**Fabric Notebook**

A **Fabric Notebook** is a web-based interactive environment in Microsoft Fabric that allows users to write and run code using languages like **Python**, **SQL**, and **Spark** for data exploration, transformation, machine learning, and visualization—integrated seamlessly with One Lake and other Fabric components.

To create notebook 🡪 workspace 🡪 new item 🡪 notebook A screenshot of a computer

Description automatically generatedRename the notebook A screenshot of a computer

Description automatically generated A screenshot of a computer

Description automatically generated  Add **Data Items**:  
Use this option to bring in your data sources (e.g., Lakehouse tables).

 Run **All**:  
Executes all the code cells at once using the **Run All** button.

 Connect:  
Link the notebook to a compute pool (default: **Starter Pool** or a custom one).

 Select **Language**:  
You can choose languages like **PySpark**, **SQL**, etc. (PySpark is used here).

 Write **Code**:  
This is where the actual data processing logic is written.

**Starter Pool in Fabric**

A **Starter Pool** is:

* A **pre-warmed Apache Spark cluster** in Fabric.
* **Instantly available**, so no wait time to spin up compute.

**Key Features:**

* **No Setup Needed** – Comes ready to use.
* **Fast Startup** – Because it's already running, it executes notebooks quicker than cold-start Spark clusters.

Connect 🡪 new standard session A screenshot of a computer

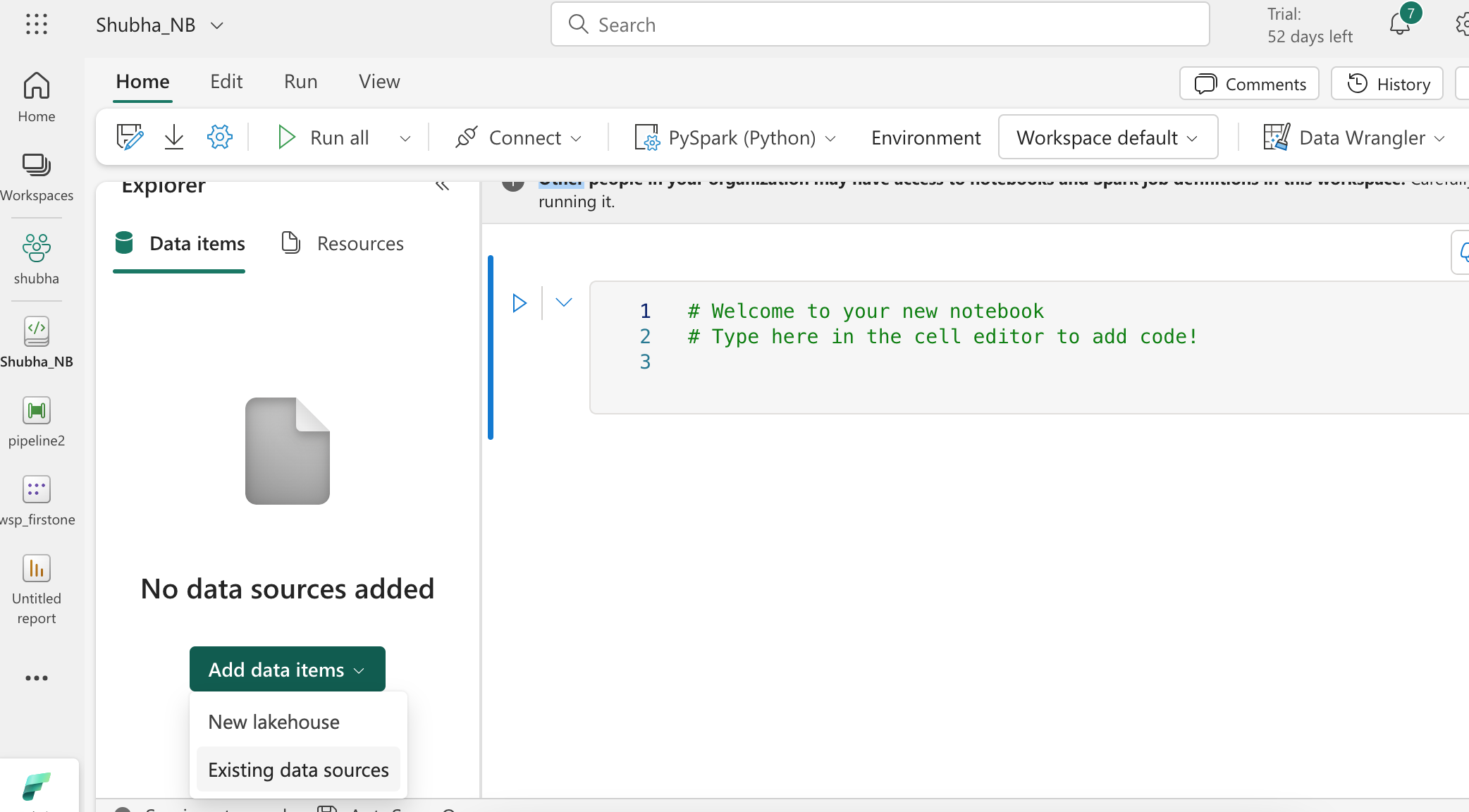
Description automatically generatedsession started in seconds A screenshot of a computer

Description automatically generatedTo create custom session

Workspace setting 🡪 Data Engineering/science 🡪 spark setting 🡪 create new pool/sessionA screenshot of a computer

Description automatically generatedLoad data from data lakehouse to datawarehouse

First we add source as lakehouse to notebook

Click on add data item 🡪existing data sources select the workspaceA screenshot of a computer

Description automatically generatedSource is added successfully A screenshot of a computer

Description automatically generatedNow lets read the data from lakehouse to a dataframe

To get the path A screenshot of a computer

Description automatically generated A computer screen shot of a computer code

Description automatically generated A screenshot of a computer

Description automatically generatedlets write data into datawarehouse

As we are loading data to warehouse , we need to create a table with schema of lakehouse A screenshot of a computer

Description automatically generatednow we can write the data to warehouse , using below code

As we can see in df ID and phonenumber columns are varchar and in destination they r integer and bigint , so first we need to change this then append to warehouse A screenshot of a computer code

Description automatically generateddata successfully appended to warehouse A screenshot of a computer

Description automatically generated  
  
**Read the data from warehouse and load it to lakehouse** **A screenshot of a computer

Description automatically generated**lets write this data to lakehouse A screenshot of a computer

Description automatically generatedcode ran successfully

Lets check the data in lake whether new file is created or not A screenshot of a computer

Description automatically generateddata got loaded successfully 