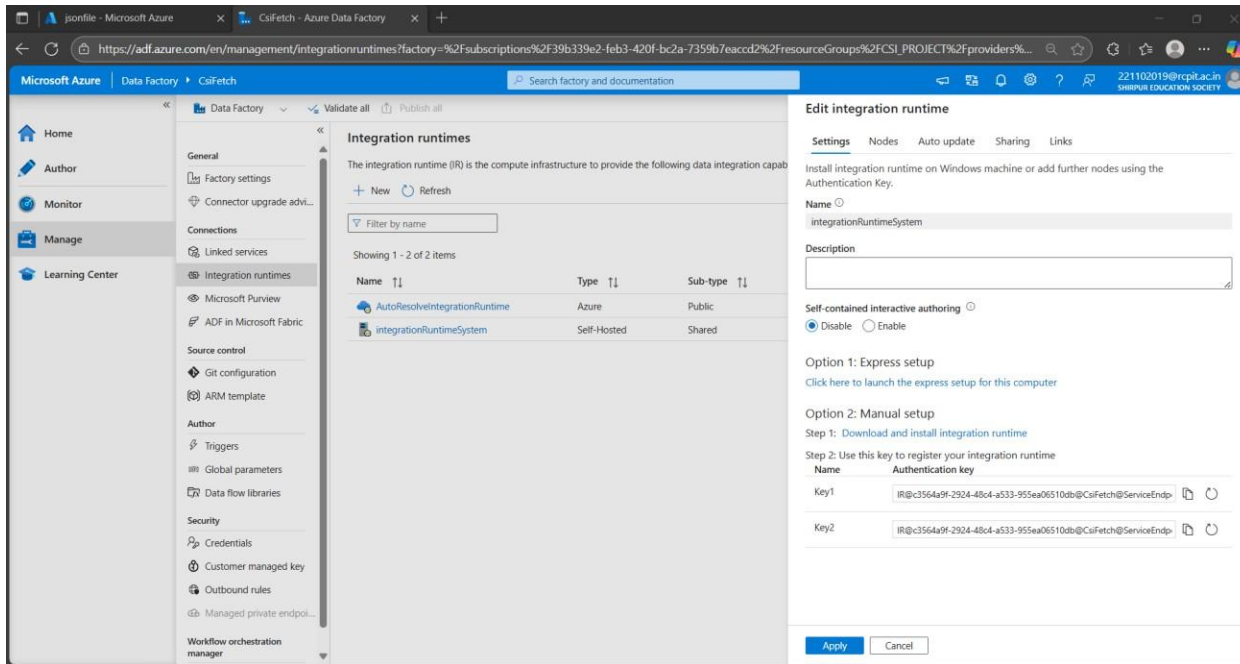
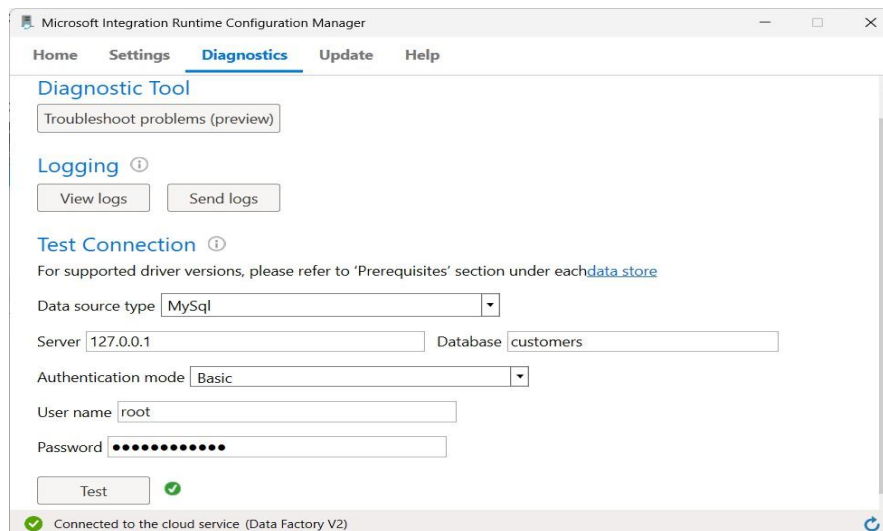


Project Title : A. Create a pipeline to copy customer data from db to ads only if record count is more than 500. Once a data get copy it should call a child pipeline (which will copy the product data from table if customer record count is > 600).
B. Design the pipeline in such a manner that it will pass the Customer pipeline pass the customer count to the child product pipeline via Pipeline parameter.

