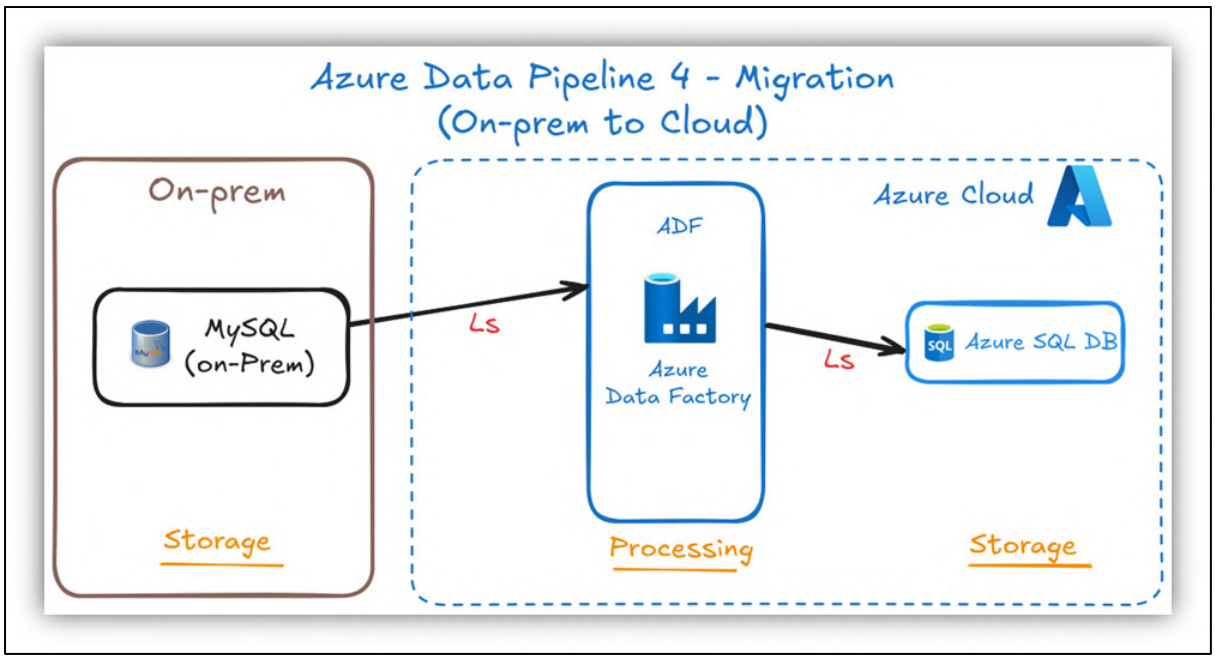
DATA MIGRATION PROJECT – ON PREM TO AZURE CLOUD



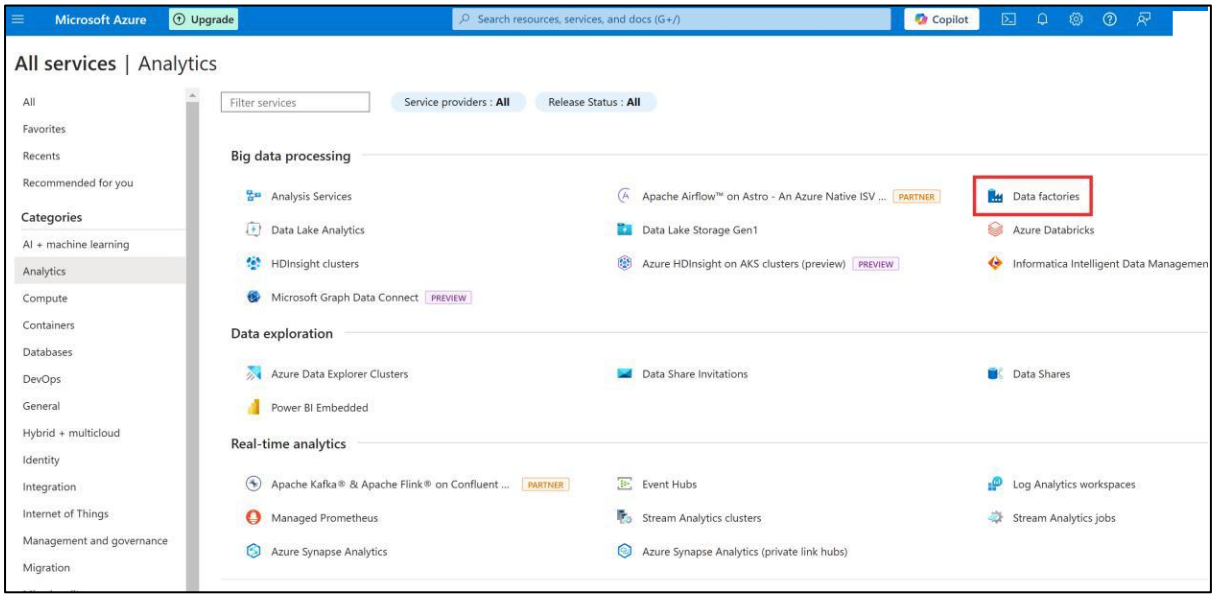
Architecture Diagram

Steps Involved -

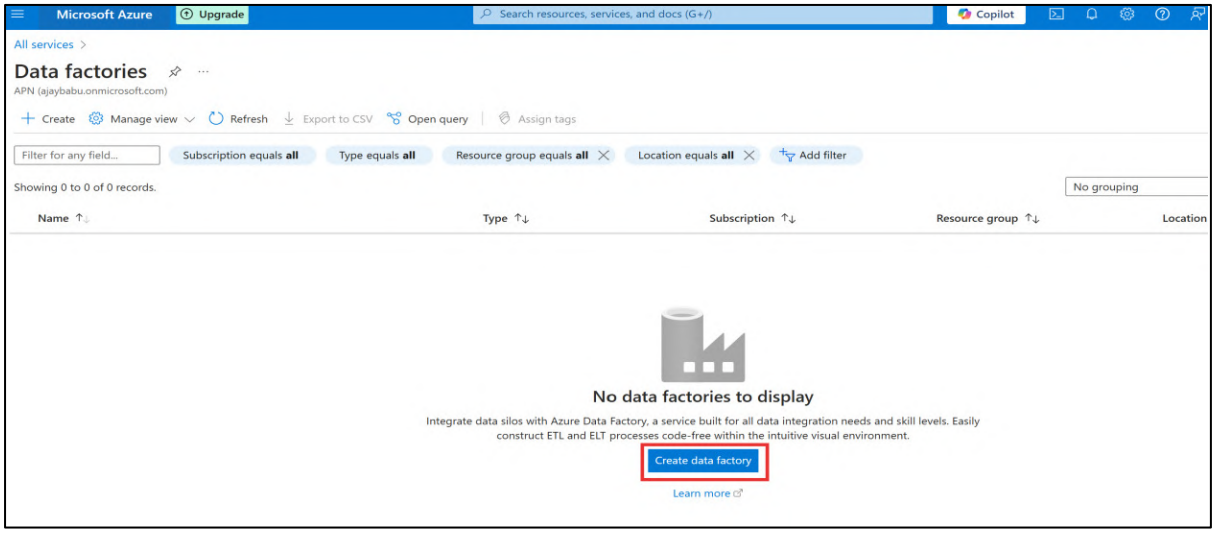
1. MySQL On-Premises Data
2. Azure Data Factory Creation
3. Azure SQL Database Creation
4. Creating Linked Services
5. Creation of Pipeline
6. Run the Pipeline
7. End-to-End Testing

Creation of Azure Data Factory:

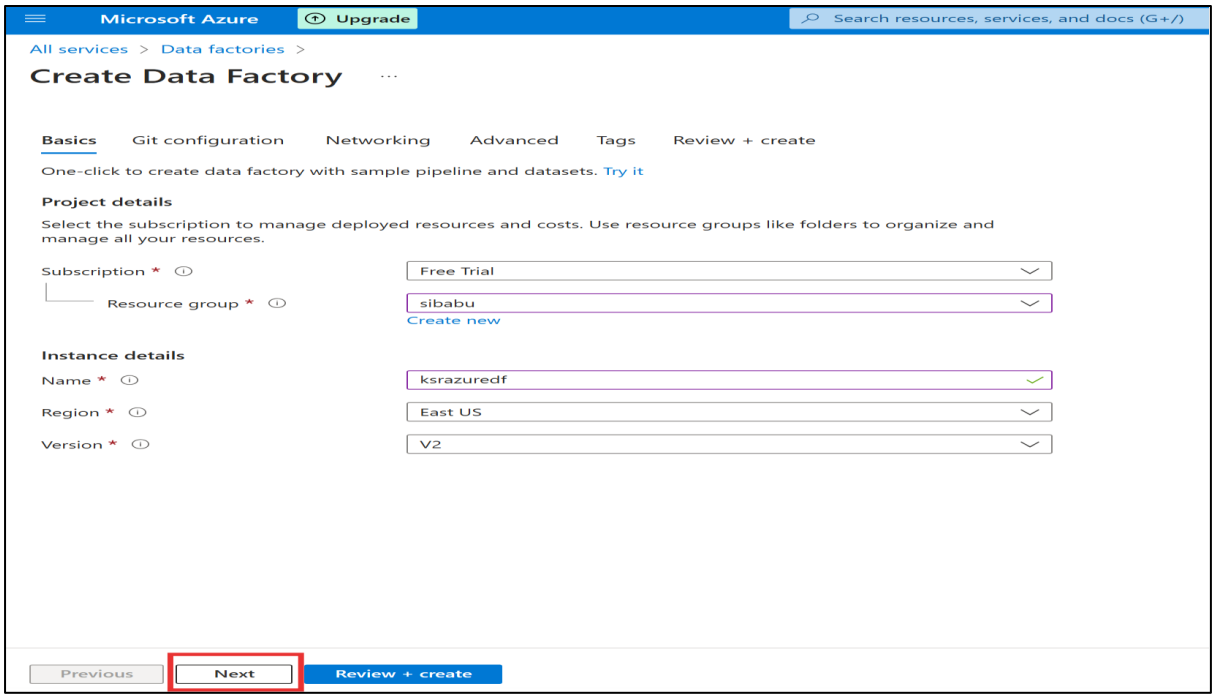
Step1: Create Data factories in red colour box



