PIPELINE 1

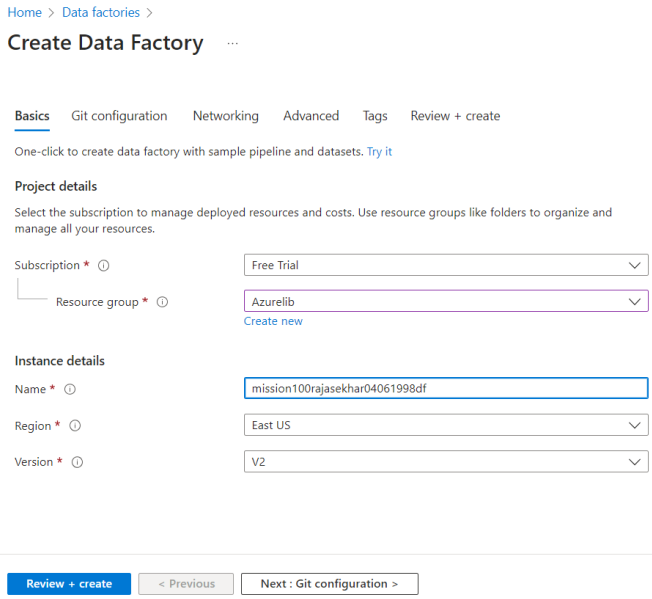
Go to the ADF studio and create your first pipeline name: Copy_ProductTable_To_CSV.

In the newly created SQL DB there is one built in SalesLt.Product table.

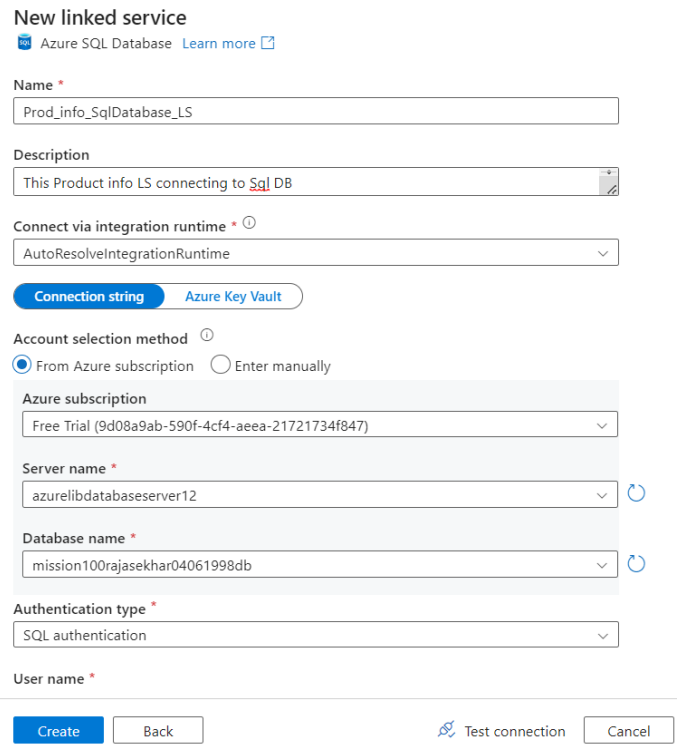
Copy the Product table data to CSV file in 'landing/CSV' folder in ADLS using the ADF.

Steps

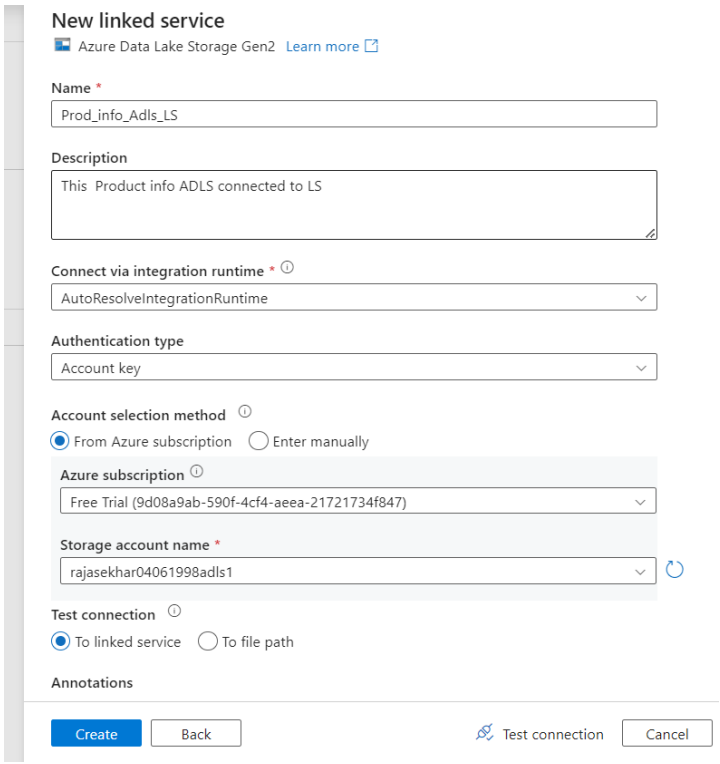
Creating a Data Factory account



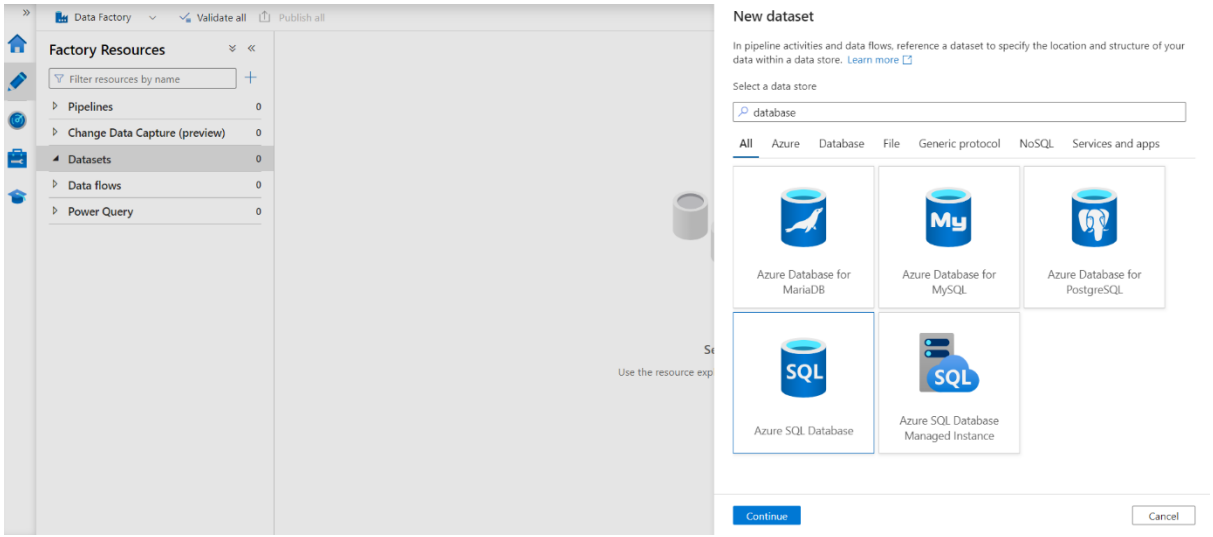
Creating a Linked Service for SQL DB



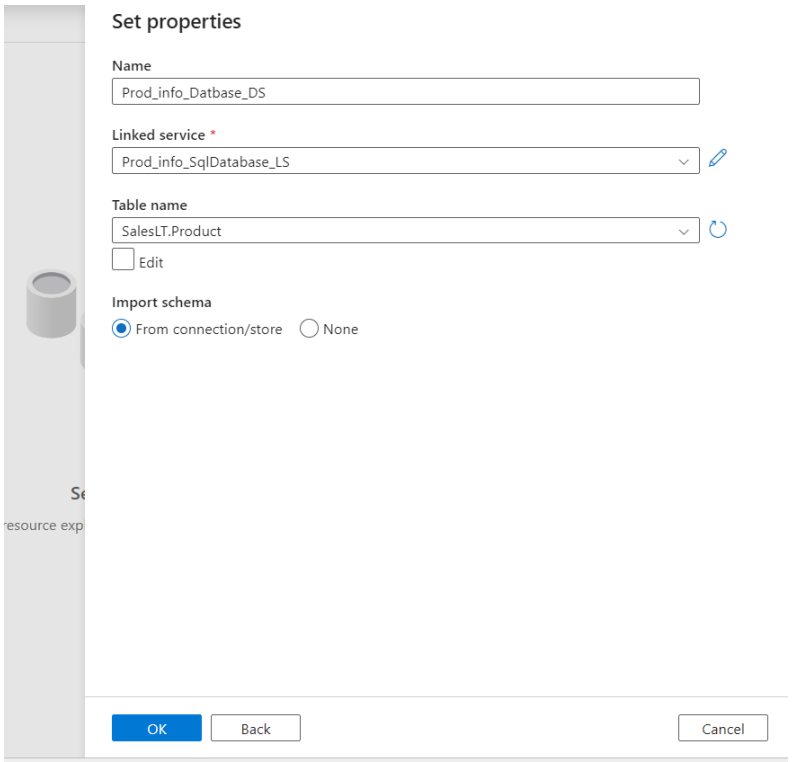
Creating a Linked service to connect with ADLS