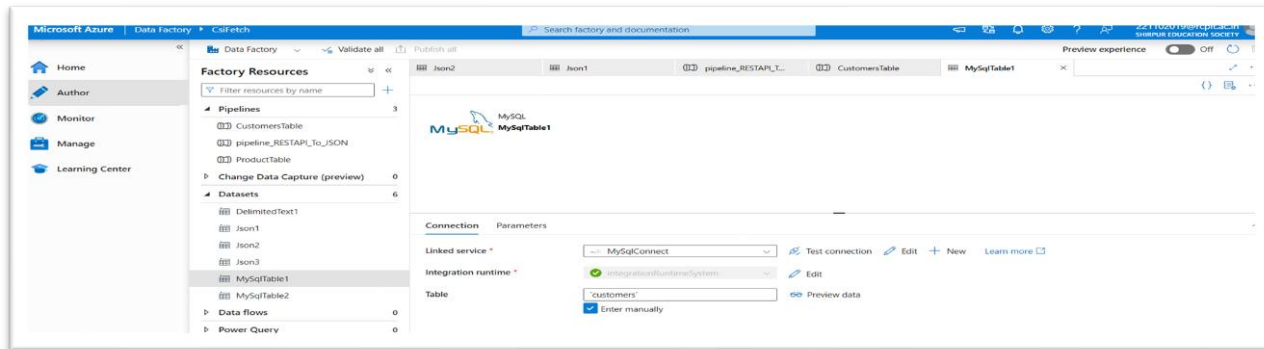
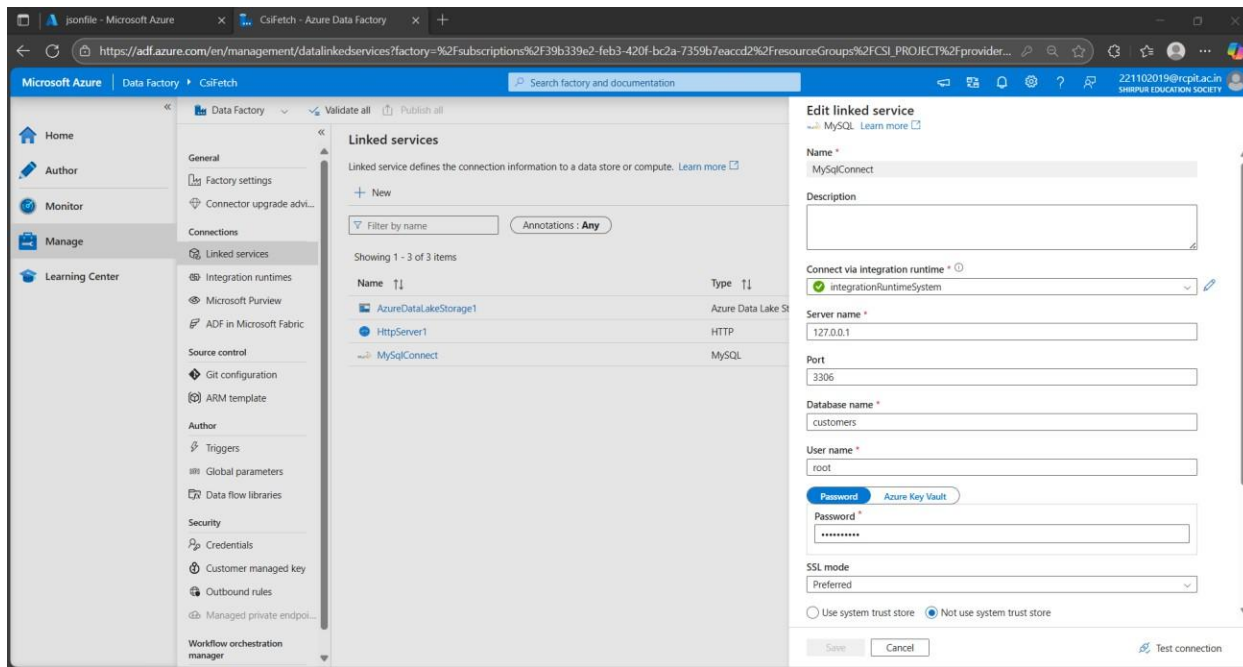
Step 1 : setting up Self-hosted IR to enable secure on-prem-to-cloud transfer.



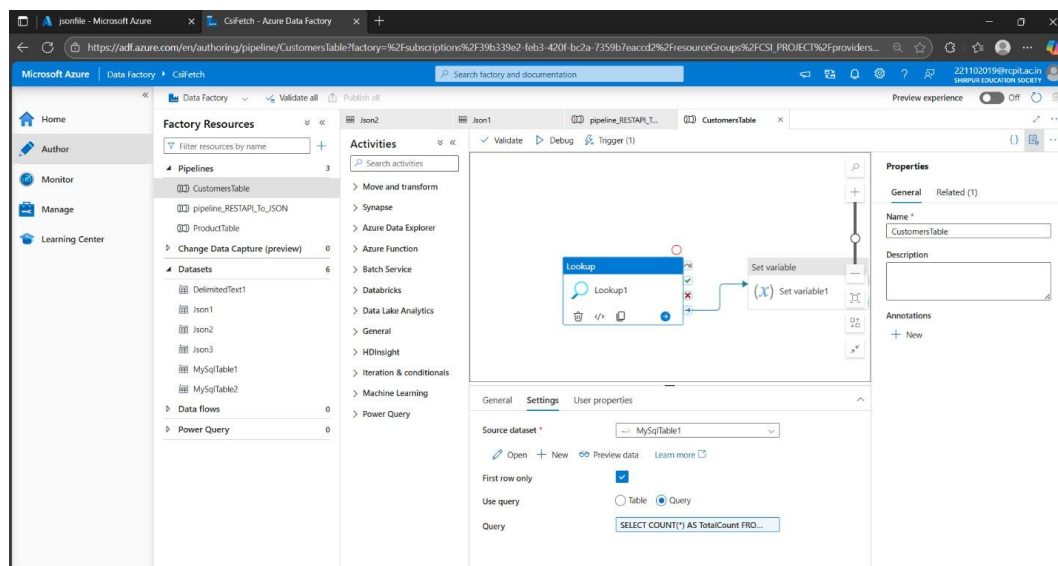
Step 2: Configure Microsoft Integration Runtime with Azure Data Factory .