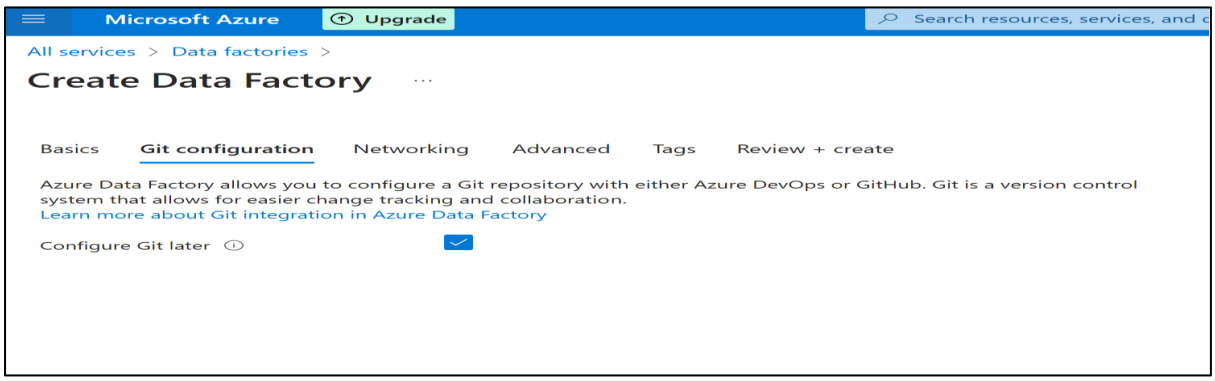
Step 2: Create Data factories in red colour box



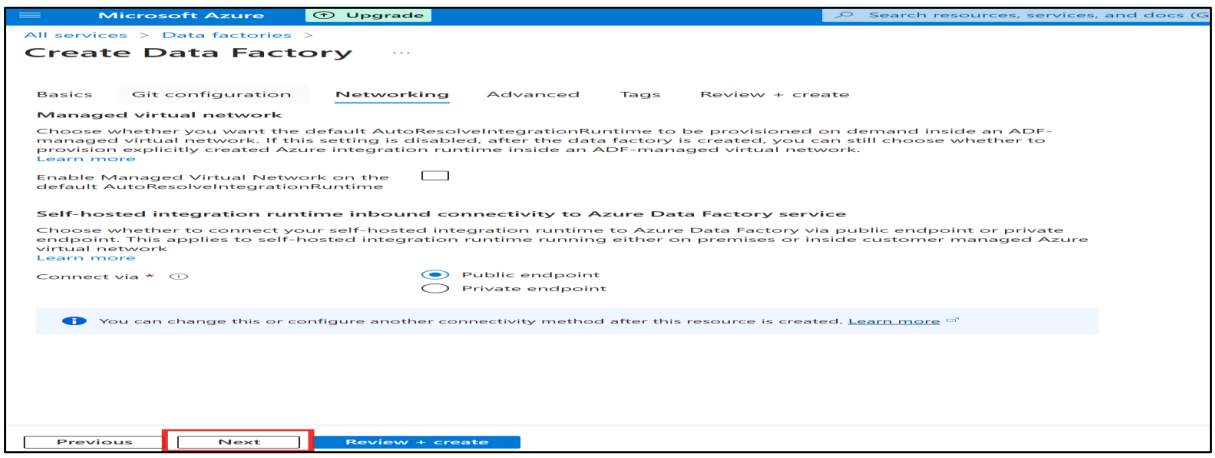
Step 3: Fill the form accordingly and click on next



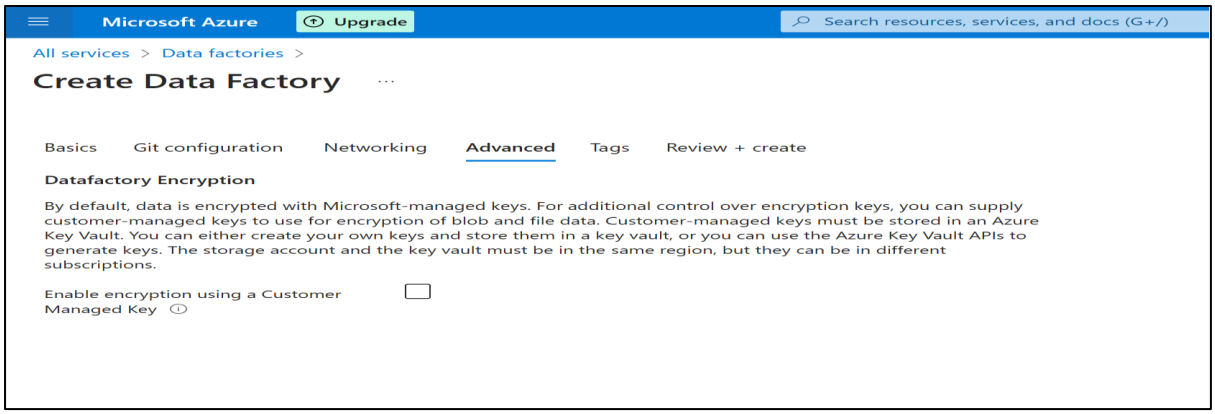
Step 4: Check the Configure Git Later box and click next



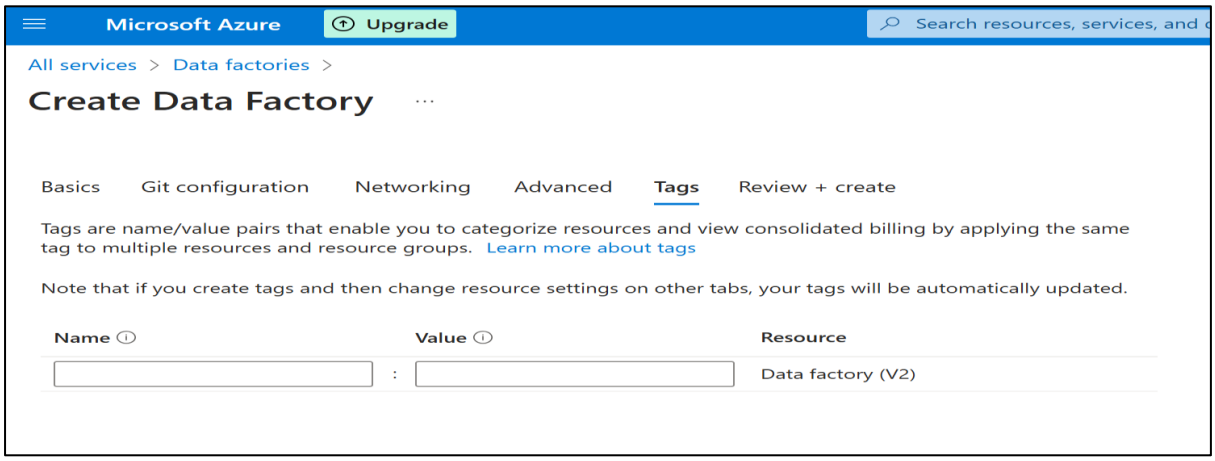
Step 5: Keep the options as-is and click next



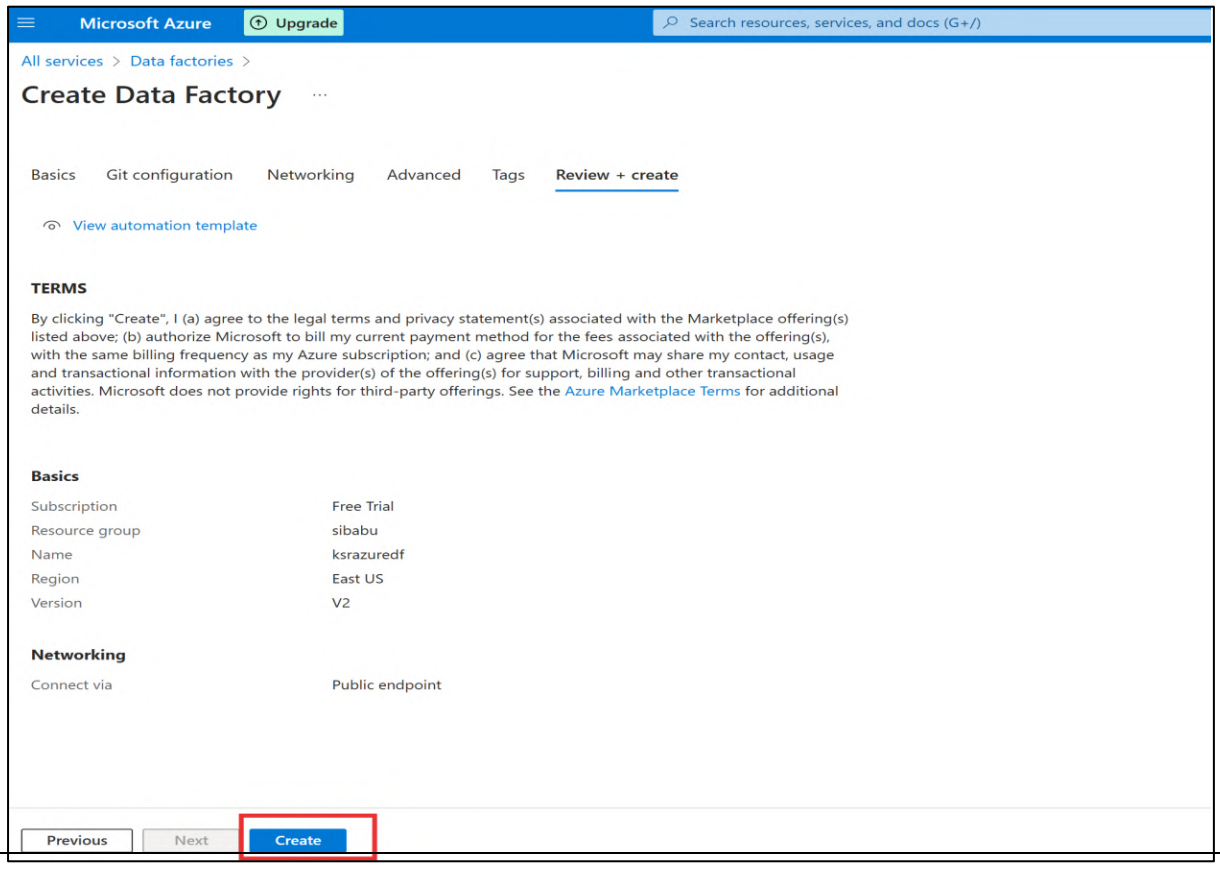
Step 6: Keep the options as-is and click next