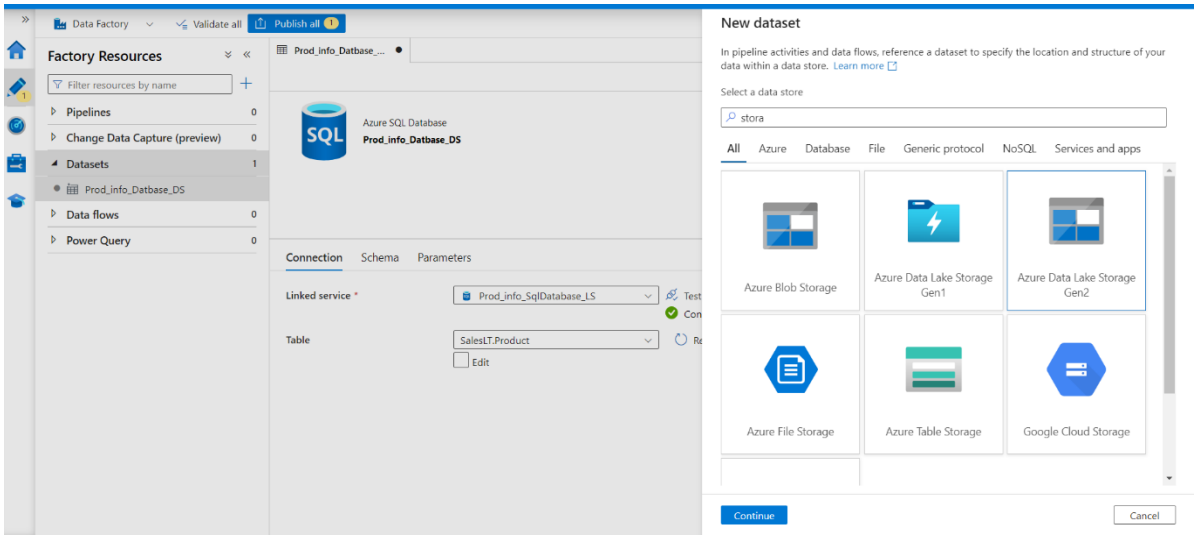
Creating a Dataset to connect with SQL DB



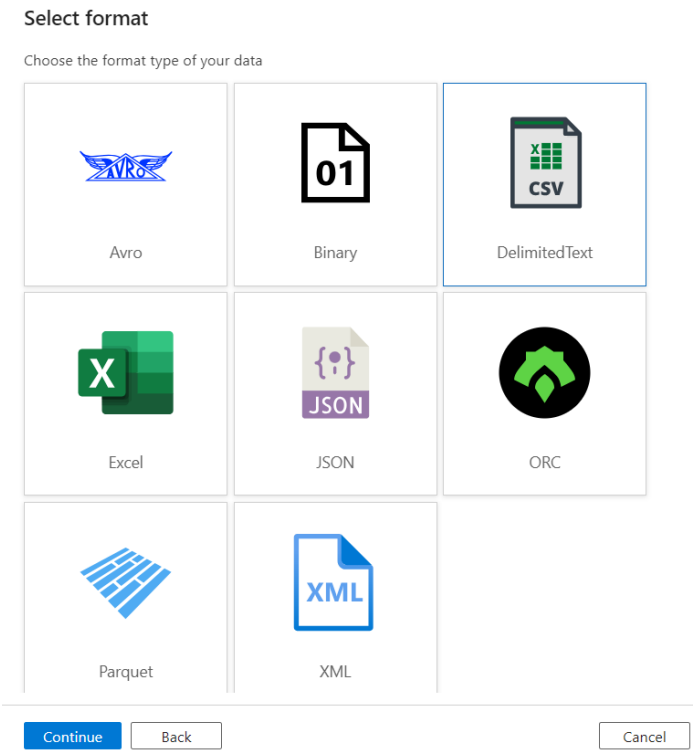
Setting up the properties of Dataset



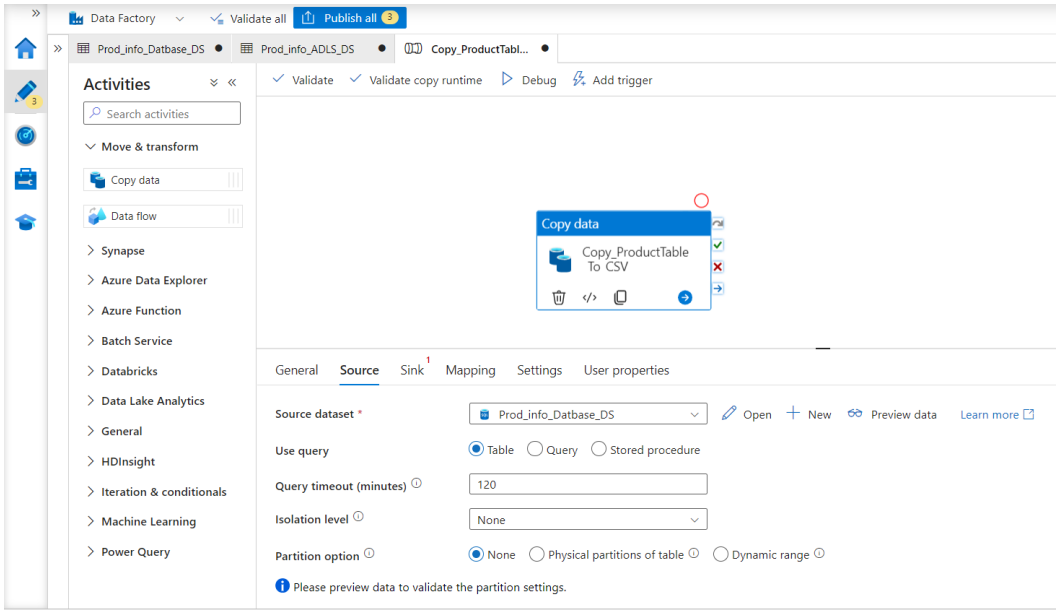
Creating a Dataset to connect with ADLS



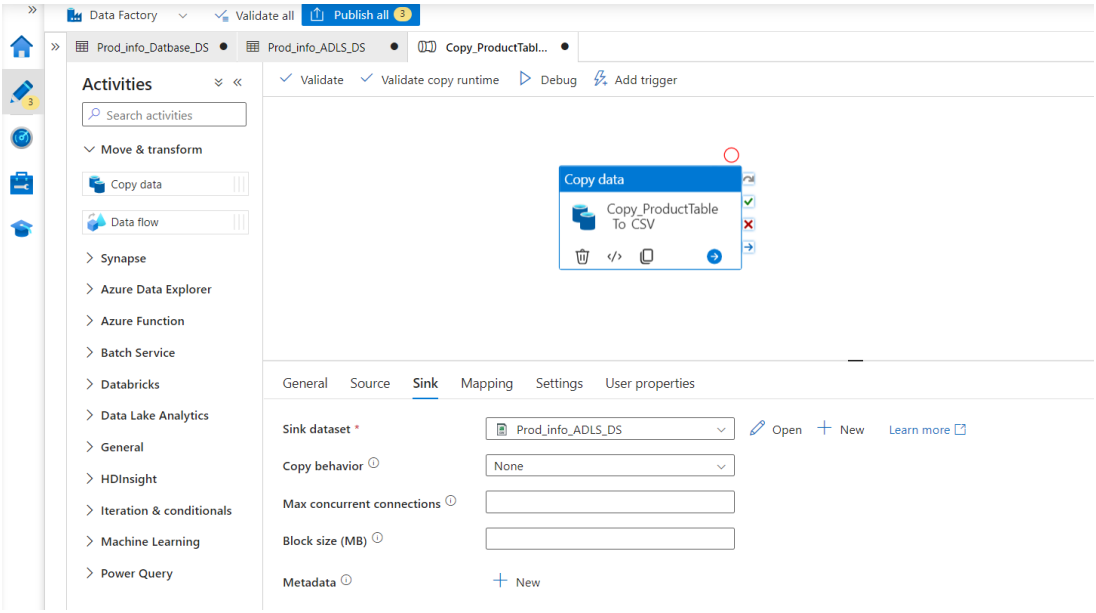
Setting up the properties with CSV format