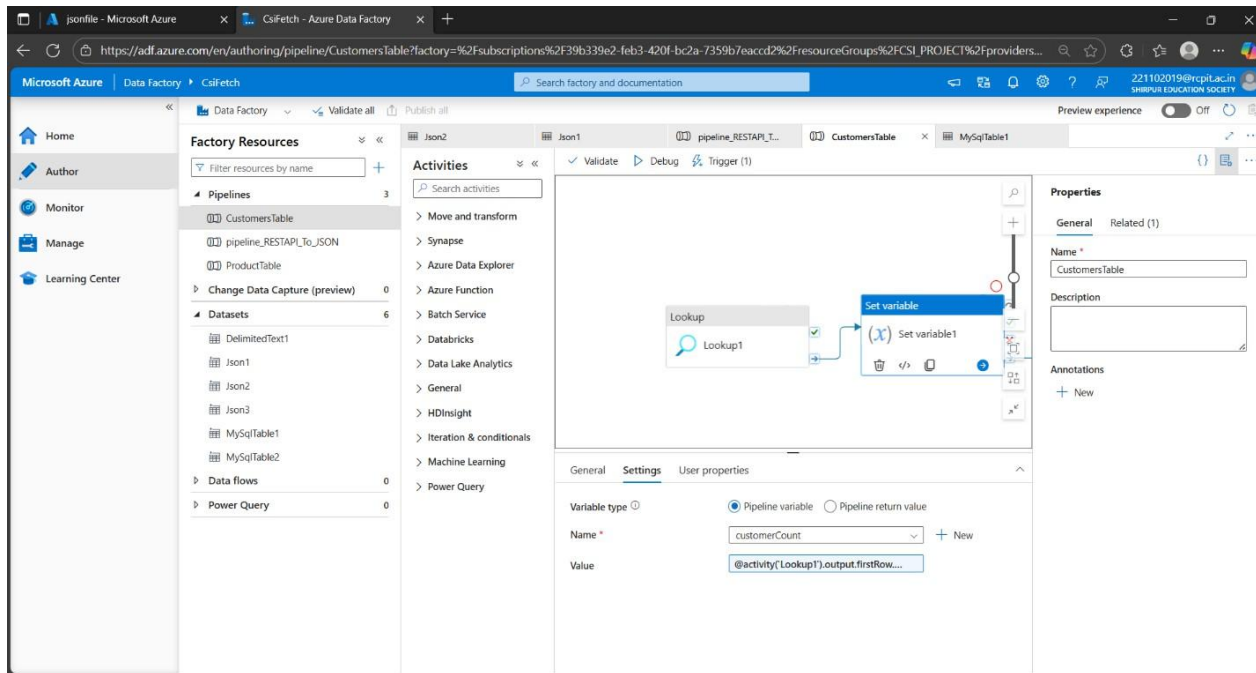
Step 2: Add Linked Services of Mysql Databases and Add Mysql Table Databases into Datasets.



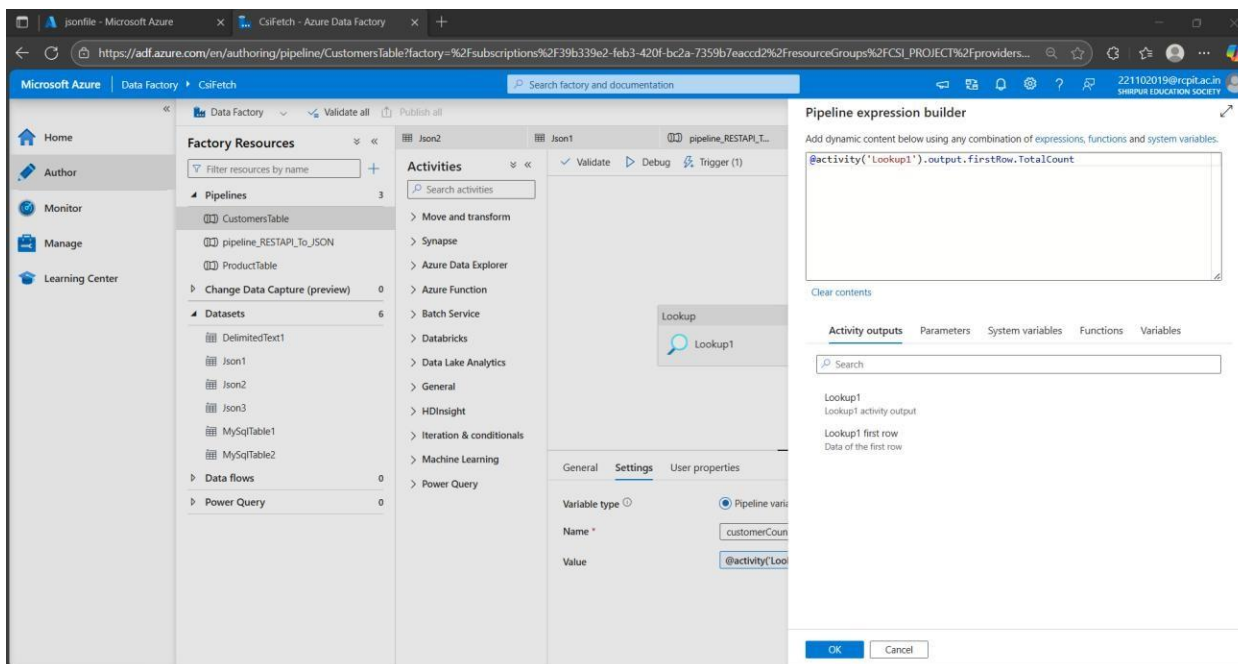
Step 3: Create a Pipeline and add look up activity set dataset as Mysql table and perform Query to count the Row on tables.