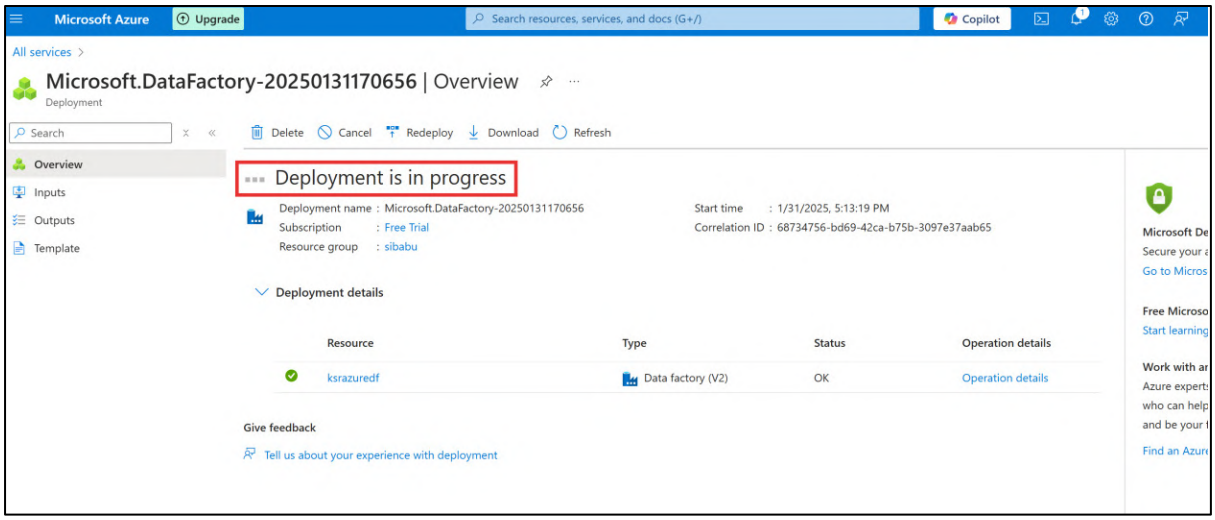
Step 7: Keep the options as-is and click next



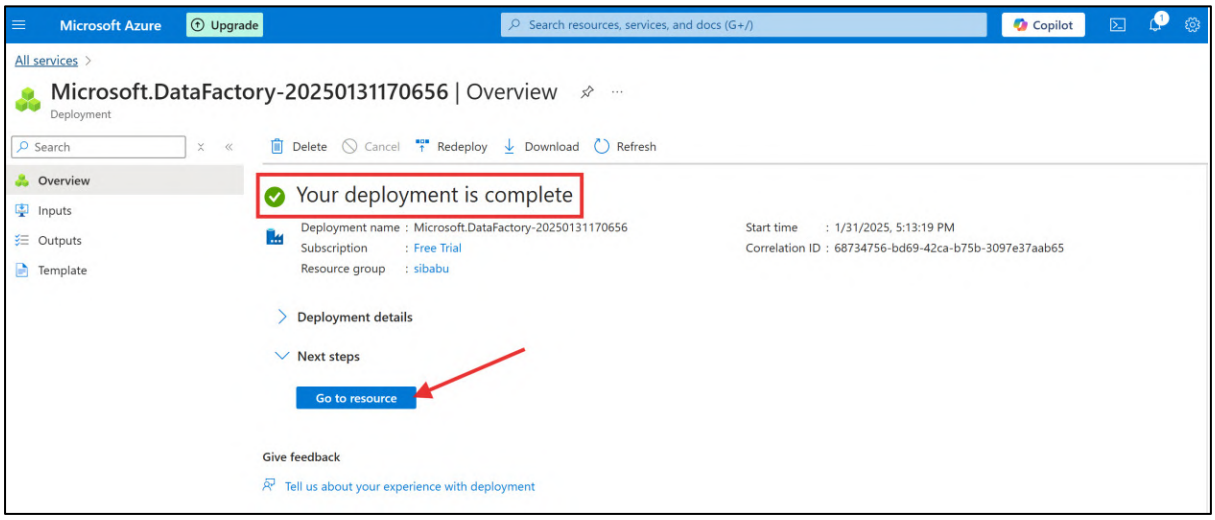
Step 8: Now validation completed and click on create



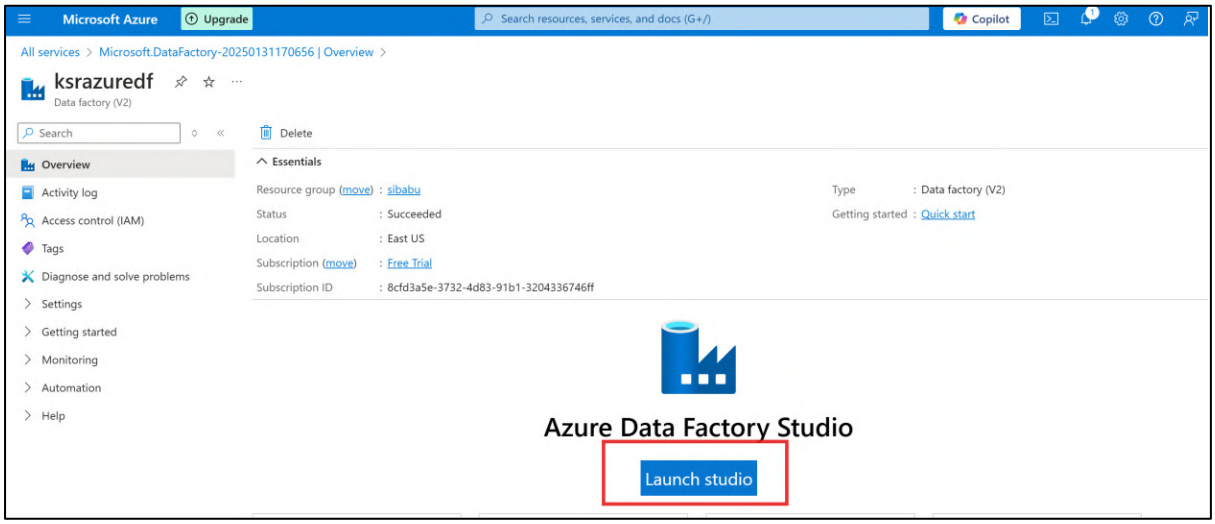
Step 9: Now Deployment in-progress



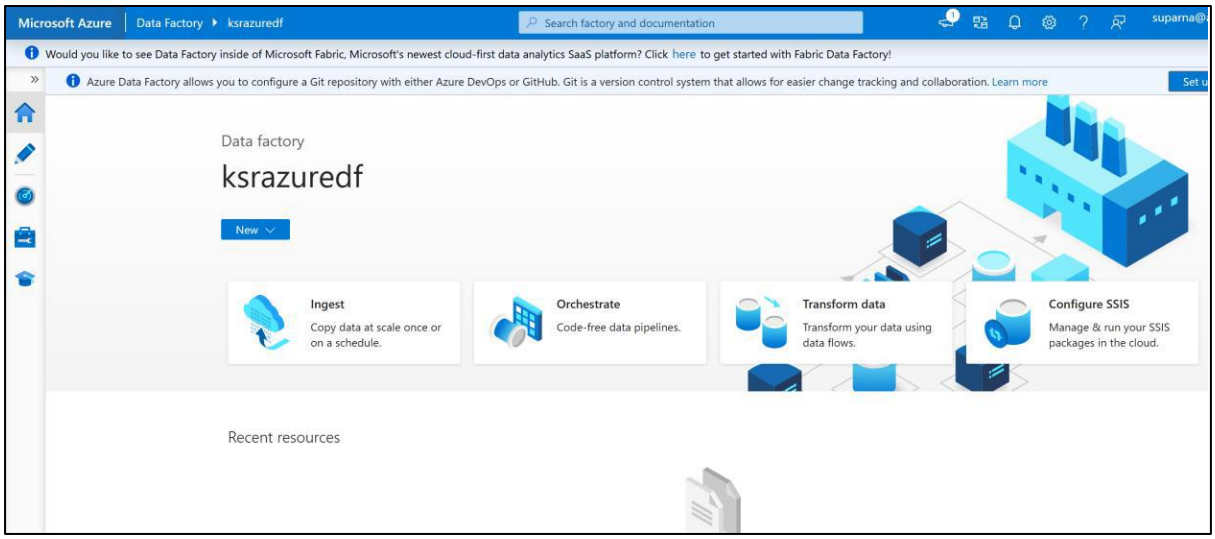
Step 10: Now deployment completed and click on Go to resource.



Step 11: Now you'll be see this and click on Launch studio.

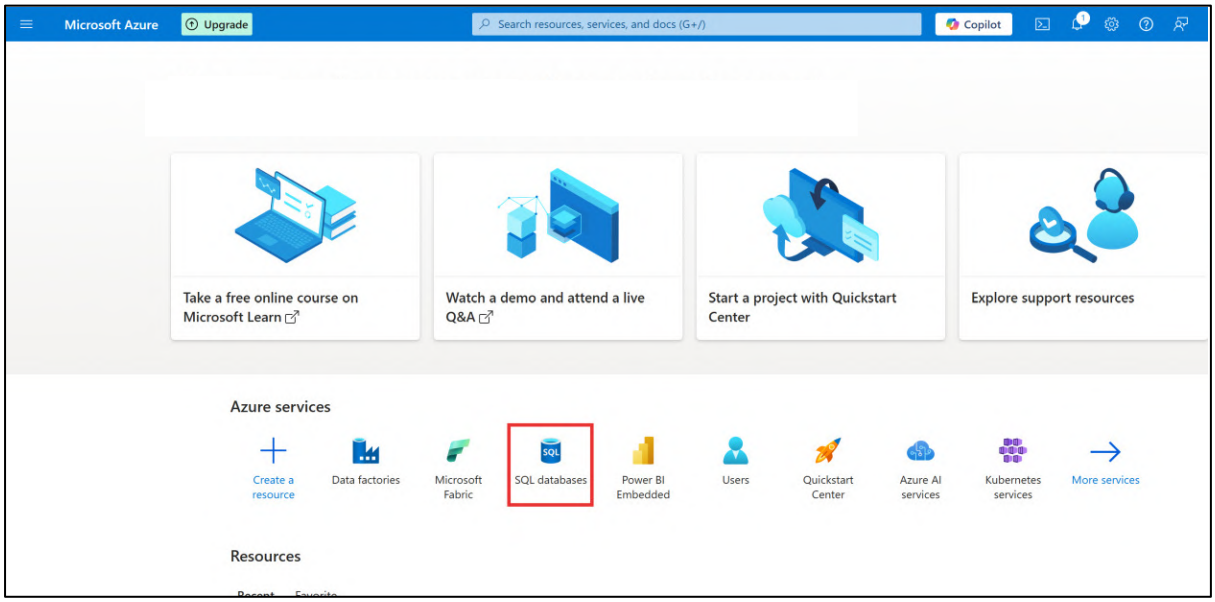


Step 12: Now you'll be able see the UI of ADF.