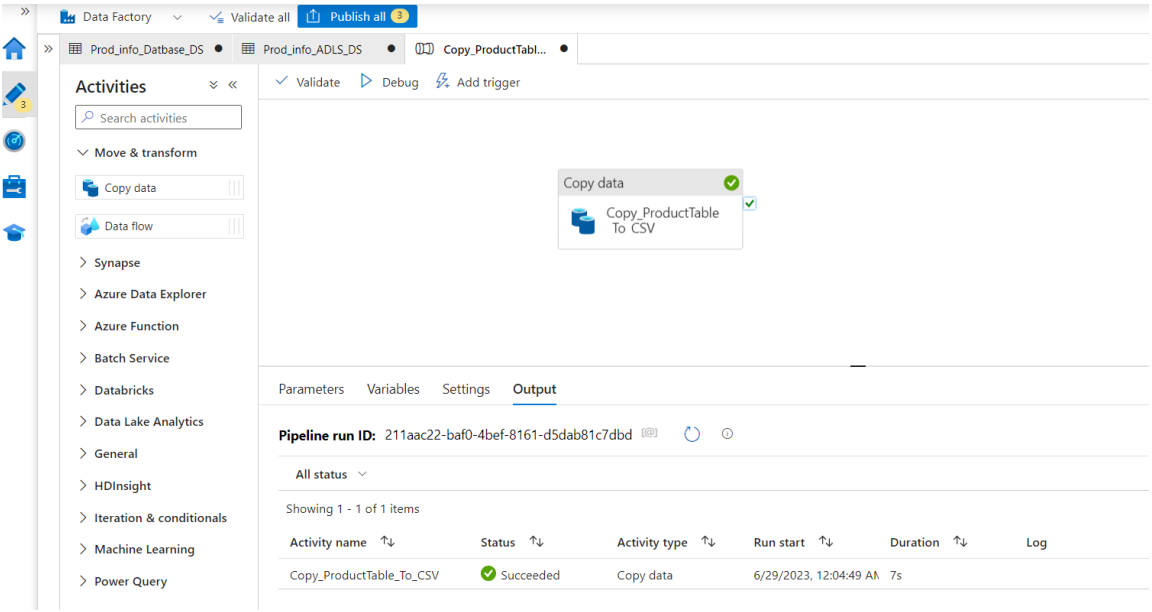
Providing Database_DS at the source level



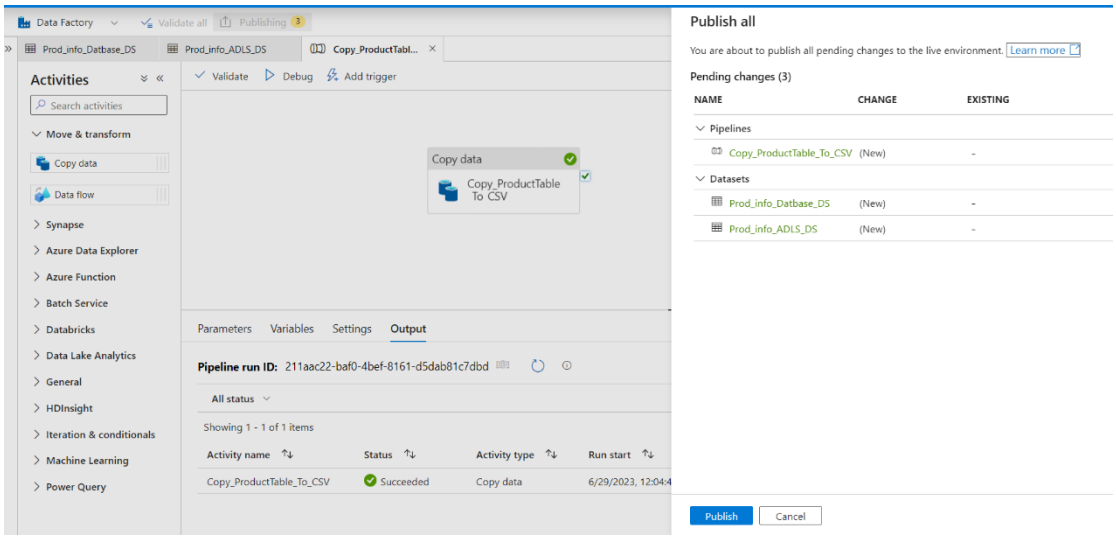
Providing ADLS_DS at the Sink level



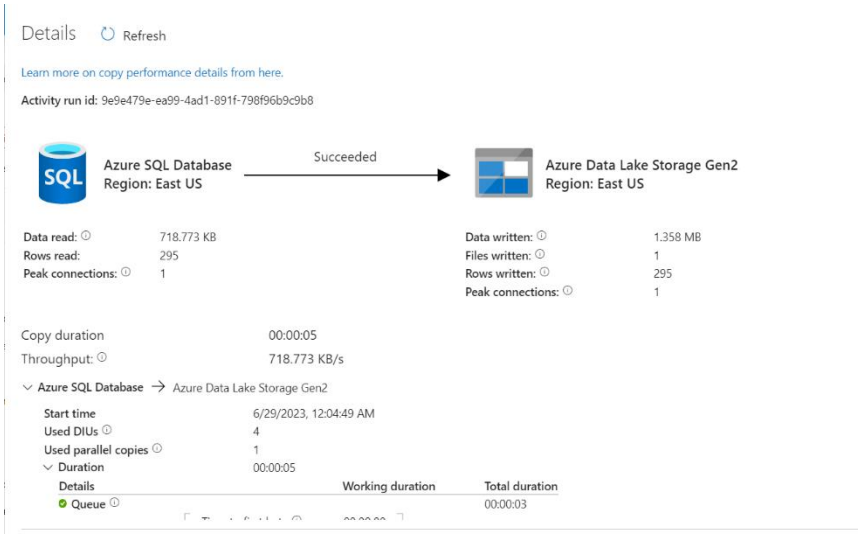
Triggering the activity



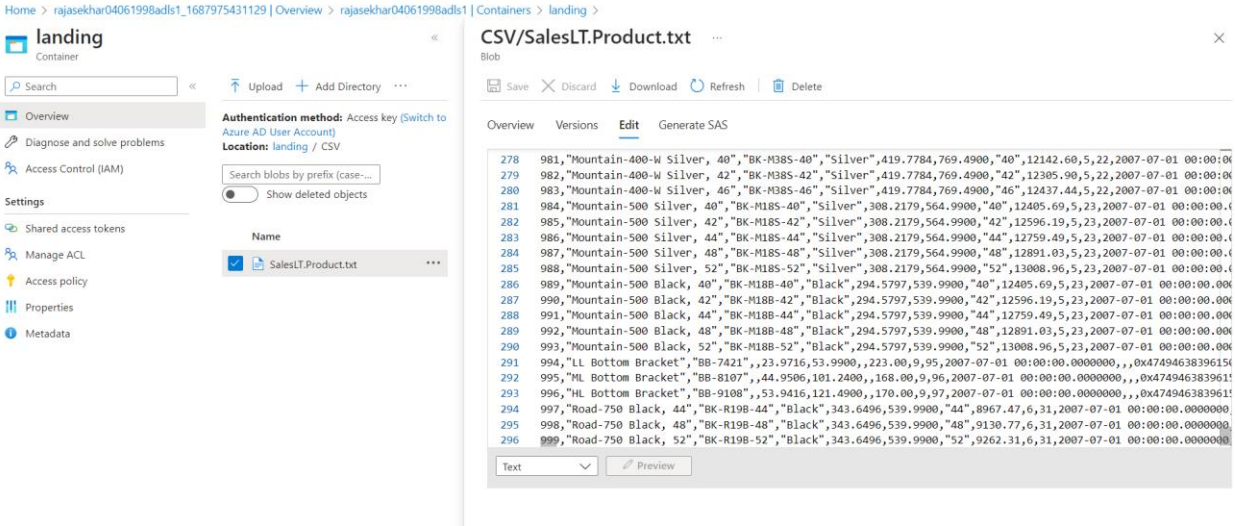
Publishing all Data to save



Conversion of the data to ADLS from SQL DB



Finally Checking data in ADLS landing Directory



PIPELINE 2

Create another pipeline name: Copy_Customer_To_JSON In the newly created SQL DB there is one built in SalesLt.Customer table.

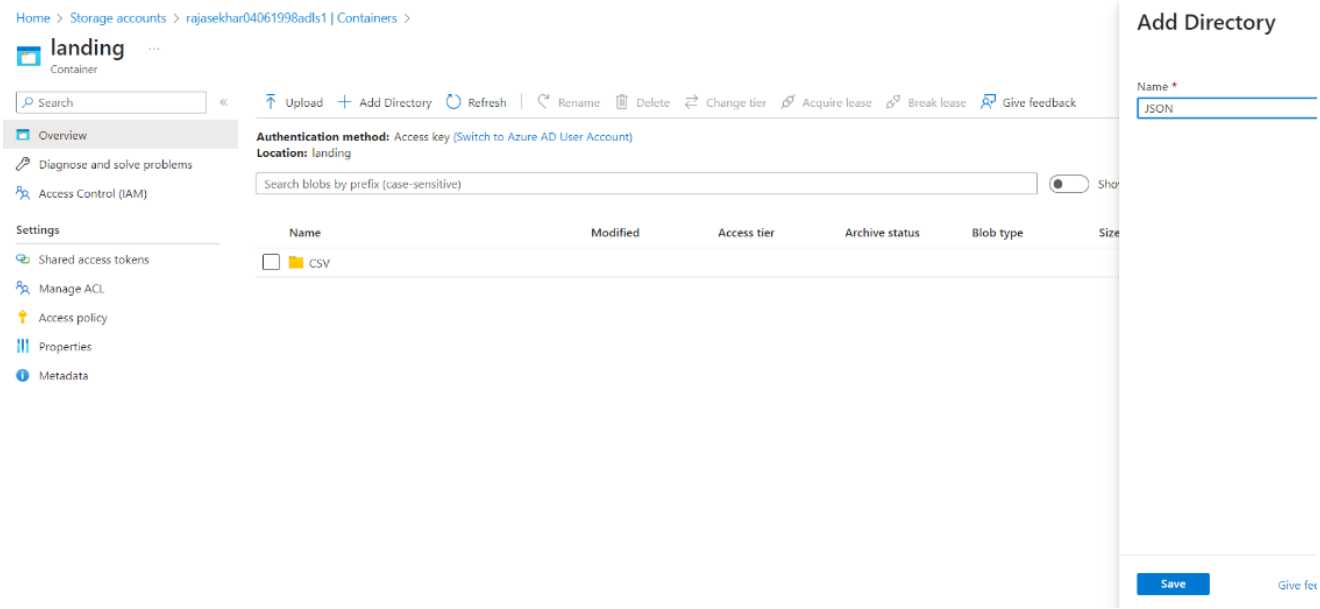
Copy the Customer table data to JSON file in 'landing/JSON' folder in ADLS using the ADF.