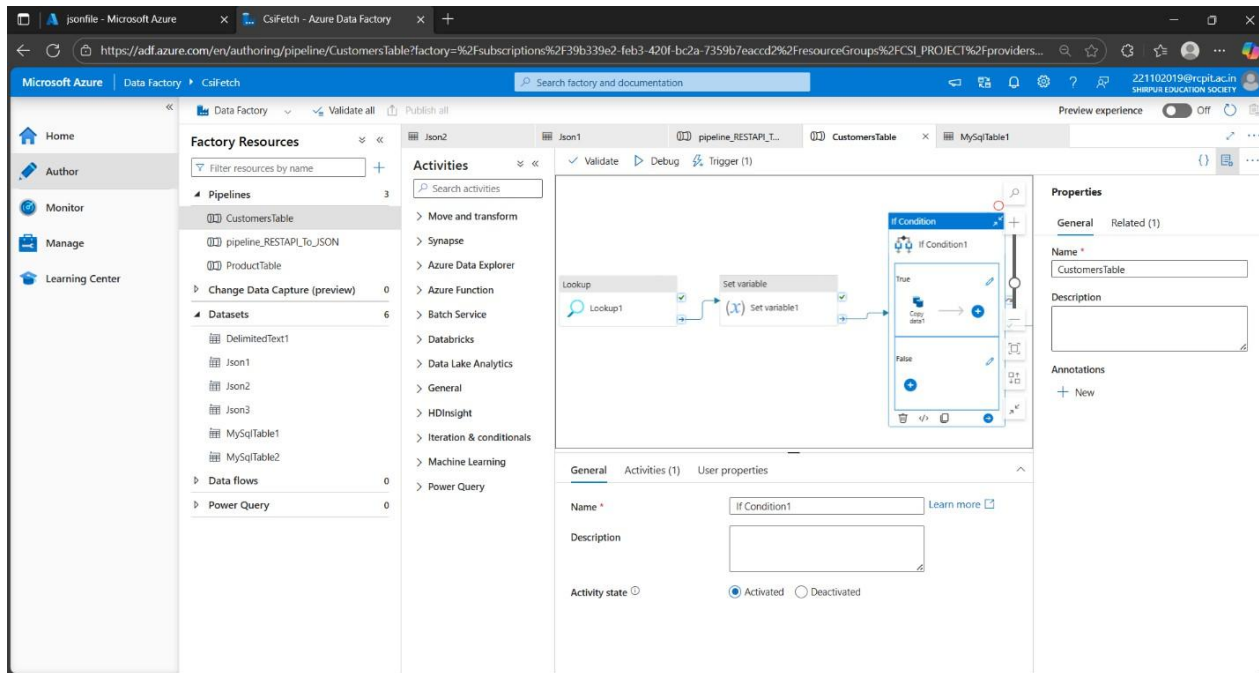
Step 4: Use Set Variable activity to Store Row Count as variable in Set variable activity.



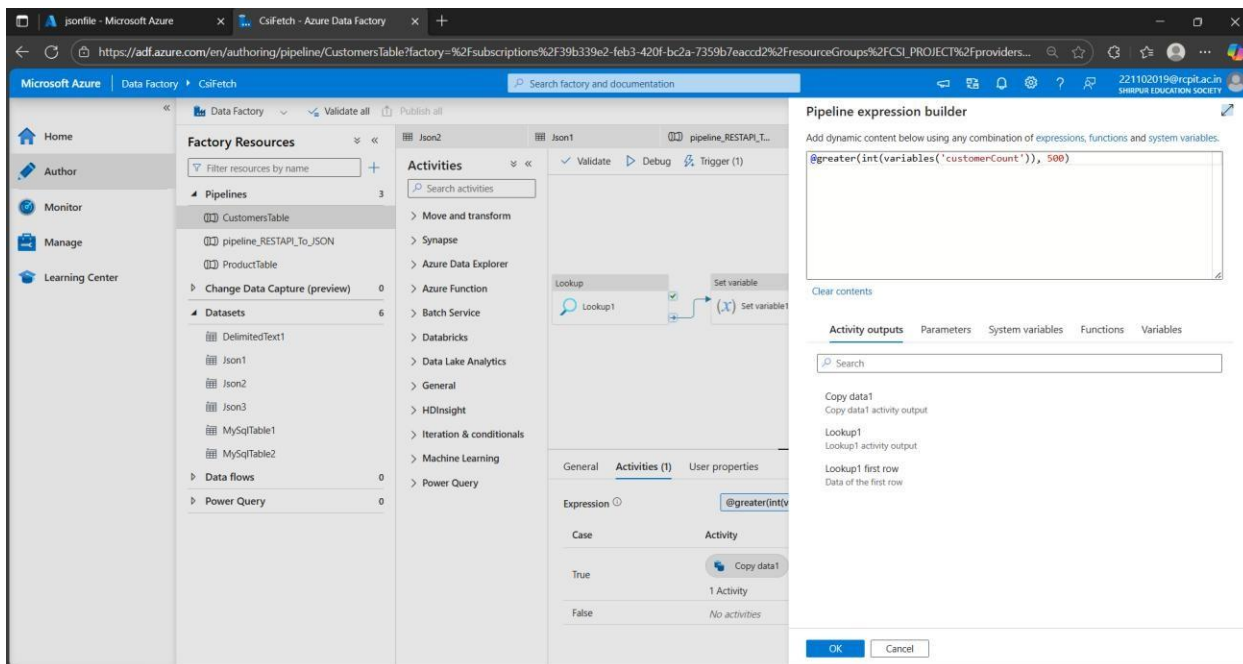
Add Pipeline Expression at Set variable activity