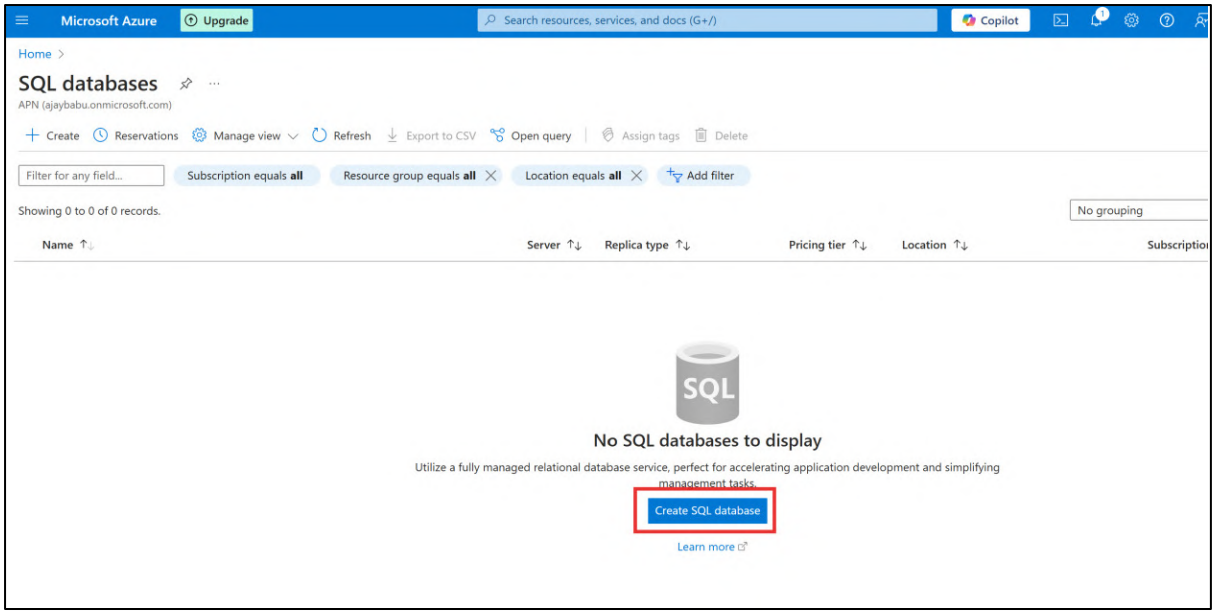


Creation of Azure SQL Database:

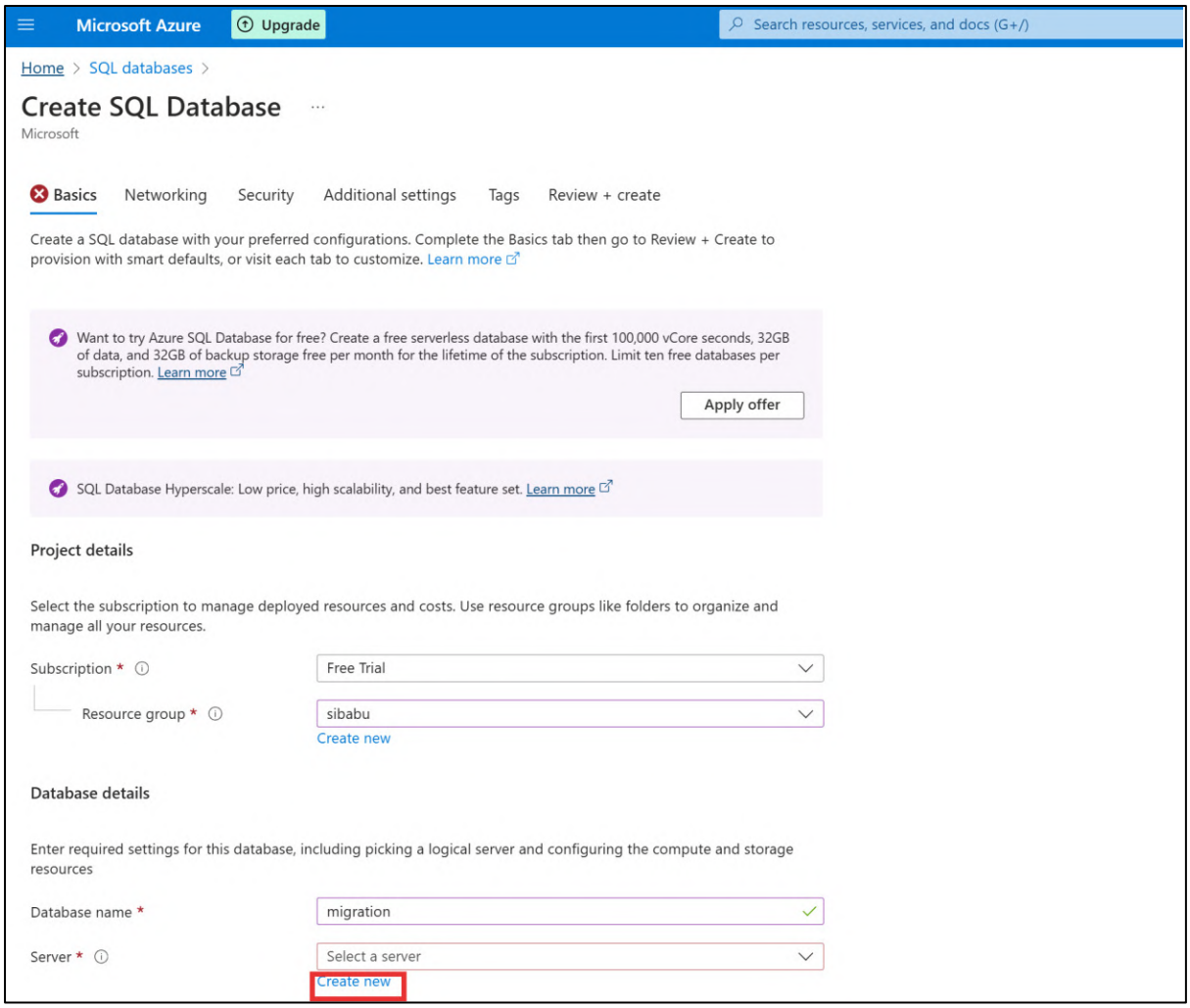
Step 1: Click on SQL Databases



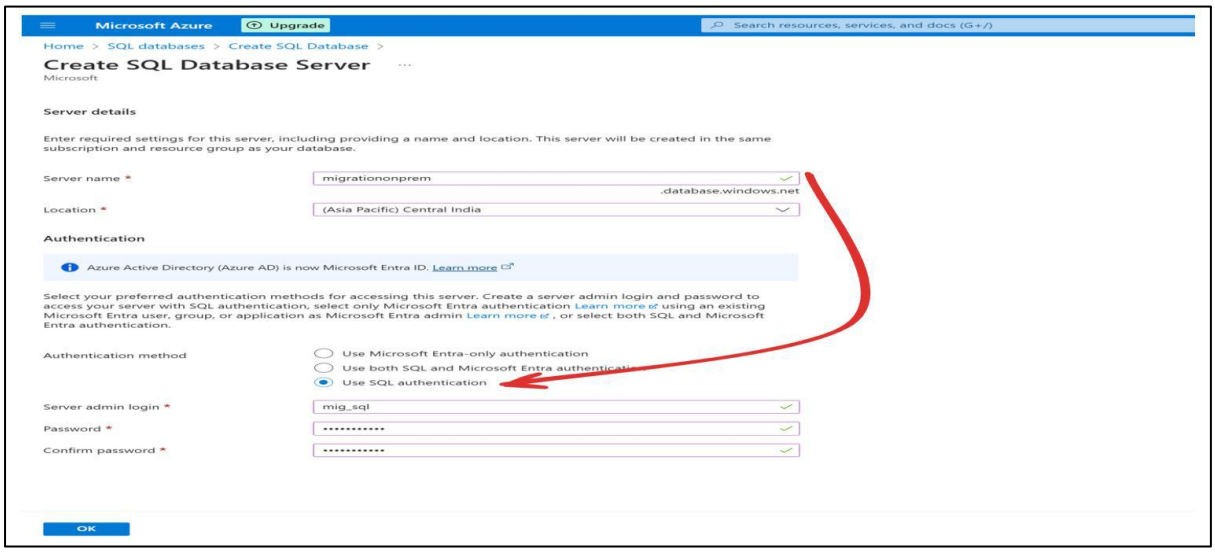
Step 2: Click on Create SQL database



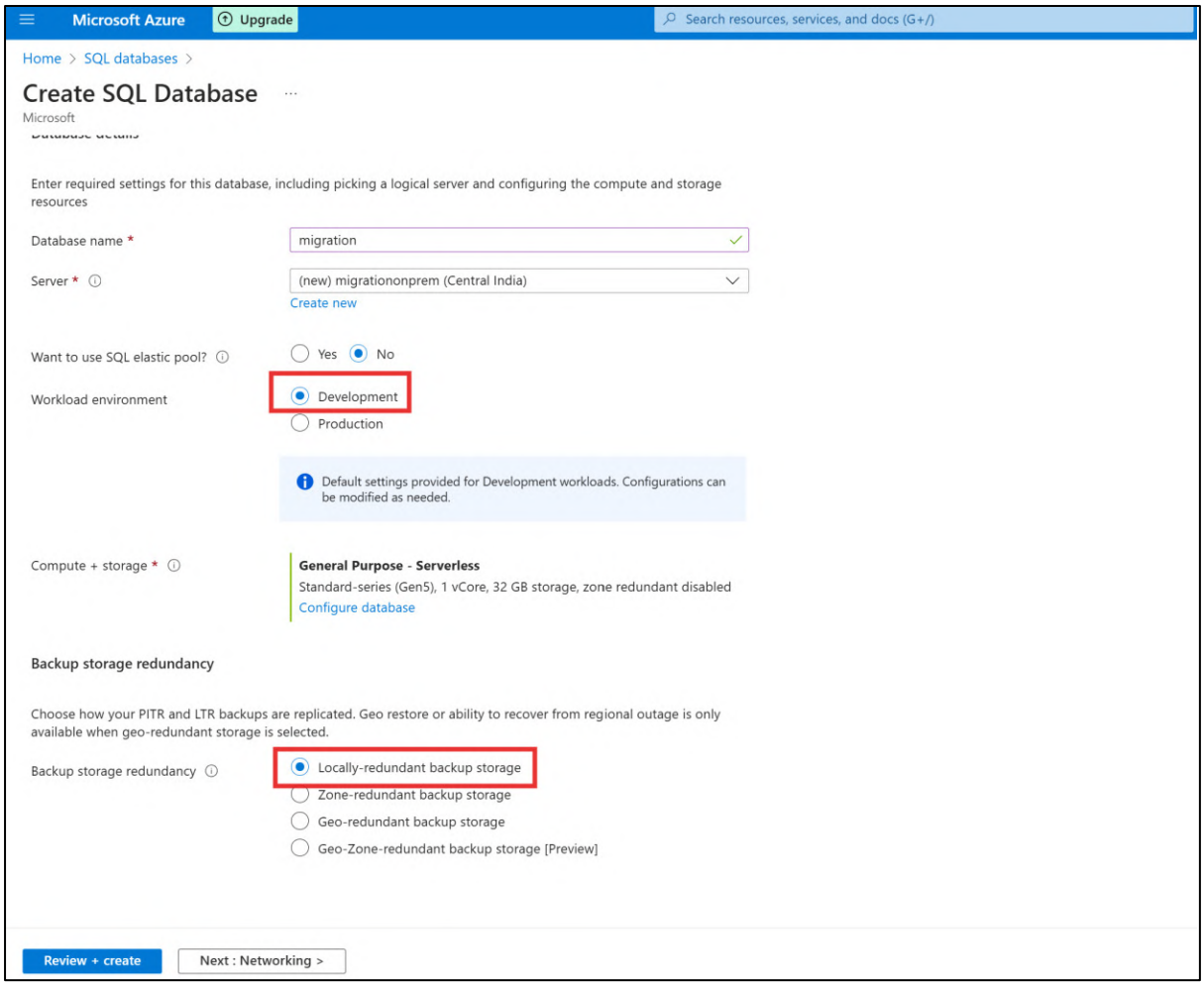
Step 3: Fill the form accordingly and Click on Create New server



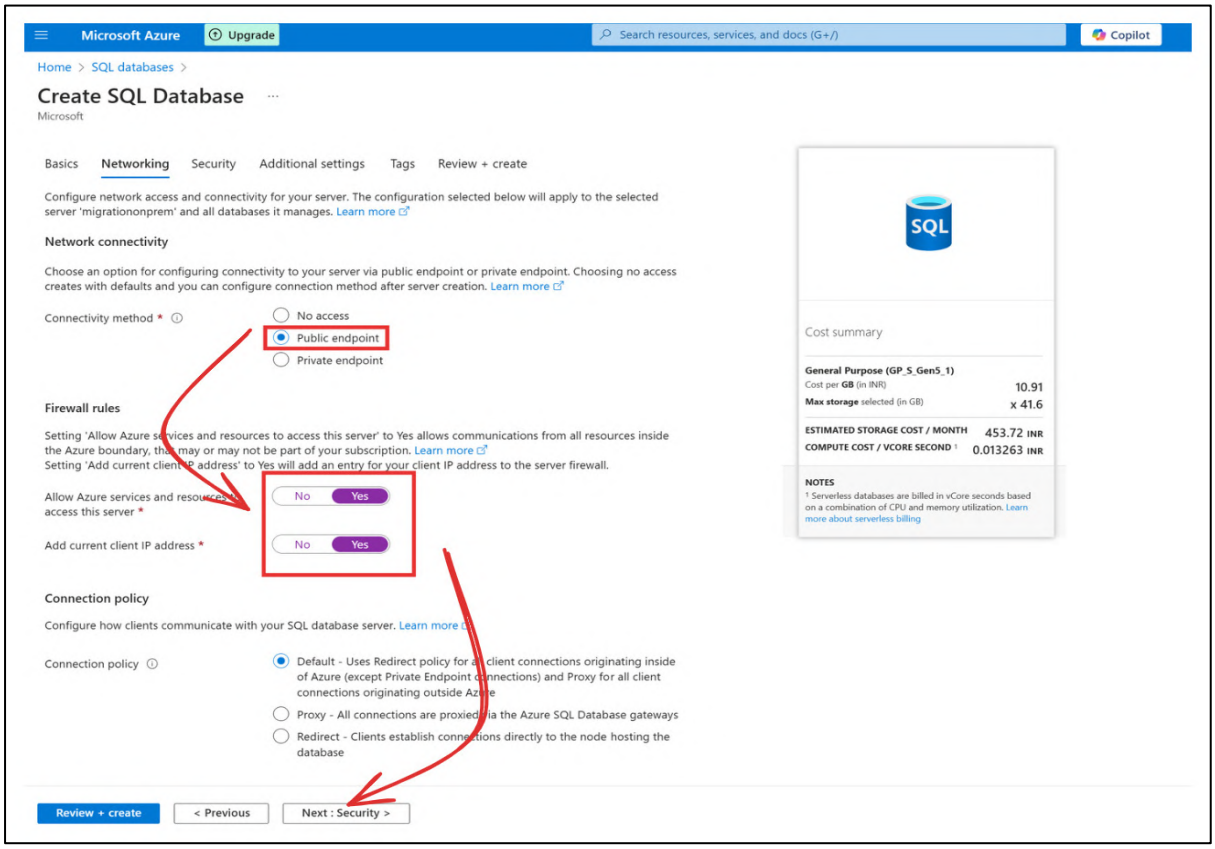
Step 4: Fill the form and click ok



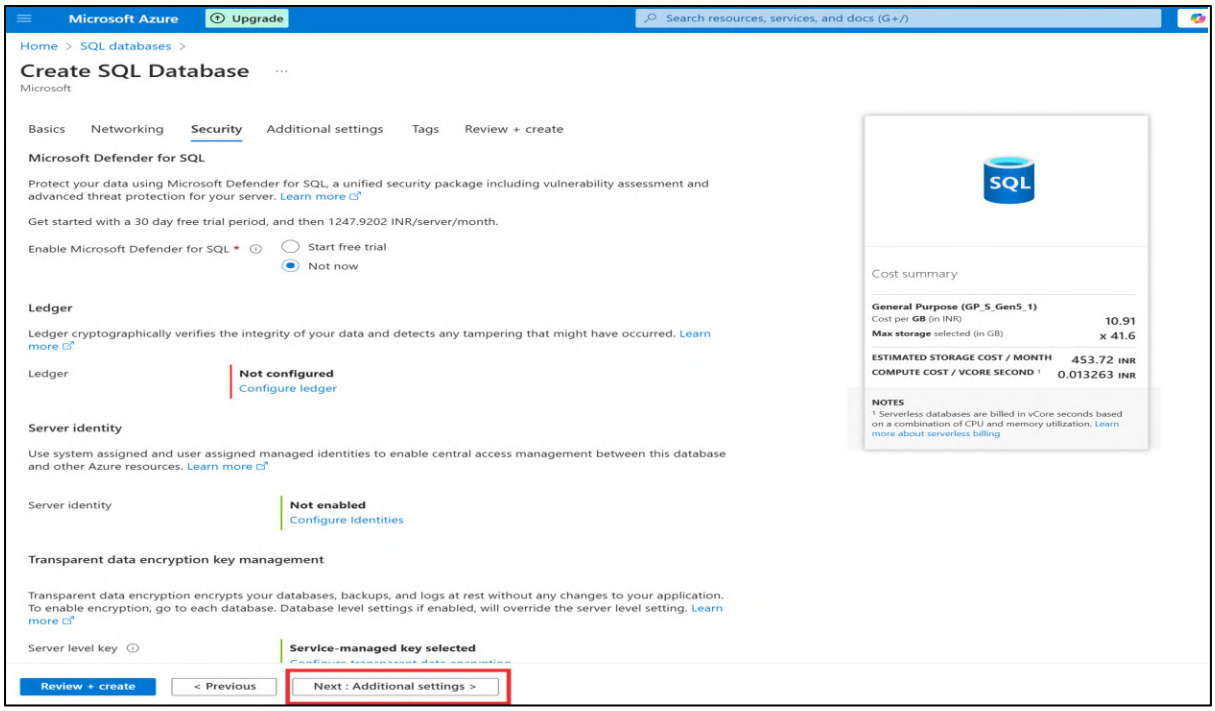
Step 5: Fill the remaining portion of step 2 and click next



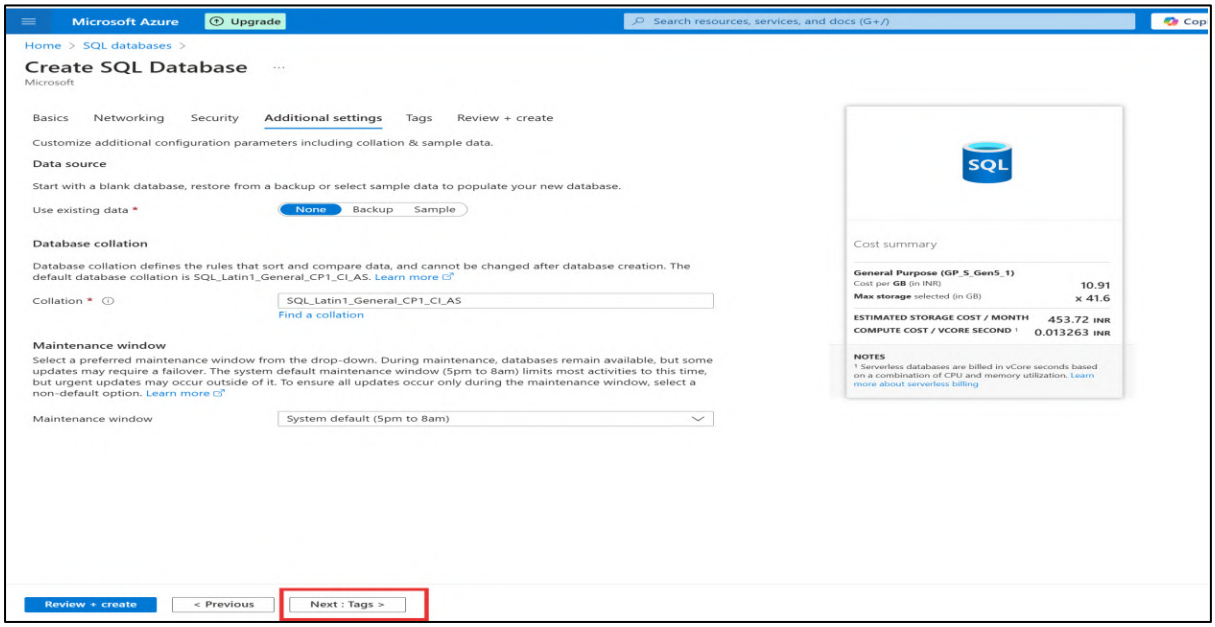
Step 6: Select Public-end point and select Yes and then click on next