Hint: During the dataset creation step instead of choosing the file type CSV choose JSON

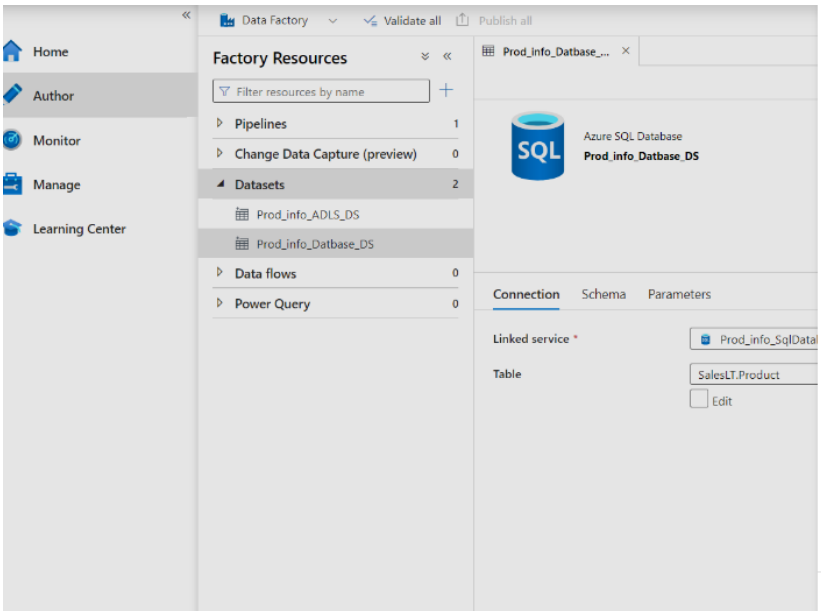
Note: I'm Not created Linked service again as I already created in Pipeline1.

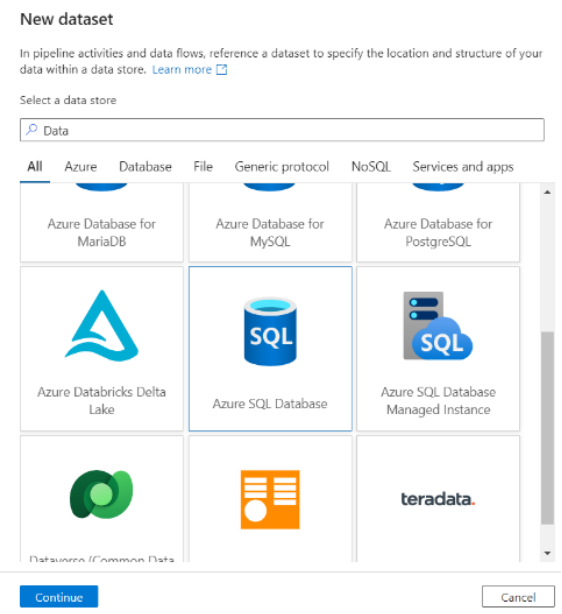
Steps:

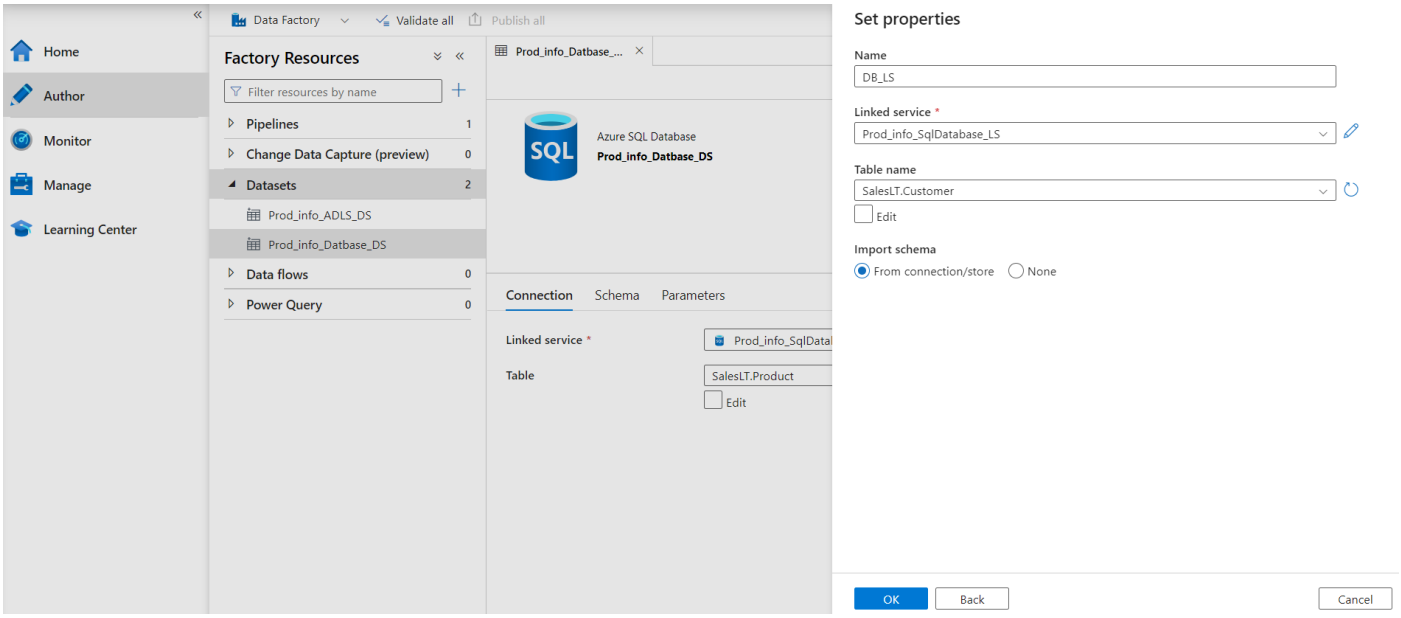
Adding JSON Folder in landing Root Directory in ADLS account



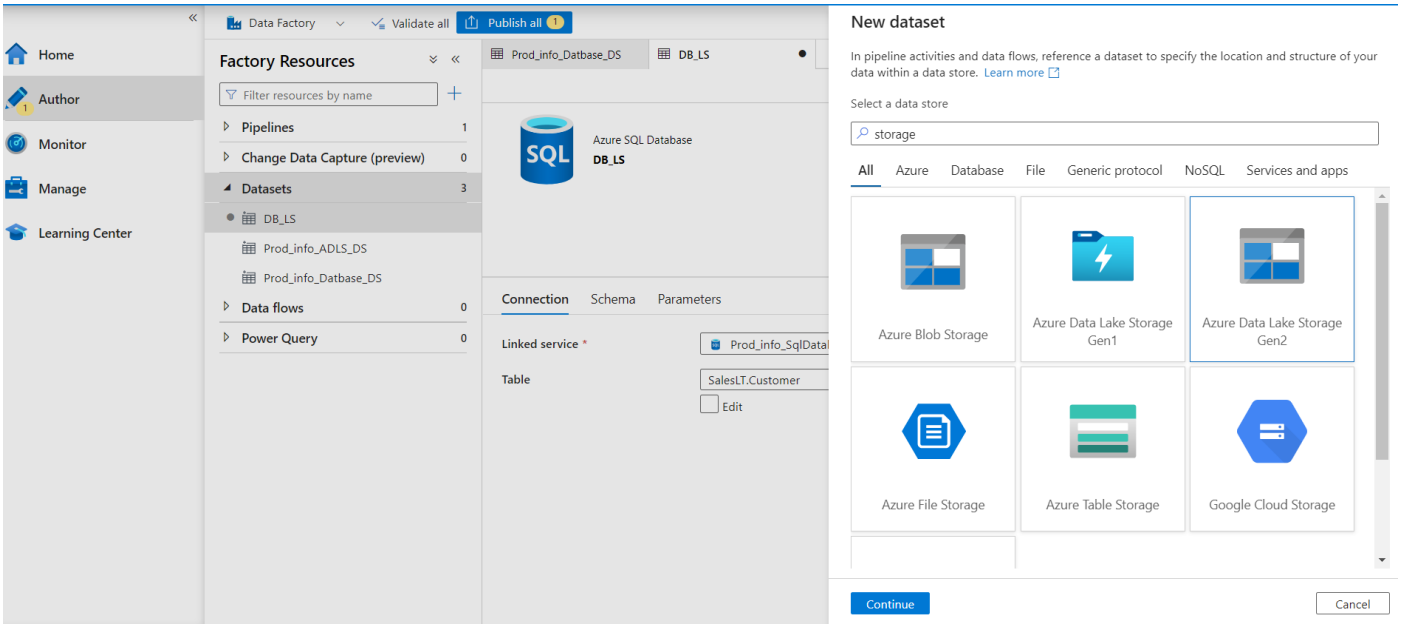
Creating SQL Dataset Service for connecting LS