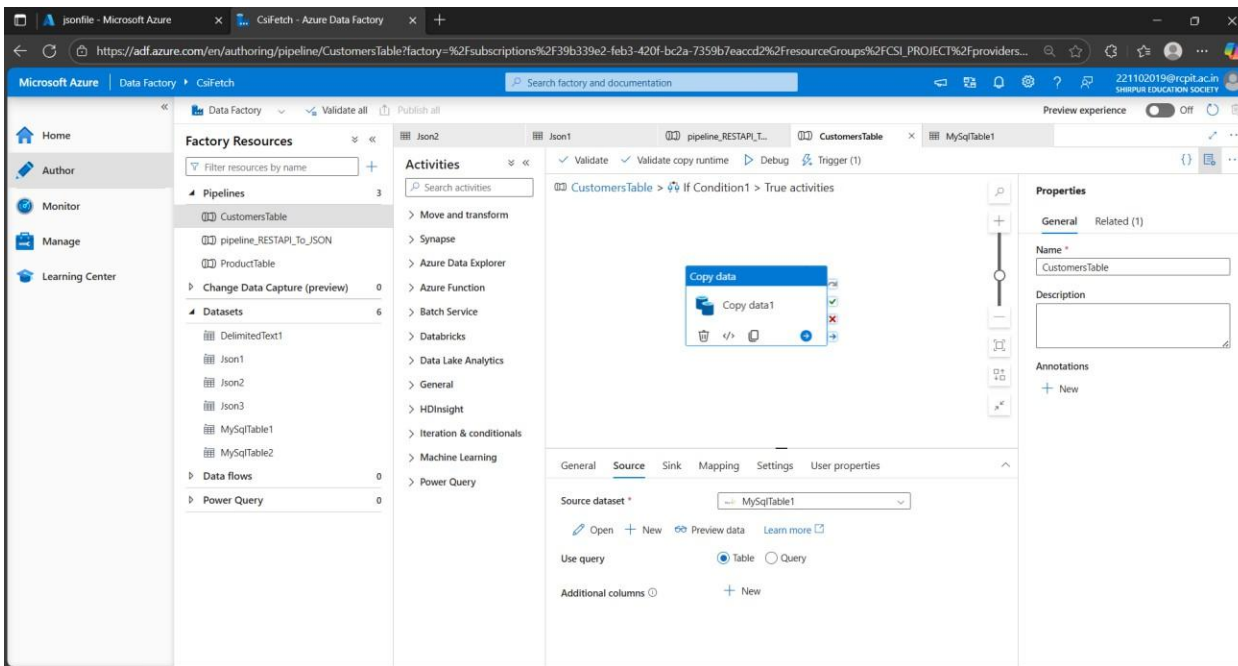
Step 5 : Implement IF Condition activity to check Condition Row Count >500.



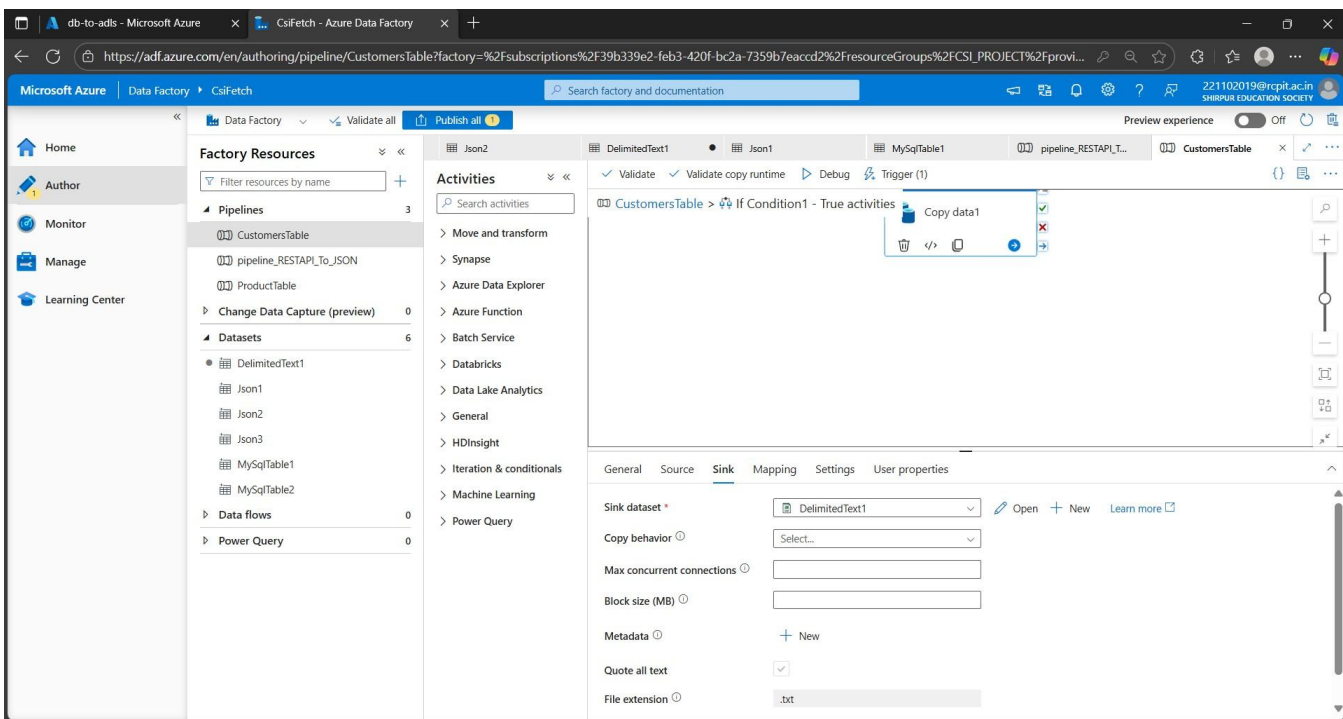
Step 6: Set If Activity Condition as Expression Builder



Step 7: Inside If Activity implement Copy Activity and Source Input set MySQLTable



Step 8: Copy Activity Sink Set CSV File as Storage File on Azure Data Lake Gen2.



Step 9 :After IF Condition Activity Success Connect This into Execute Pipeline Activity to Invoke the ProductTable Pipeline Activity to pass Customer Count into Another pipeline that pipeline is ProductTable Pipeline and Run this pipeline .