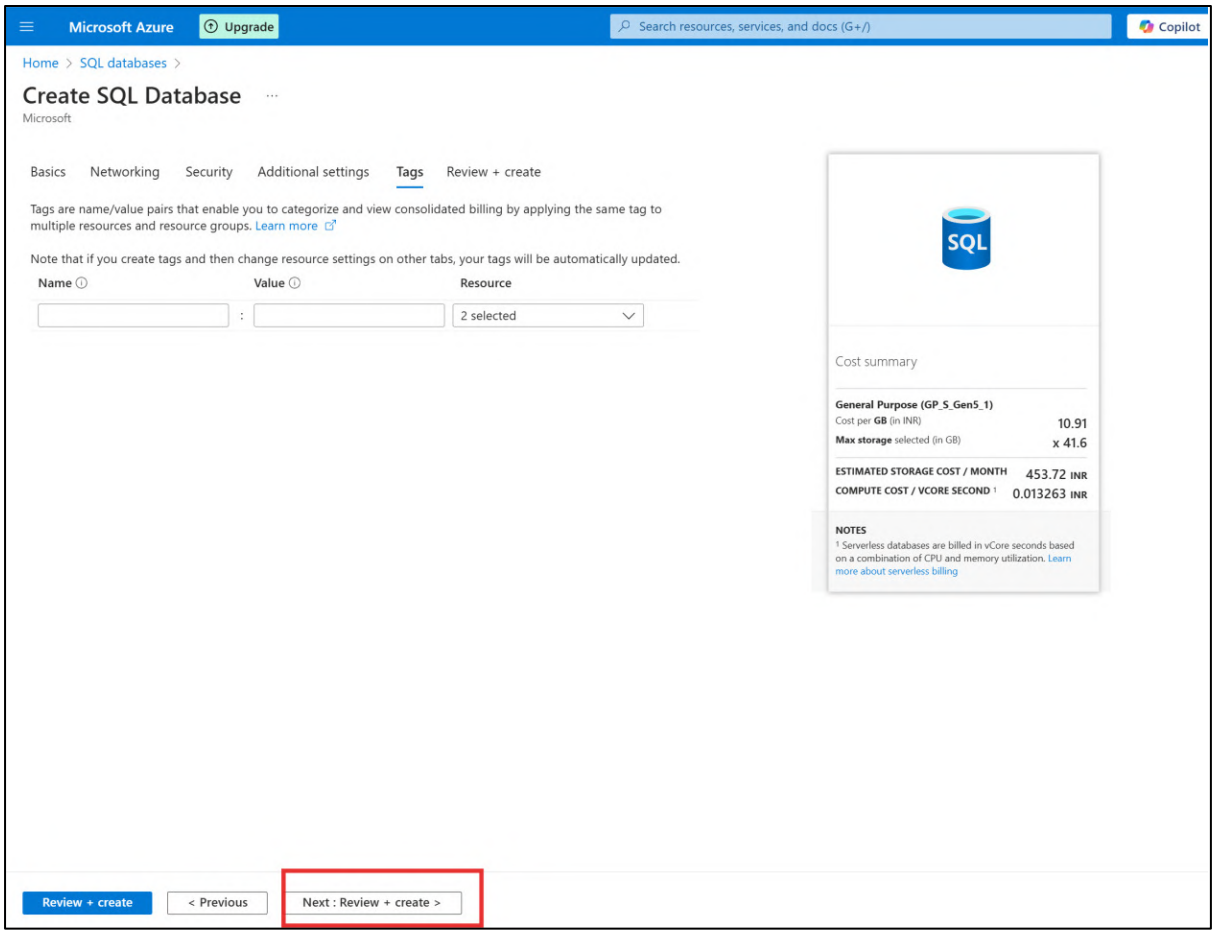
Step 7: Keep this page as-is and click on next.



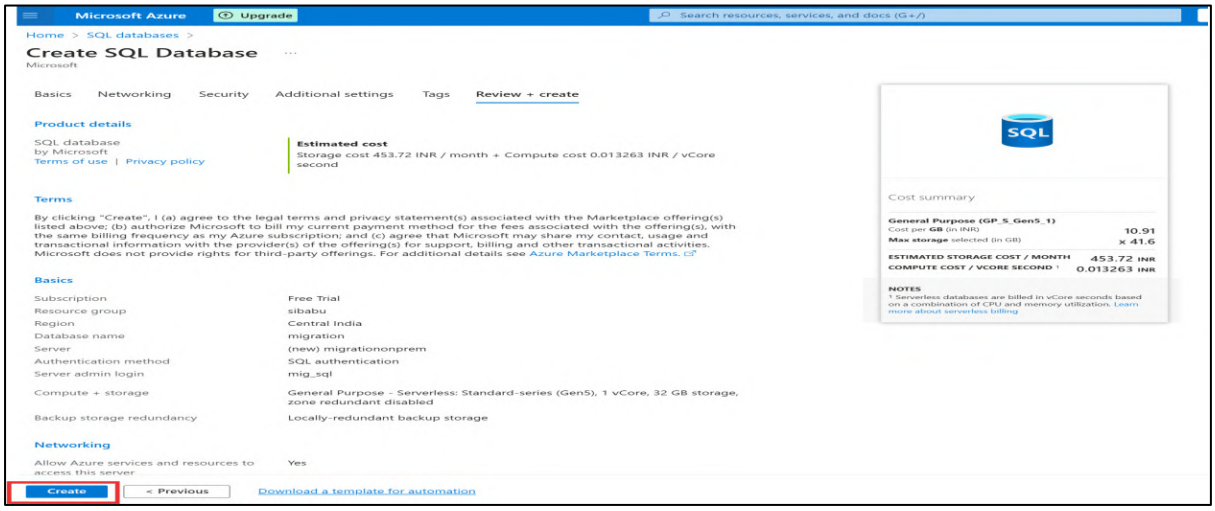
Step 8: Keep this page as-is and click on next.



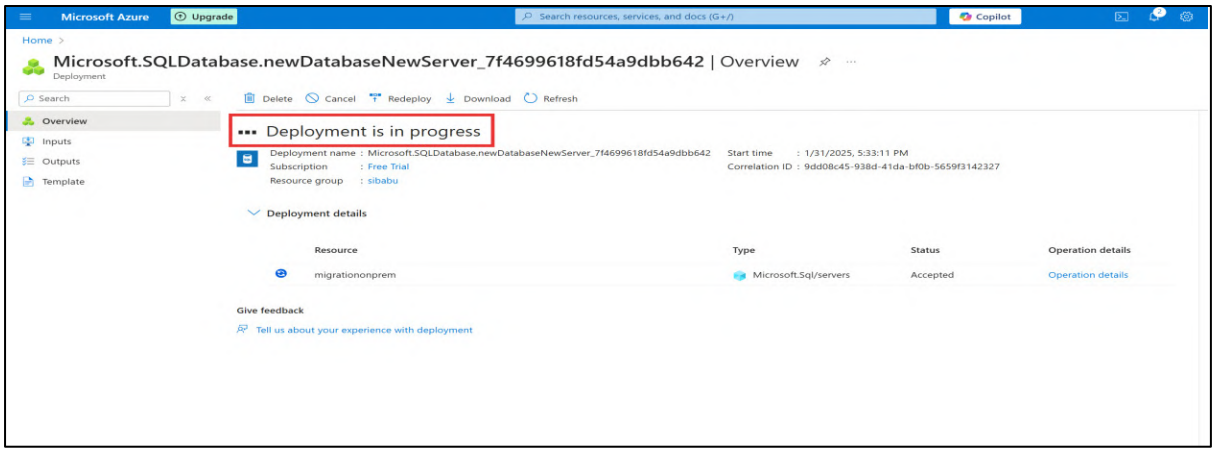
Step 9: Keep this page as-is and click on review+create.