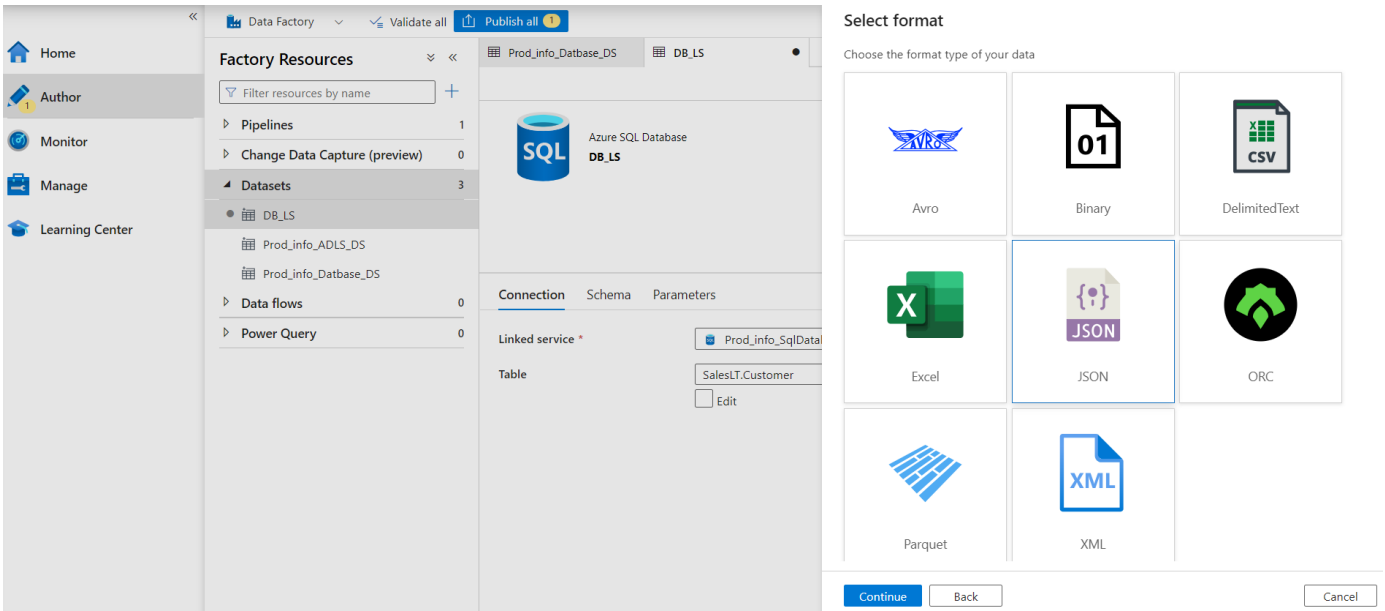




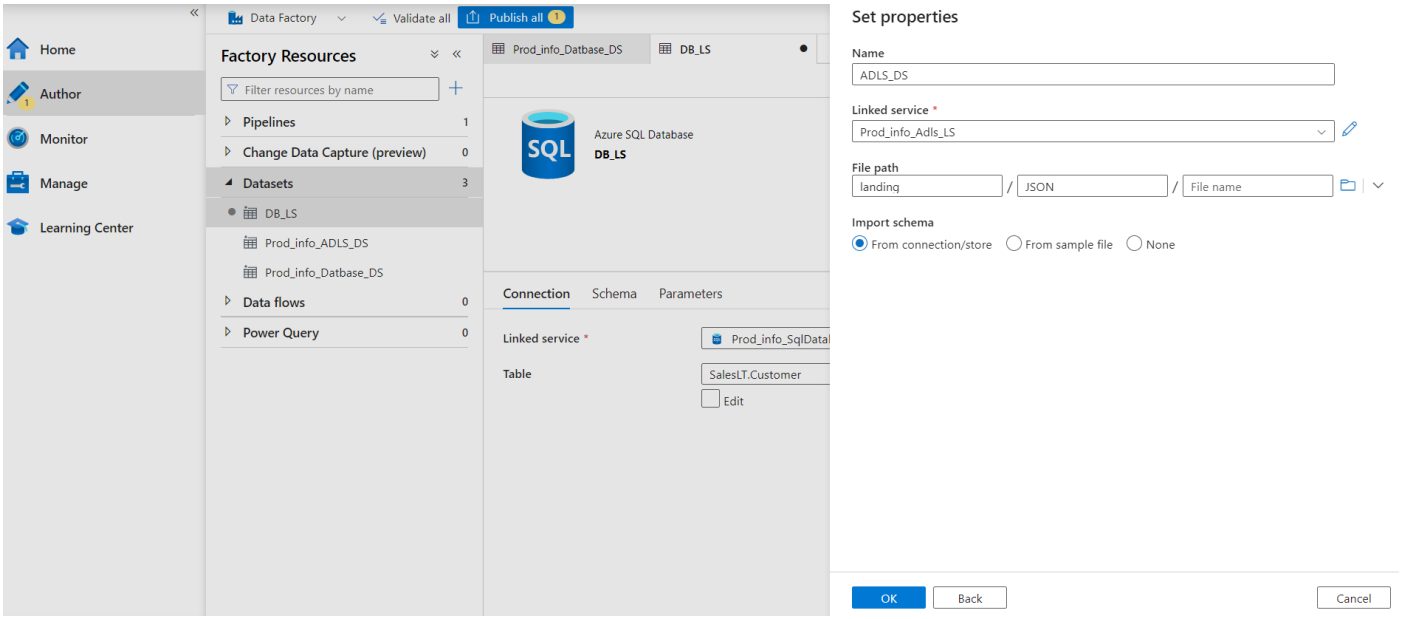
Creating ADLS Dataset Service for connecting LS