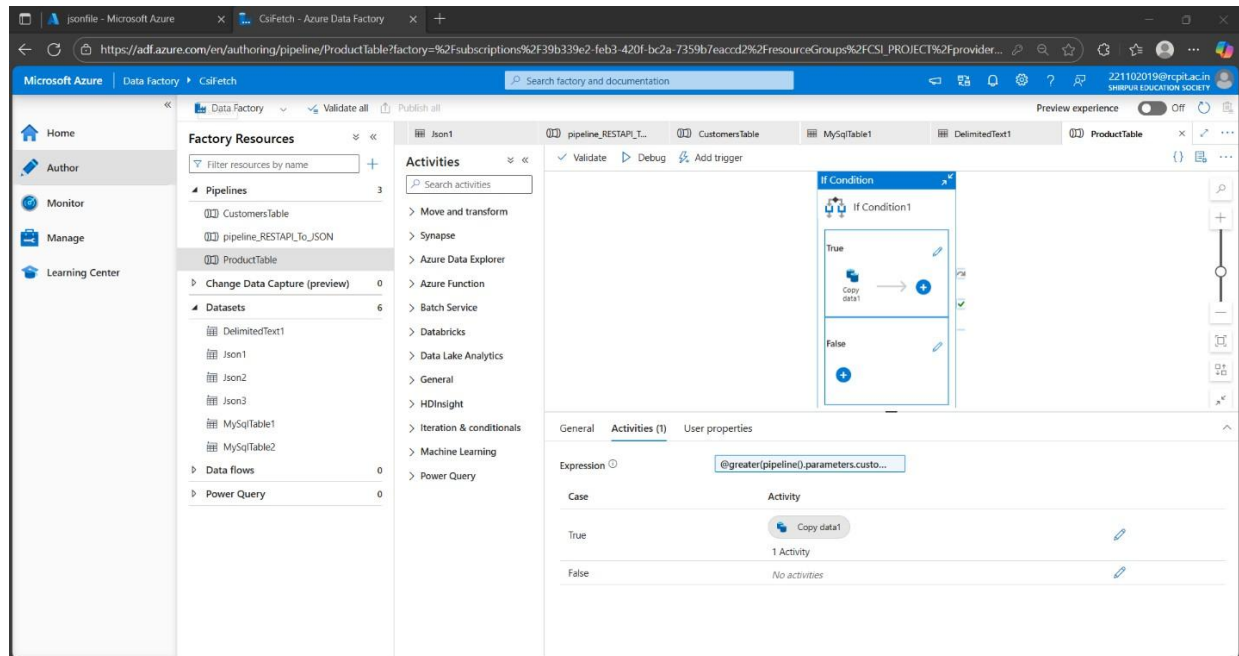
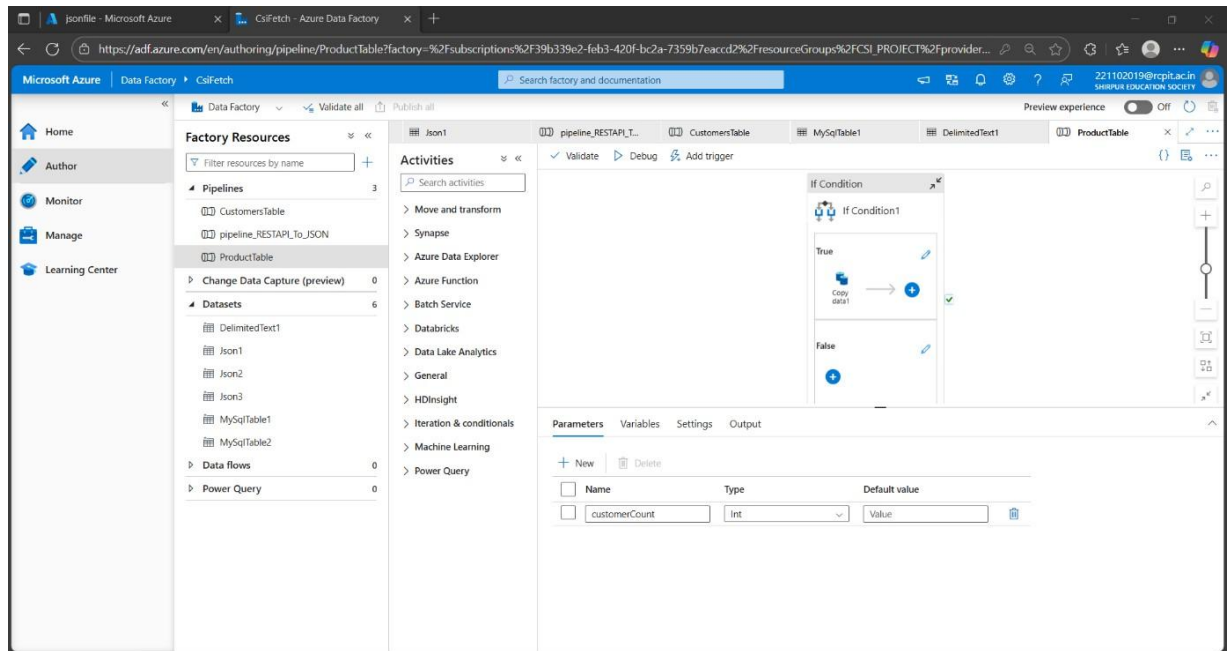
The image displays two screenshots of the Microsoft Azure Data Factory portal, illustrating the configuration of an 'Execute Pipeline' activity within a pipeline.