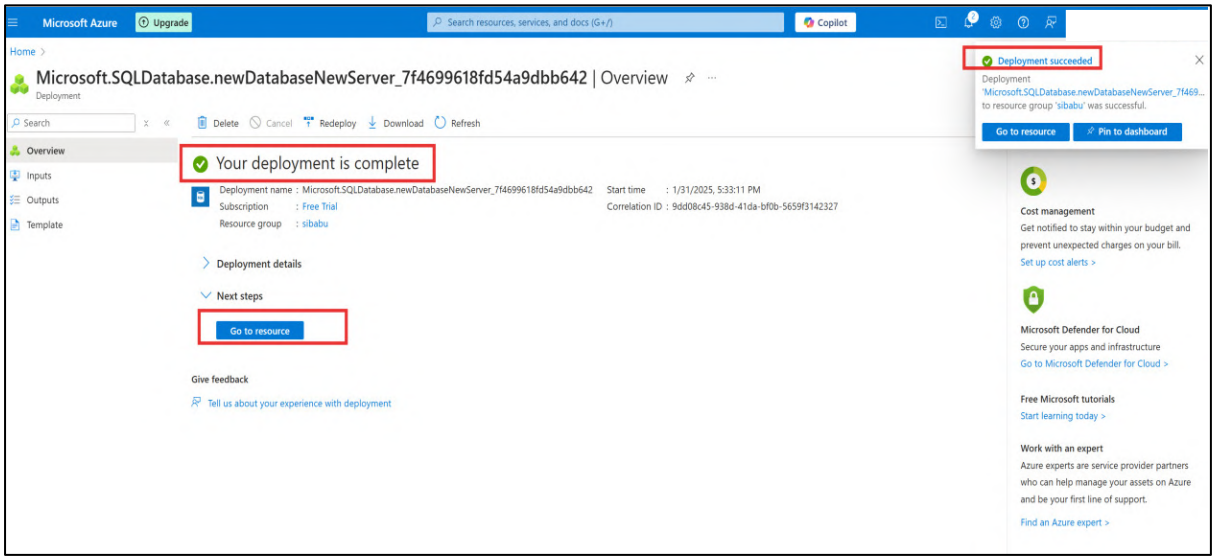
Step 10: Now click on create



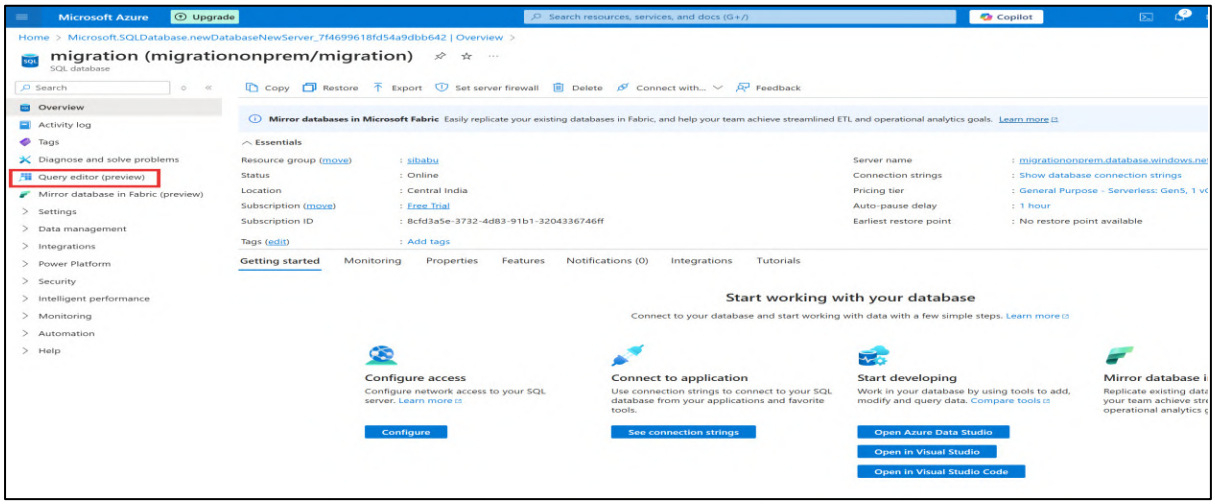
Step 11: Deployment is in progress



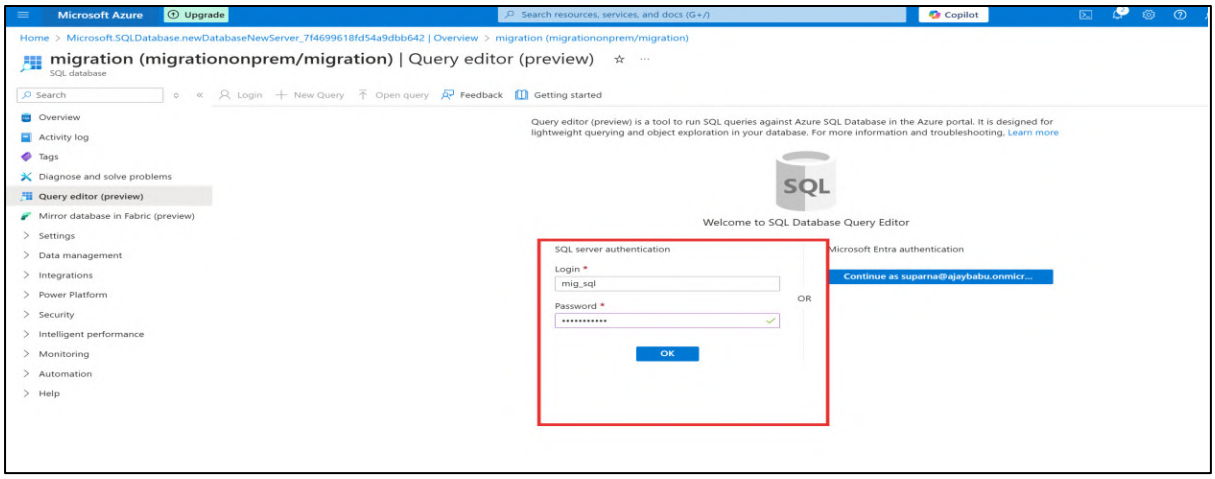
Step 12: Deployment succeeded and click on Go to resource



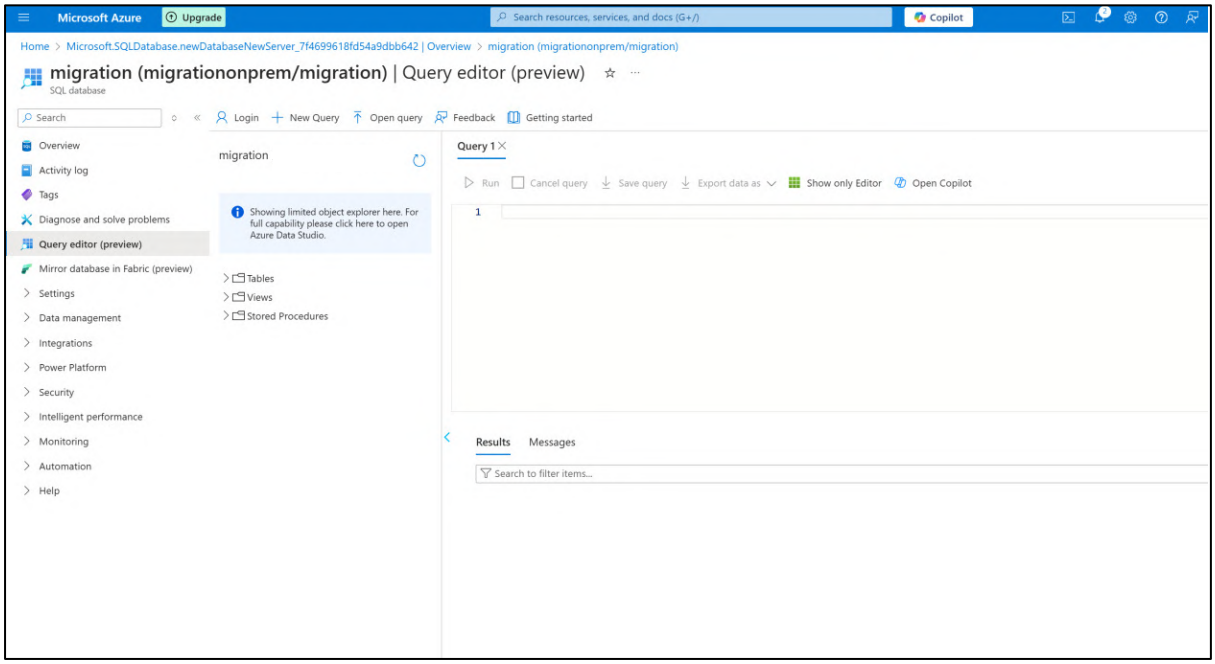
Step 13: Now you are able to view SQL Database UI and click on Query editor



Step 14: Now enter your credentials and click on OK

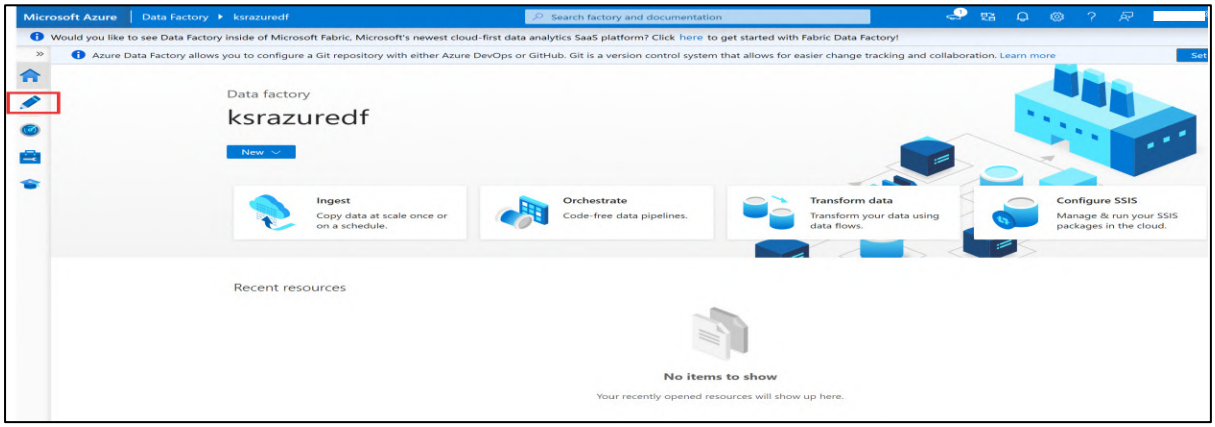


Step 15: Now you are able to view SQL Database Editor.