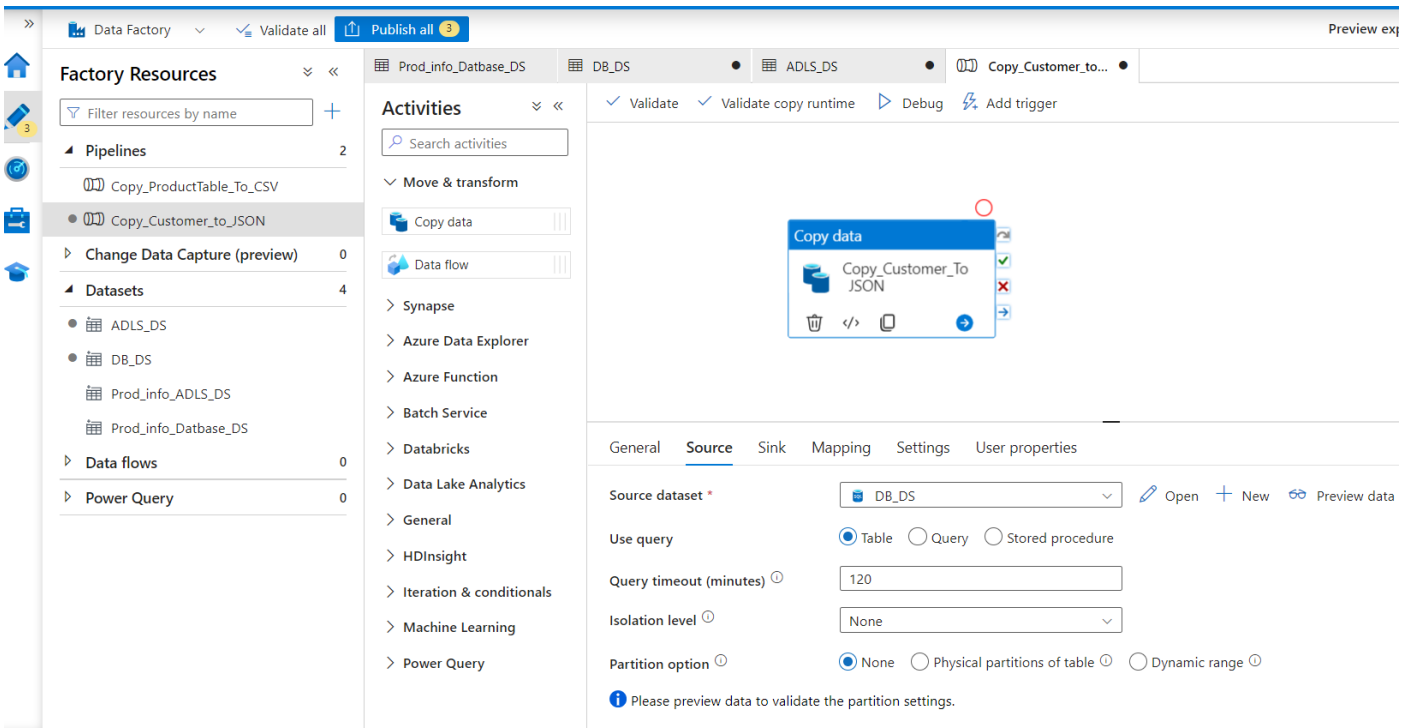
Selecting JSON Type



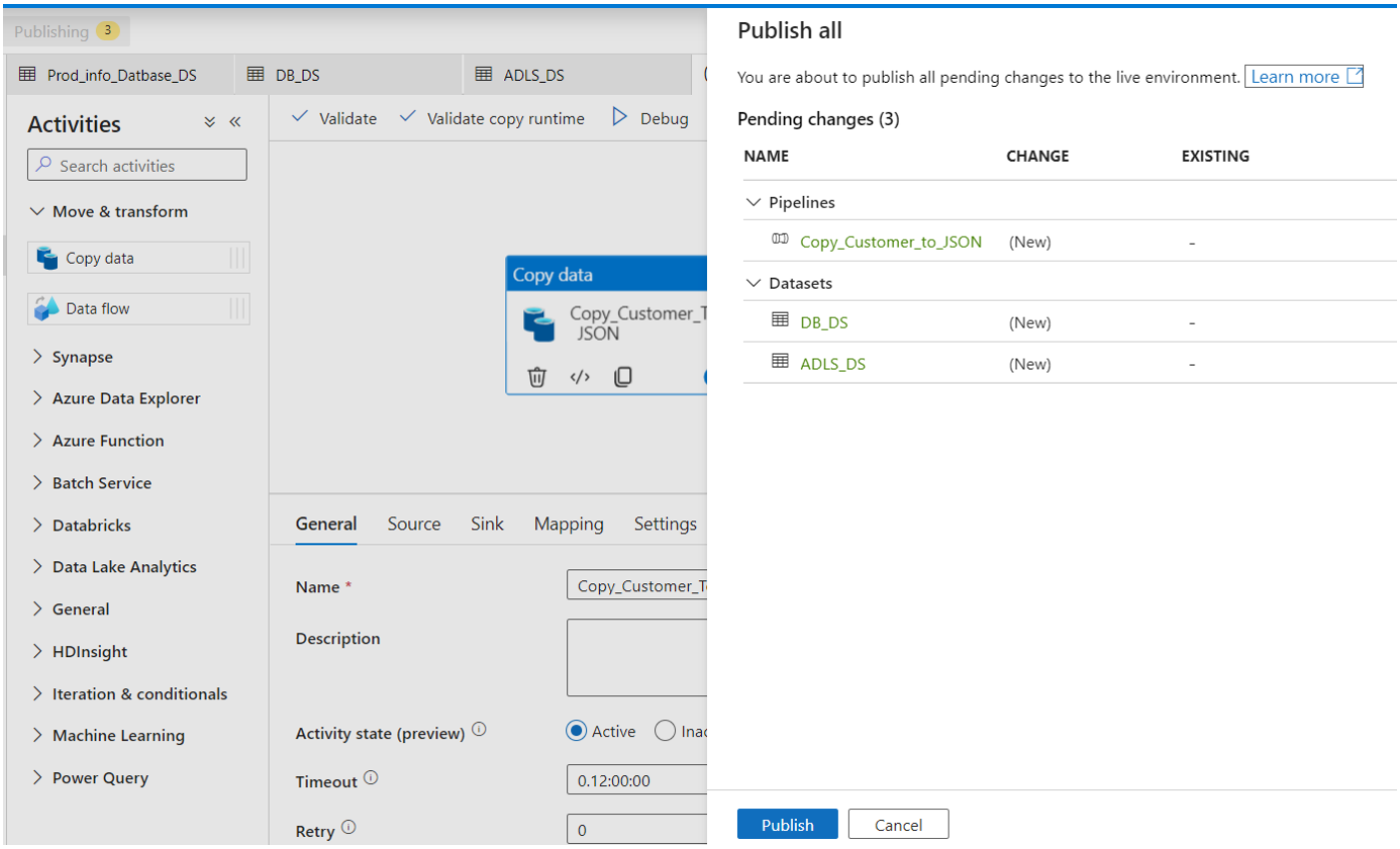
Setting up File Path Landing/JSON in ADLS Dataset



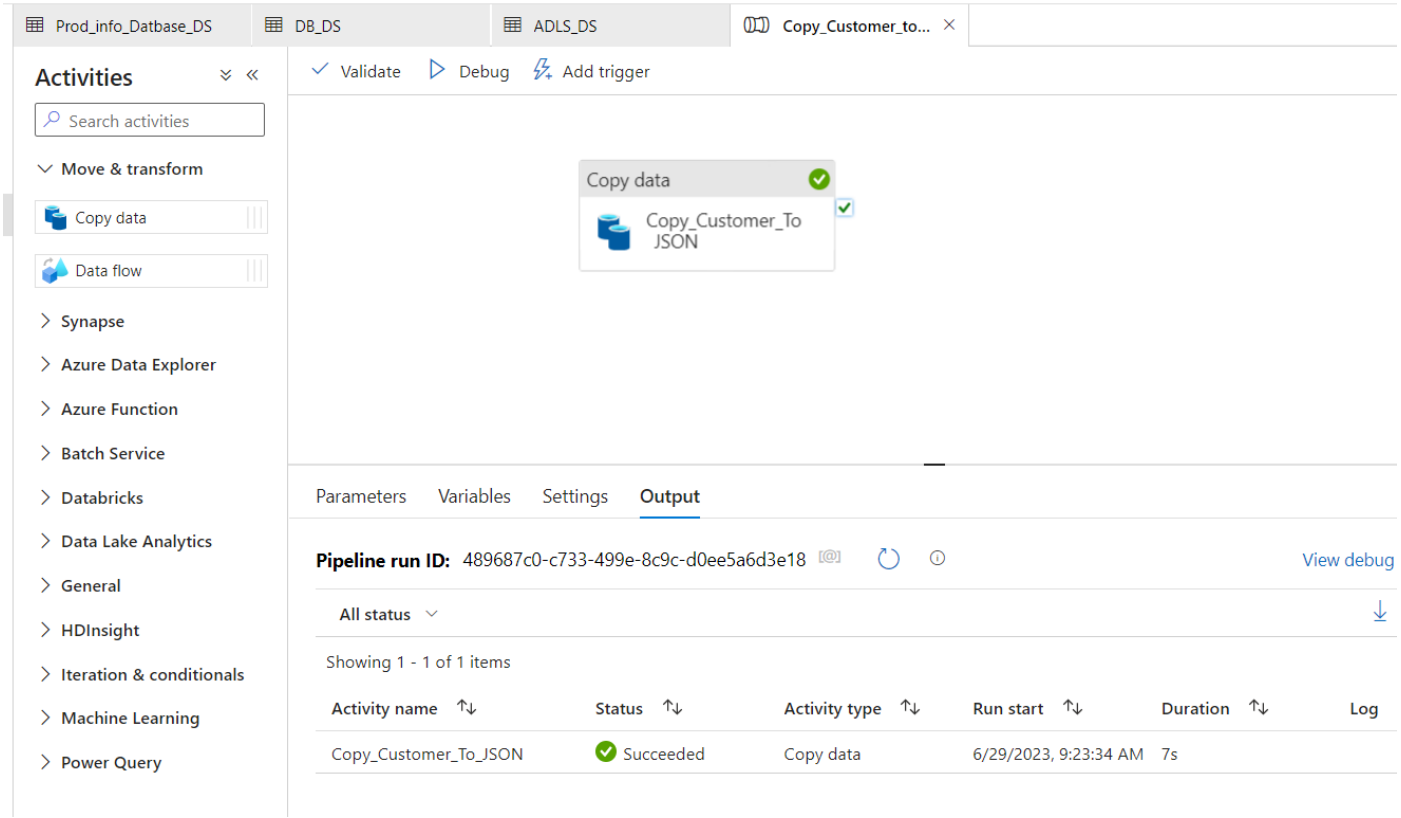
Checking the Activity and Copy



Publishing all files



Triggering the copy data



Conversion of Data SQL DB to ADLS, Rows checking

Details Refresh

Azure SQL Database
Region: East US

Succeeded

Azure Data Lake Storage Gen2
Region: East US

Data read:	278.379 KB	Data written:	377.467 KB
Rows read:	847	Files written:	1
Peak connections:	1	Rows written:	847
		Peak connections:	1