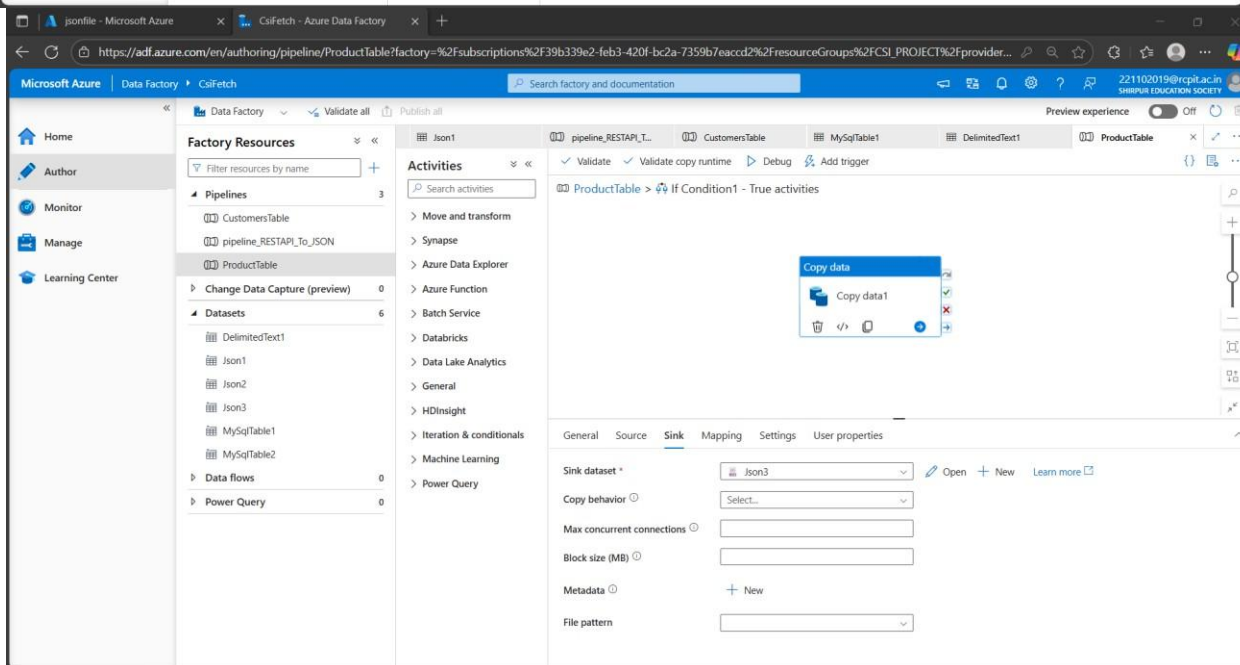
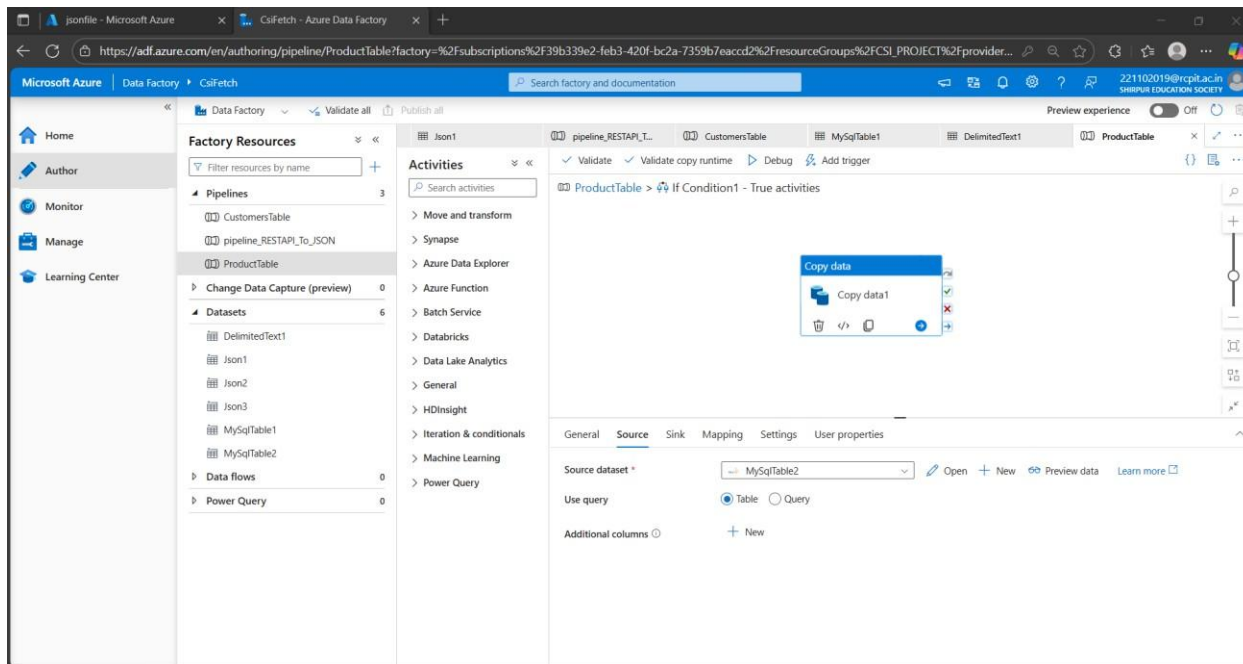
Top Screenshot: The 'General' tab of the 'Execute Pipeline' activity is selected. The activity is named 'Execute Pipeline1' and is set to 'Activated' state. The 'Name' field is 'Execute Pipeline1' and the 'Description' field is empty. The 'Activity state' is set to 'Activated' (radio button selected). The 'Secure input' checkbox is unchecked.

Bottom Screenshot: The 'Settings' tab of the 'Execute Pipeline' activity is selected. The 'Invoked pipeline' is set to 'ProductTable'. The 'Wait on completion' checkbox is checked. The 'Parameters' section shows a parameter named 'customerCount' of type 'int' with a value of '@int(variables('customerCount'))'.

The background of both screenshots shows the Azure Data Factory interface with the 'Factory Resources' pane on the left, listing pipelines and datasets. The 'Activities' pane in the center lists various activities like 'Move and transform', 'Synapse', 'Azure Data Explorer', etc. The 'Properties' pane on the right shows the configuration details for the selected activity.

Create ProductTable Pipeline and Set Parameter customerCount this same in CustomerTable Pipeline Execute Activity. And if condition check condition Row Count >600.





Step 10 : Execute Pipeline CustomerTable Pipeline are Execute as well Execute Activity to Execute Child Pipeline as passing parameter.

The screenshot displays the Microsoft Azure Data Factory Authoring interface. The left sidebar shows the 'Factory Resources' tree with 'Pipelines' expanded, listing 'CustomersTable'. The main canvas shows the 'CustomersTable' pipeline diagram, which includes a 'Lookup' activity, a 'Set variable' activity, an 'If Condition' activity, and an 'Execute Pipeline' activity. The 'Execute Pipeline' activity is configured to execute the 'ProductTable' pipeline. The 'Output' tab at the bottom shows the execution history for the pipeline run ID '4026aace-9f7b-4139-931f-7c6ac788eb2d'. The pipeline status is 'Succeeded'.

