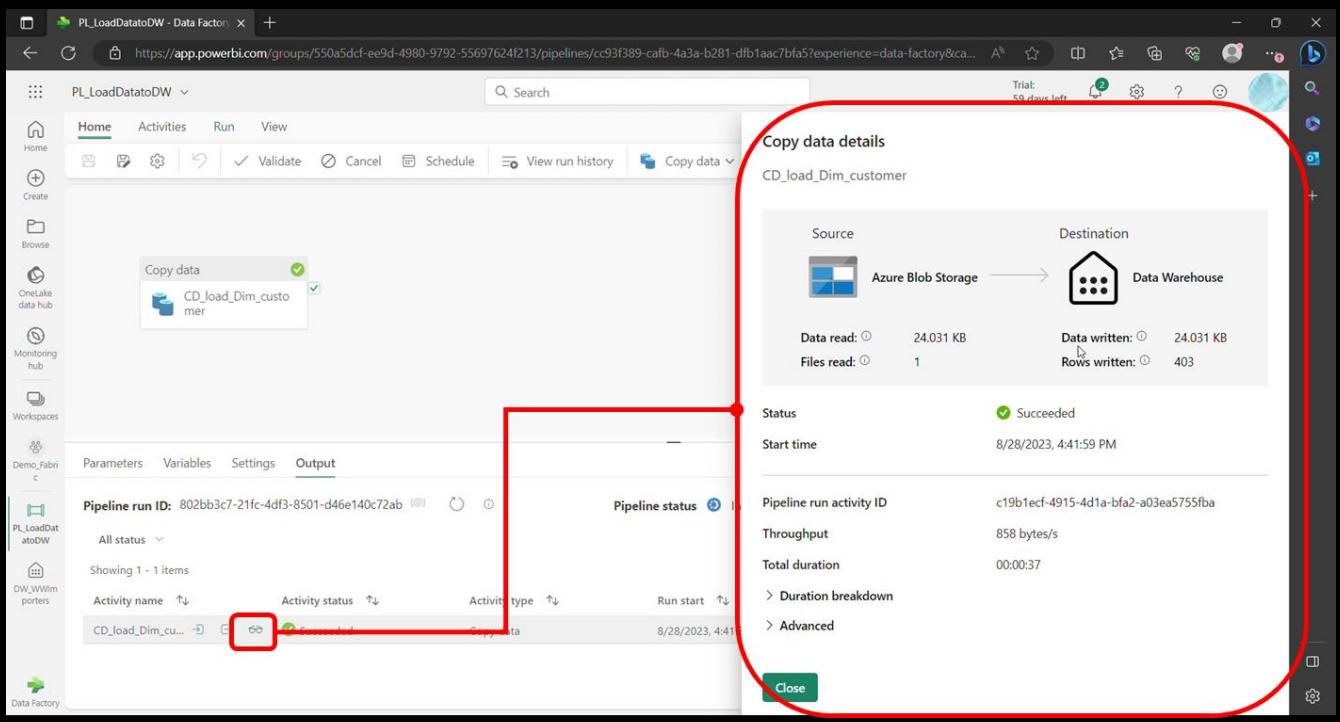


- File path text boxes :
  - ✓ Container: sampledata
  - ✓ File path - Directory: WideWorldImportersDW/tables
  - ✓ File path - File name: dimension_customer.parquet
- File format drop down: Parquet