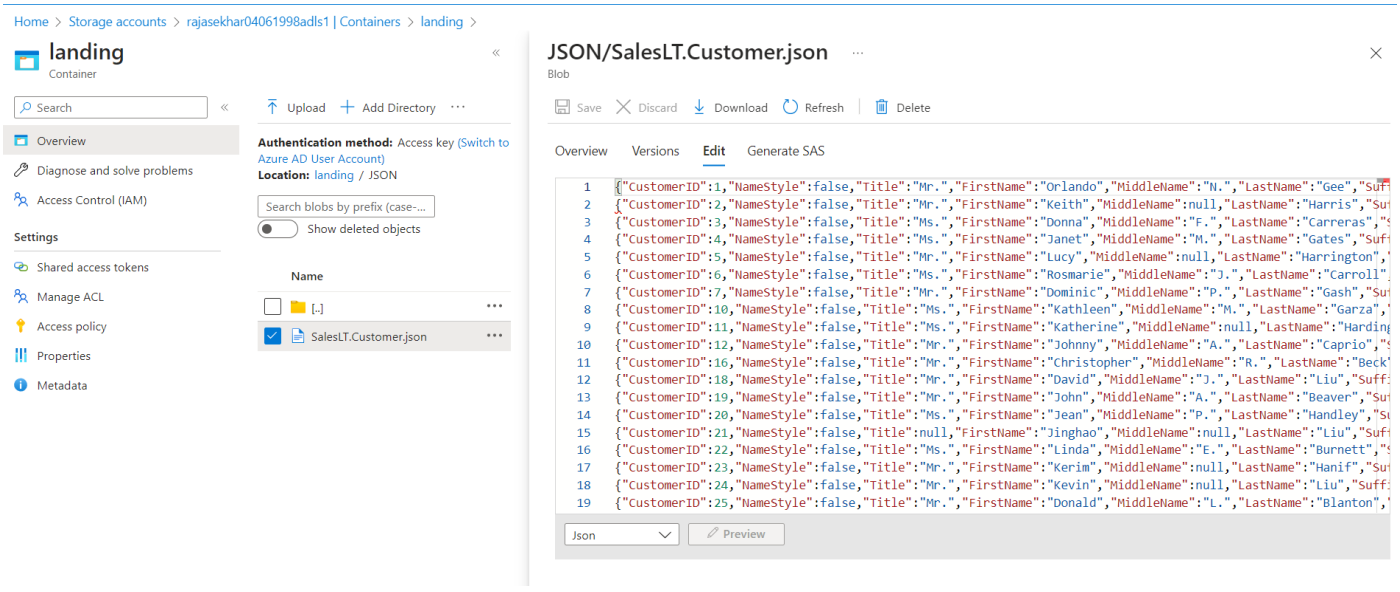
Copy duration	00:00:05
Throughput:	278.379 KB/s

Azure SQL Database → Azure Data Lake Storage Gen2

Start time	6/29/2023, 9:23:34 AM
Used DIUs	4
Used parallel copies	1
Duration	00:00:05

Details	Working duration	Total duration
Queue		00:00:03
Transfer		00:00:01
Time to first byte	00:00:00	
Reading from source	00:00:00	
Writing to sink	00:00:00	

Finally Checking the JSON data in ADLS

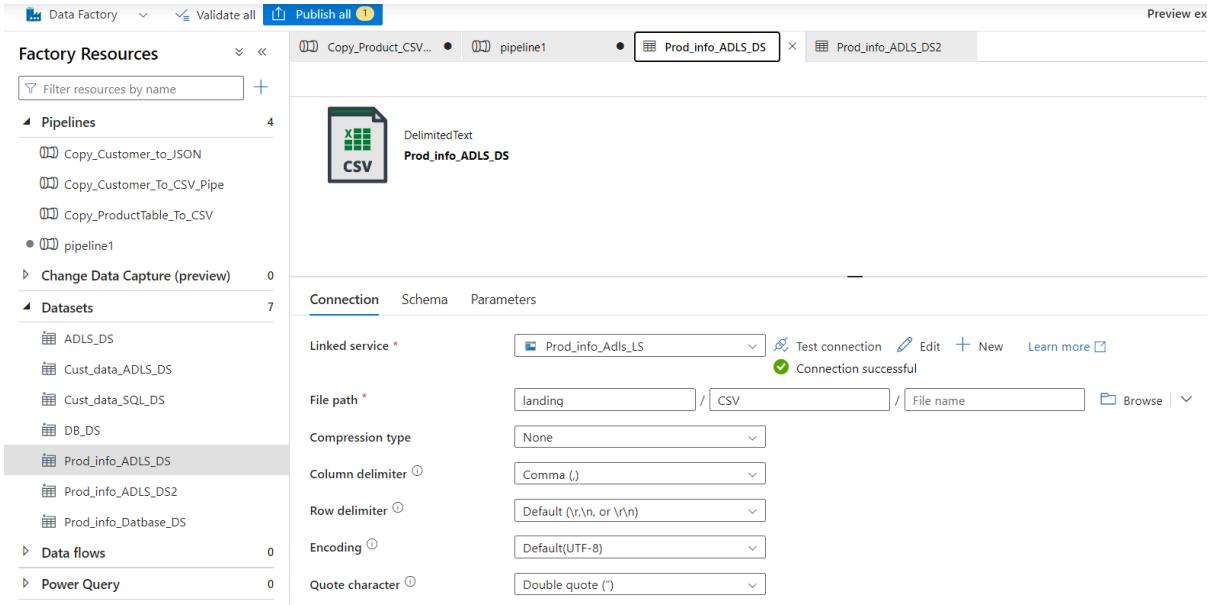


PIPELINE-3

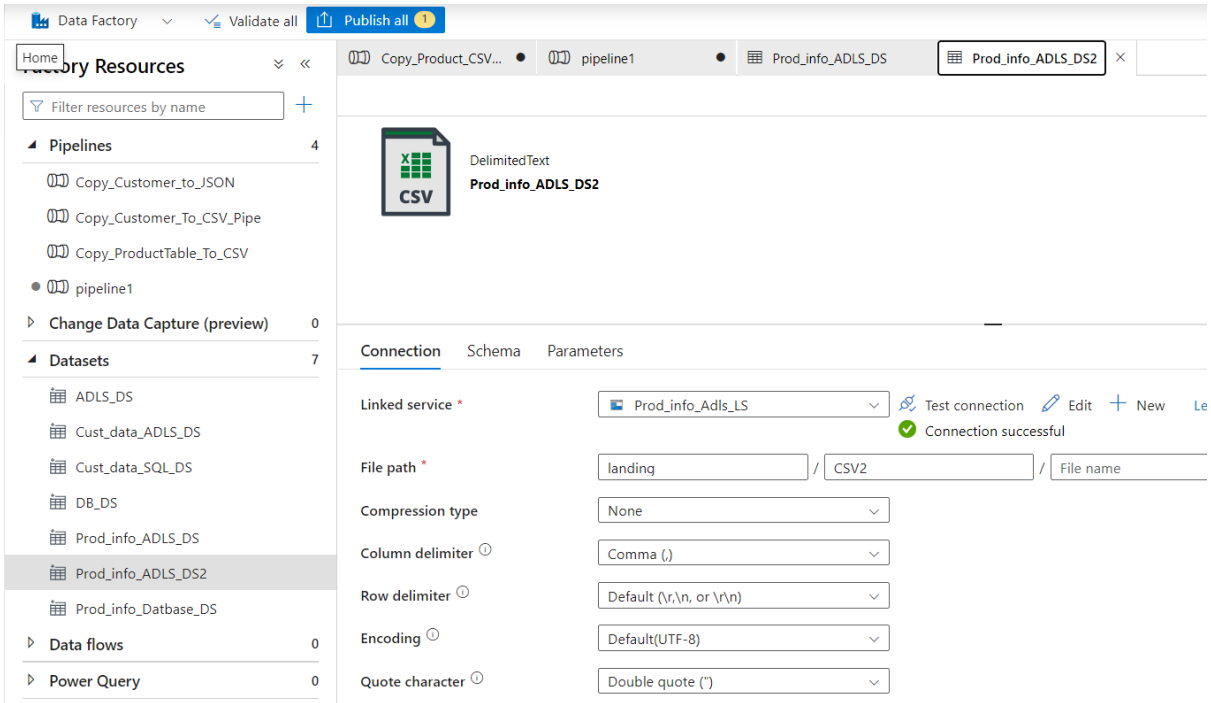
Note :- Linked services are created already

Note :- Here I have used Products data

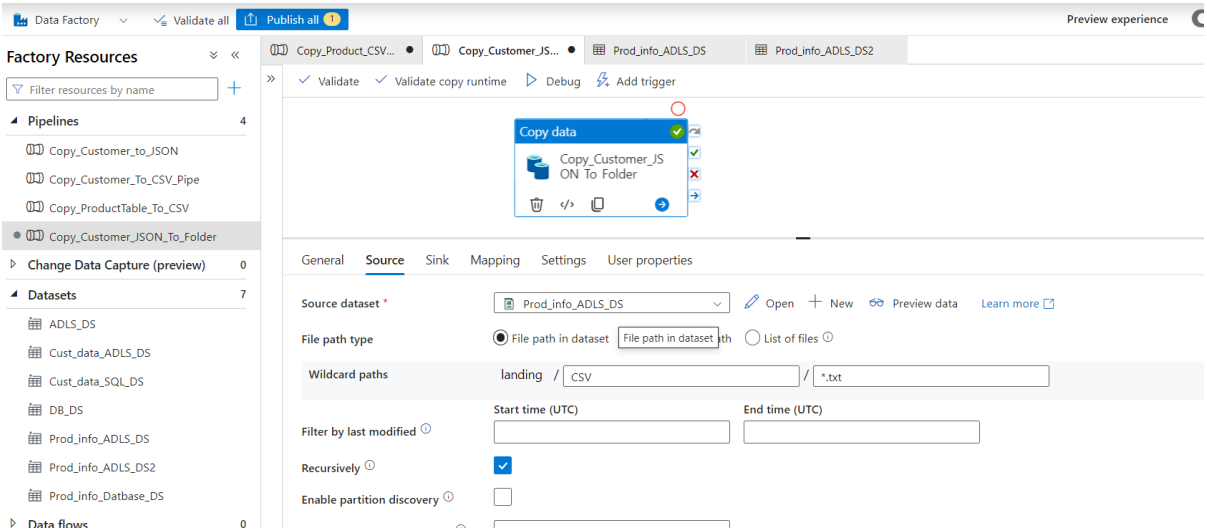
Connecting Products table with Dataset in ADLS