Activity name	Activity status	Activity name	Run start	Duration	Integration runtime
Execute Pipeline1	Succeeded	Execute Pipeline1	7/15/2025, 7:25:50 PM	27s	
Copy data1	Succeeded	Copy data1	7/15/2025, 7:25:21 PM	27s	integrationRuntimeSystem
If Condition1	Succeeded	If Condition1	7/15/2025, 7:25:20 PM	29s	
Set variable1	Succeeded	Set variable1	7/15/2025, 7:25:19 PM	Less than 1s	

This screenshot shows the 'Output' tab for the 'CustomersTable' pipeline. The 'Output' tab displays the 'Copy to clipboard' button and the 'Name' and 'Value' columns. The 'pipelineRunId' is 'a2ac4270-4473-46d1-b122...' and the 'pipelineName' is 'ProductTable'. The 'Pipeline status' is 'Succeeded'. The 'Run start' and 'Duration' columns are also visible. The 'Integration runtime' column is 'integrationRuntimeSystem'.

Name	Value
pipelineRunId	a2ac4270-4473-46d1-b122...
pipelineName	ProductTable

Activity name	Activity status	Activity name	Run start	Duration	Integration runtime
Execute Pipeline1	Succeeded	Execute Pipeline1	7/15/2025, 7:25:50 PM	27s	
Copy data1	Succeeded	Copy data1	7/15/2025, 7:25:21 PM	27s	integrationRuntimeSystem
If Condition1	Succeeded	If Condition1	7/15/2025, 7:25:20 PM	29s	
Set variable1	Succeeded	Set variable1	7/15/2025, 7:25:19 PM	Less than 1s	

ProductTable (Child Pipeline) Pipeline Execute as Auto Passing Parameter into CustomerTable pipeline (Parent Pipeline)and Trigger

The screenshot shows the Microsoft Azure Data Factory interface. The left sidebar displays the 'Factory Resources' tree, including 'Pipelines' and 'Datasets'. The main canvas shows a pipeline diagram with an 'If Condition' activity. The 'Pipeline run ID' is 'a2ac4270-4473-46d1-b122-25bd3cd4e7af'. The 'Pipeline status' is 'Succeeded'. The 'Output' tab shows a table with the following data:

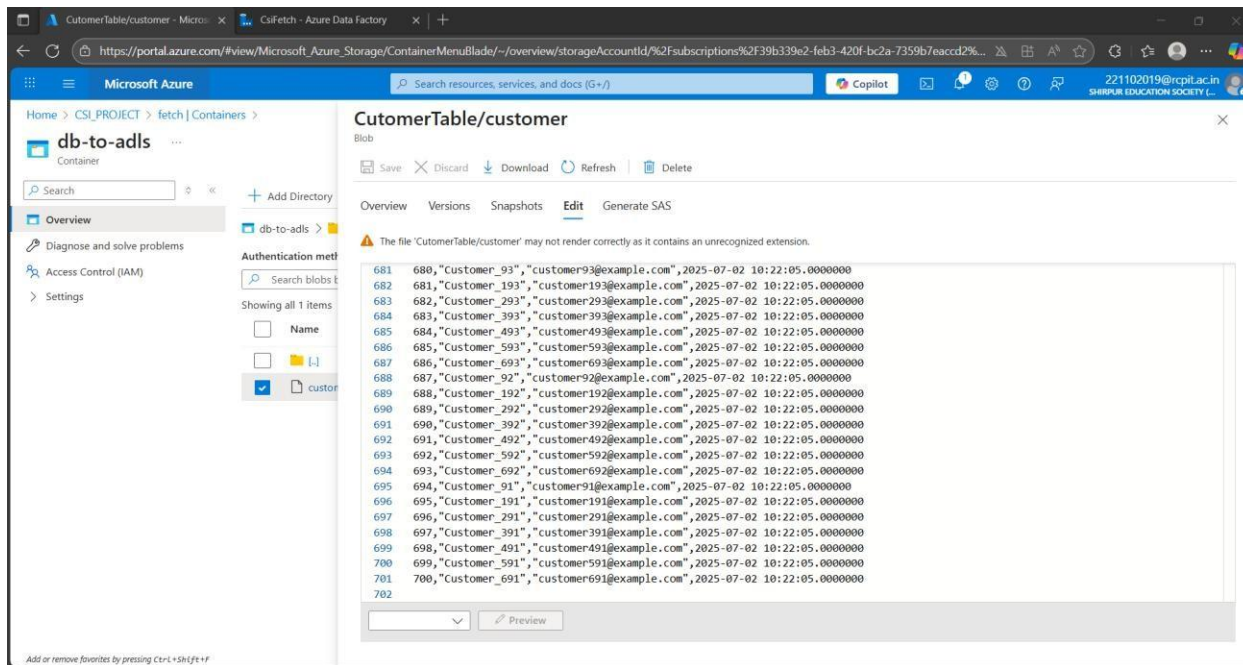
Activity name	Activity status	Activity type	Run start	Duration	Integration runtime
Copy data1	Succeeded	Copy data	7/15/2025, 7:25:52 PM	22s	integrationRuntimeSystem
If Condition1	Succeeded	If Condition	7/15/2025, 7:25:52 PM	23s	

Container of this all file are Store :

The screenshot shows the Microsoft Azure portal interface for the 'db-to-adls' container. The container contains the following files:

Name	Last modified	Access tier	Blob type	Size	Lease state
CustomerTable	7/15/2025, 7:37:00 PM	Hot (Inferred)	Block blob	0	Available
ProductPipeline	7/15/2025, 11:57:39 AM	Hot (Inferred)	Block blob	0	Available
concat(customer)	7/14/2025, 10:14:36 PM	Hot (Inferred)	Block blob	0	Available

CustomerTable(Parent Pipeline) Pipeline Output As CSV:



ProductTable(Child Pipeline) Pipeline Output as JSON