INGEST DATA INTO YOUR WAREHOUSE USING DATA FACTORY

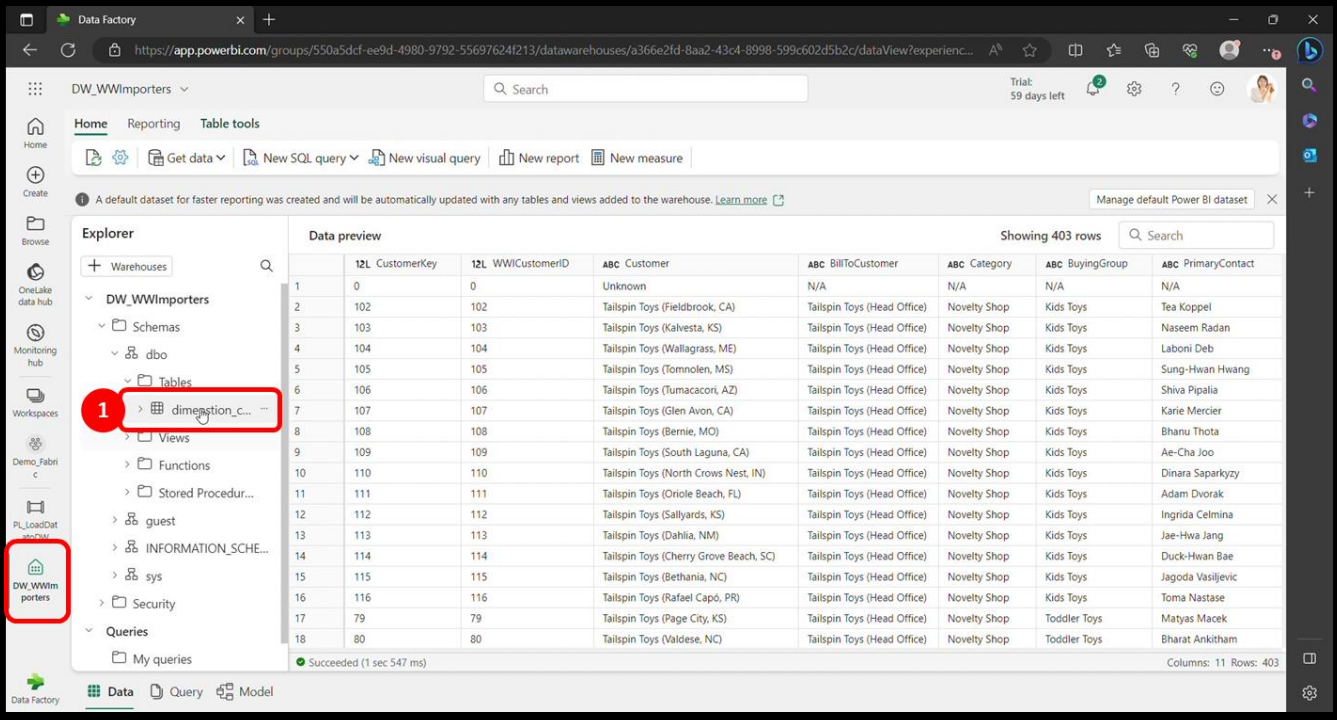


- Click on "Destination."
- Configure the destination settings as follows:
  - i. Data store type: Workspace
  - ii. Workspace data store type: Data Warehouse
  - iii. From the "Data Warehouse" dropdown, select the Data Warehouse you have created.
  - iv. Table option: Auto create table.
  - v. In the "Table settings," enter "dbo" in the first field and "dimension_customer" in the second field.
- Click "Run" to initiate the data ingestion process



- When you click the icon  , it will display information on the right-hand side.

INGEST DATA INTO YOUR WAREHOUSE USING DATA FACTORY



	CustomerKey	WWICustomerID	Customer	BillToCustomer	Category	BuyingGroup	PrimaryContact
1	0	0	Unknown	N/A	N/A	N/A	N/A
2	102	102	Tailspin Toys (Fieldbrook, CA)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Tea Koppel
3	103	103	Tailspin Toys (Kalvesta, KS)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Naseem Radan
4	104	104	Tailspin Toys (Wallagrass, ME)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Laboni Deb
5	105	105	Tailspin Toys (Tomnolen, MS)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Sung-Hwan Hwang
6	106	106	Tailspin Toys (Tumacacori, AZ)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Shiva Pipalia
7	107	107	Tailspin Toys (Glen Avon, CA)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Karie Mercier
8	108	108	Tailspin Toys (Bernie, MO)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Bhanu Thota
9	109	109	Tailspin Toys (South Laguna, CA)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Ae-Cha Joo
10	110	110	Tailspin Toys (North Crows Nest, IN)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Dinara Saparkyzy
11	111	111	Tailspin Toys (Oriole Beach, FL)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Adam Dvorak
12	112	112	Tailspin Toys (Sallyards, KS)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Ingrida Celmina
13	113	113	Tailspin Toys (Dahlia, NM)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Jae-Hwa Jang
14	114	114	Tailspin Toys (Cherry Grove Beach, SC)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Duck-Hwan Bae
15	115	115	Tailspin Toys (Bethania, NC)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Jagoda Vasiljevic
16	116	116	Tailspin Toys (Rafael Capó, PR)	Tailspin Toys (Head Office)	Novelty Shop	Kids Toys	Toma Nastase
17	79	79	Tailspin Toys (Page City, KS)	Tailspin Toys (Head Office)	Novelty Shop	Toddler Toys	Matyas Macek
18	80	80	Tailspin Toys (Valdese, NC)	Tailspin Toys (Head Office)	Novelty Shop	Toddler Toys	Bharat Ankitham

- Click on "Data Warehouse" to navigate back to the Data Warehouse page you created.
- Then, the "Dimension_Customer" table will appear. When you click on the "Dimension_Customer" table, it will display information on the right-hand side.

THANK YOU FOR YOUR INTEREST IN THIS CONTENT AND FOR READING UNTIL THE END.