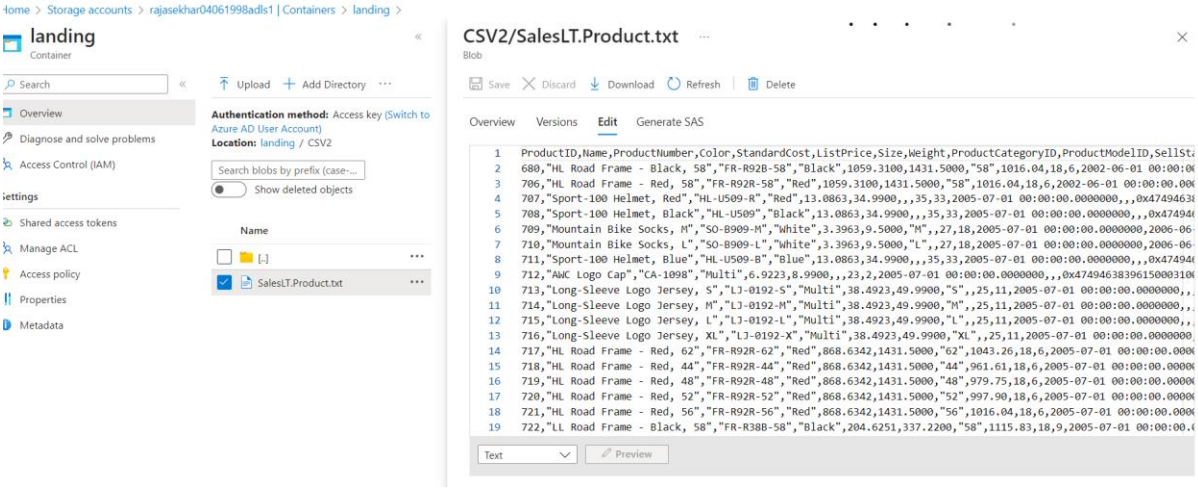
Connecting Products table with Dataset in ADLS



Pipeline Execution and Debugging



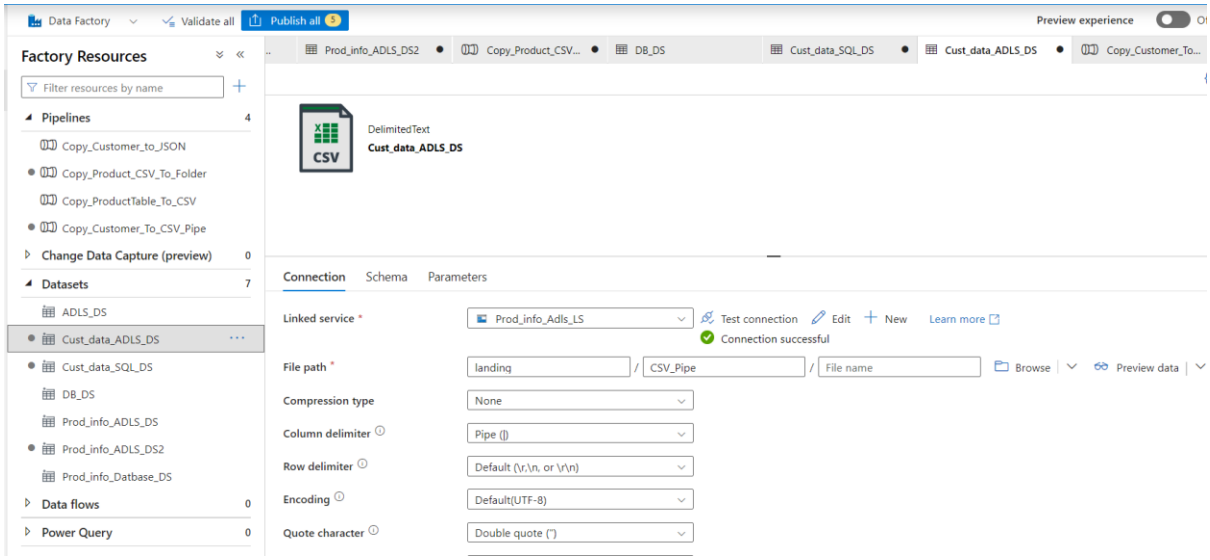
Checking the Products Data in ADLS “CSV2” Directory



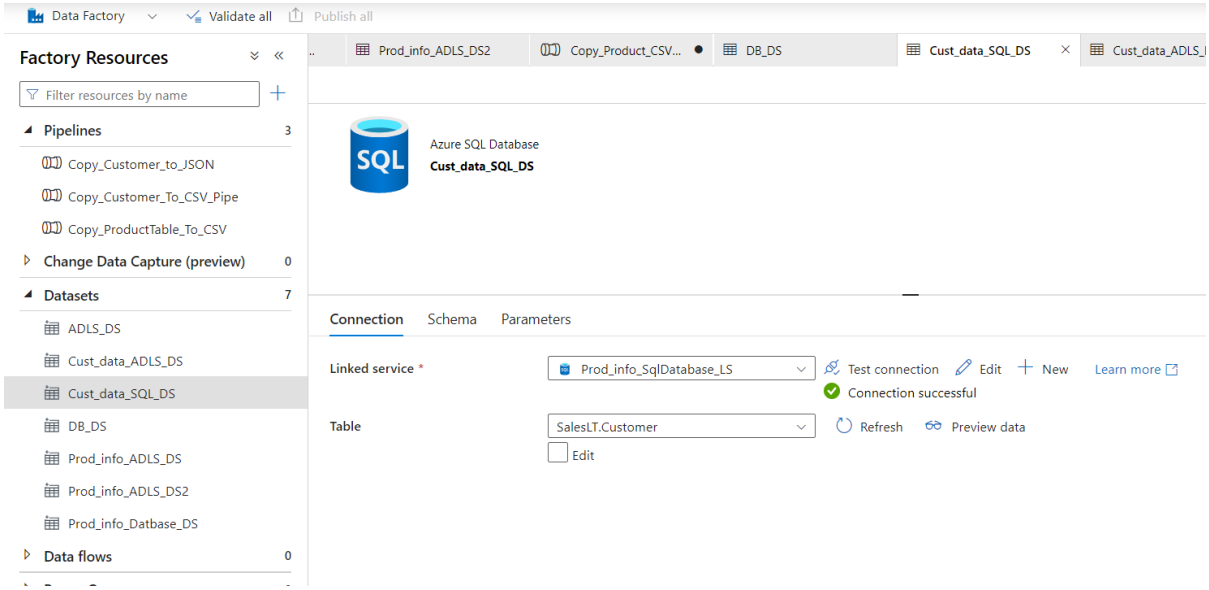
PIPELINE-4

Note :- Linked Services are created already

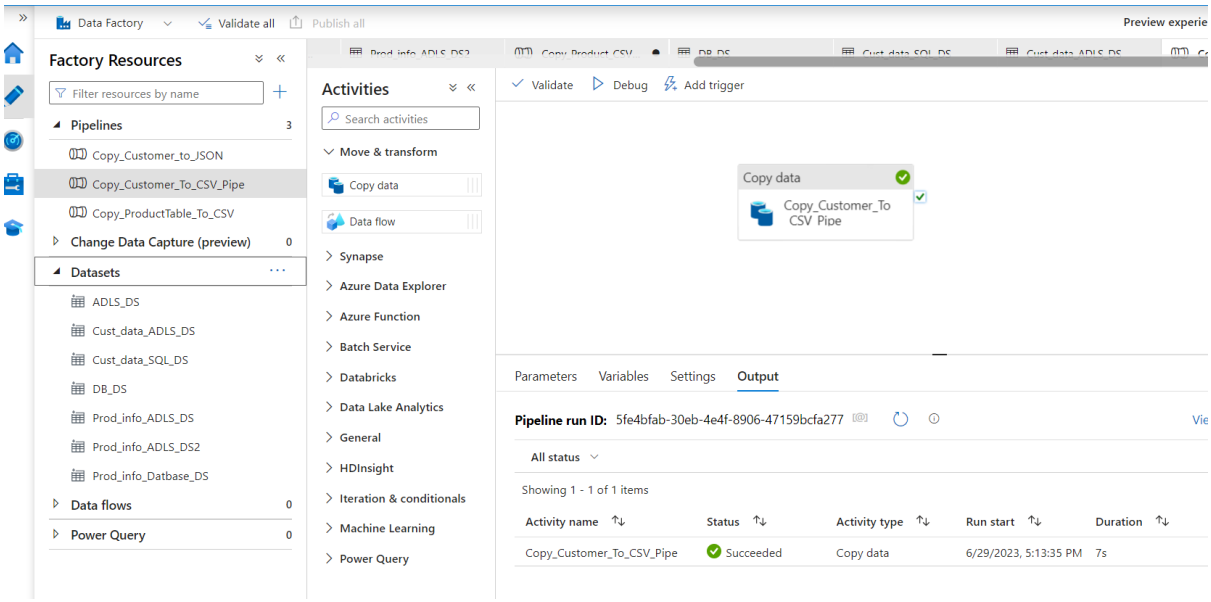
Customer data connected to ADLS with Column delimiter "|"



Customer data connected to SQL DB



Executing and Debugging the Pipeline



Checking the Customer Data in ADLS Storage