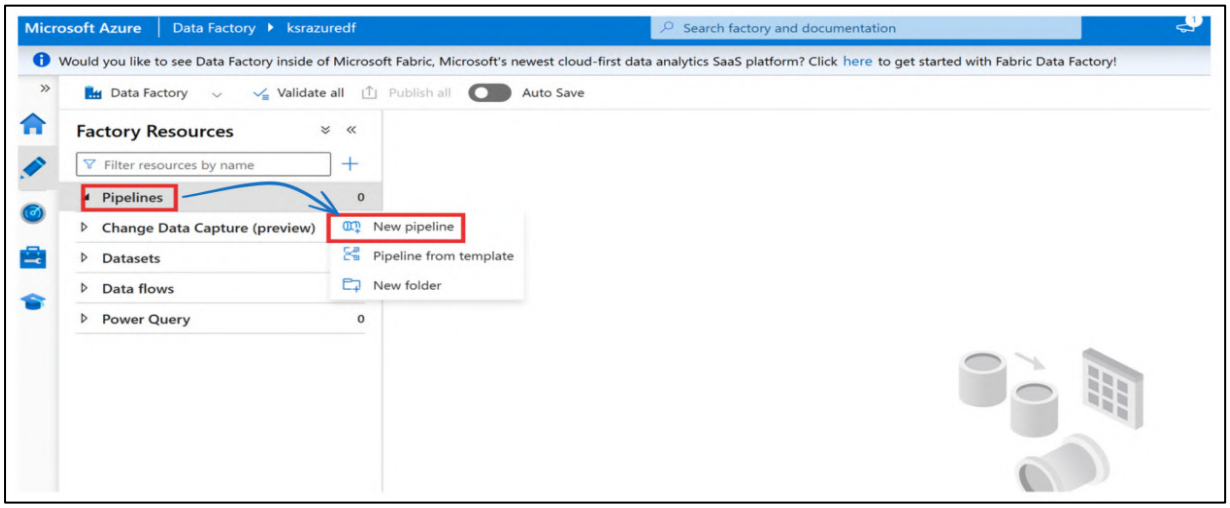


Now we can start the process of implementing the process of migration

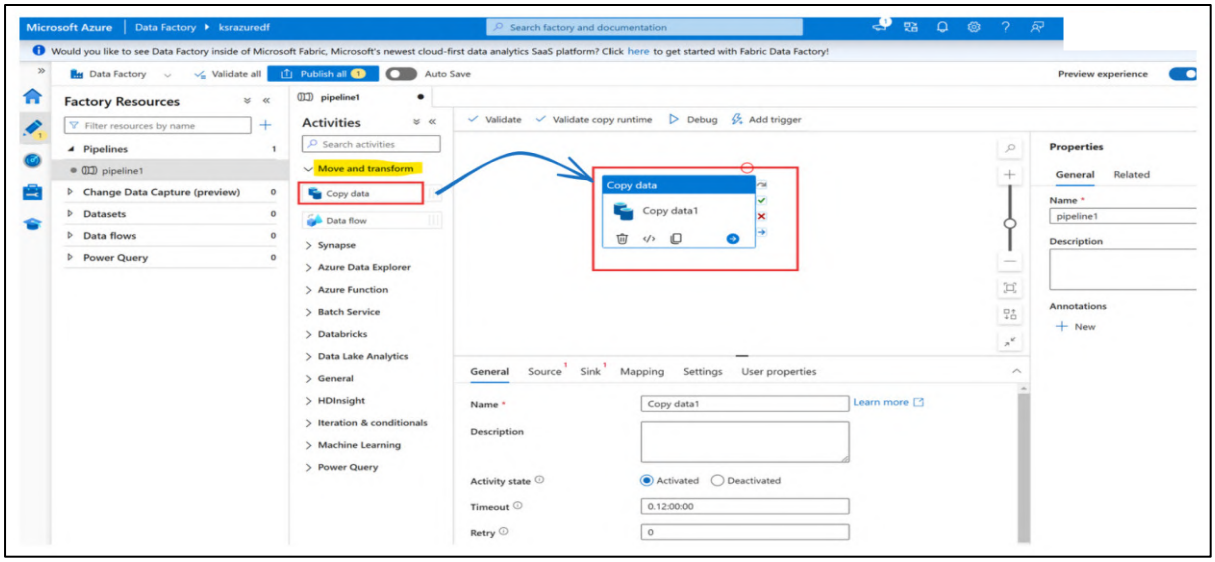
Step 1: Click on pencil icon



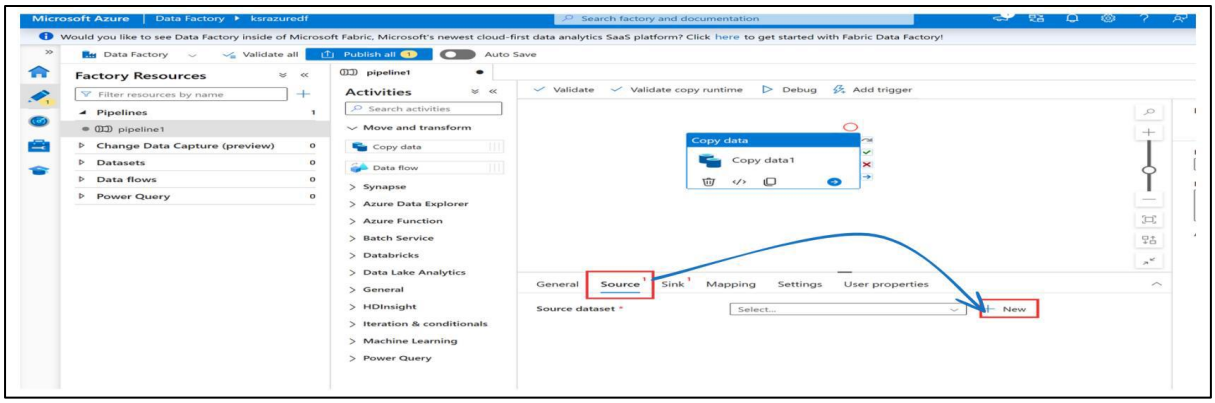
Step 2: After clicking Pencil Icon Now you click on Pipelines and click on New pipeline



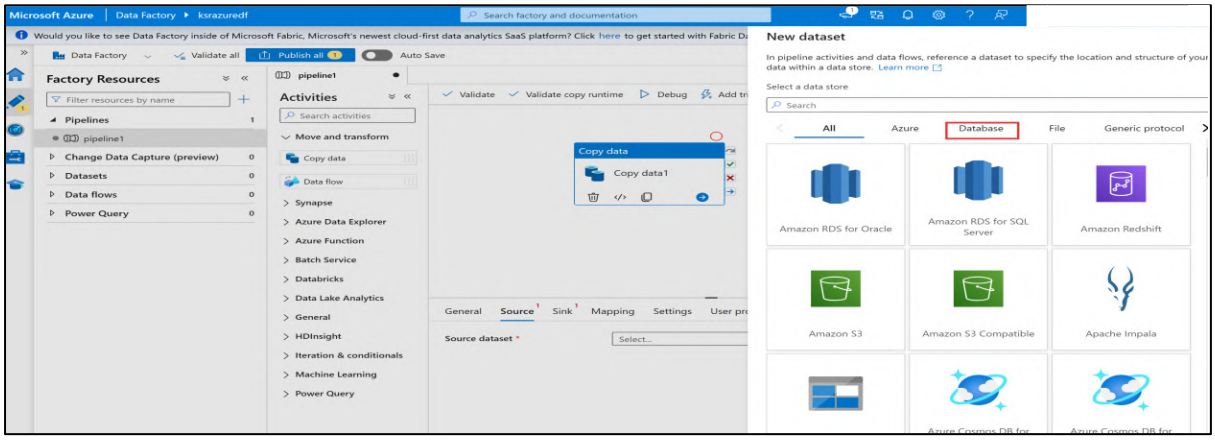
Step 3: Click on dropdown of Move and Transform then drag the Copy data into canvas



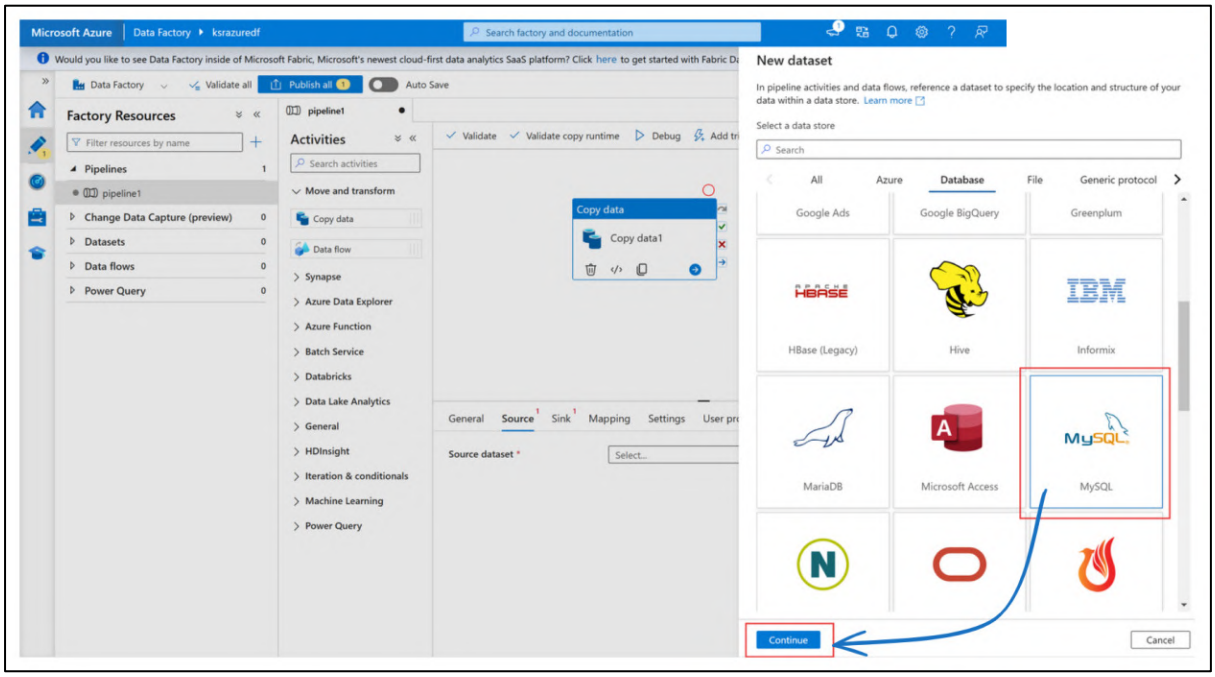
Step 4: Now click on Source followed by New



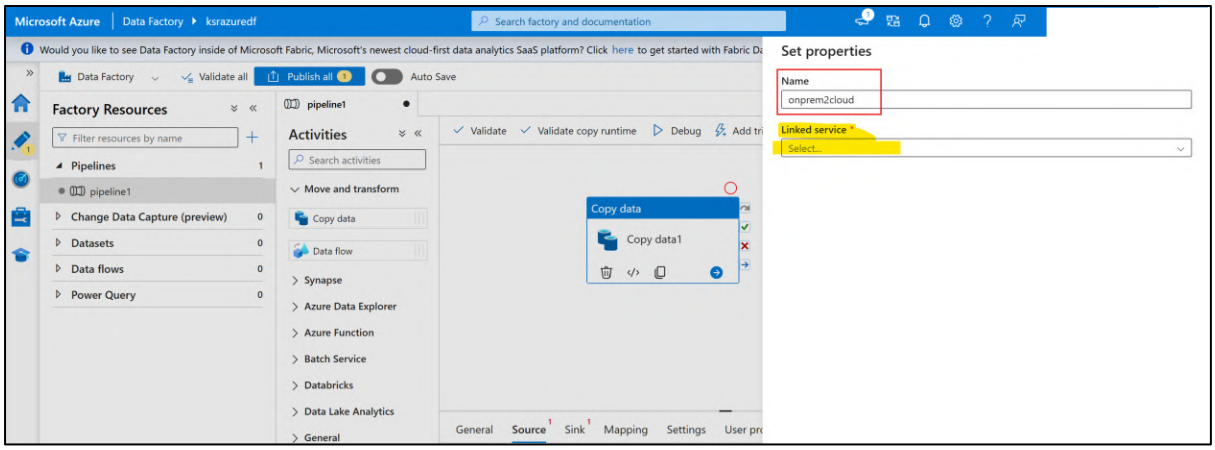
Step 5: After clicking on new it'll show like this now click on Database



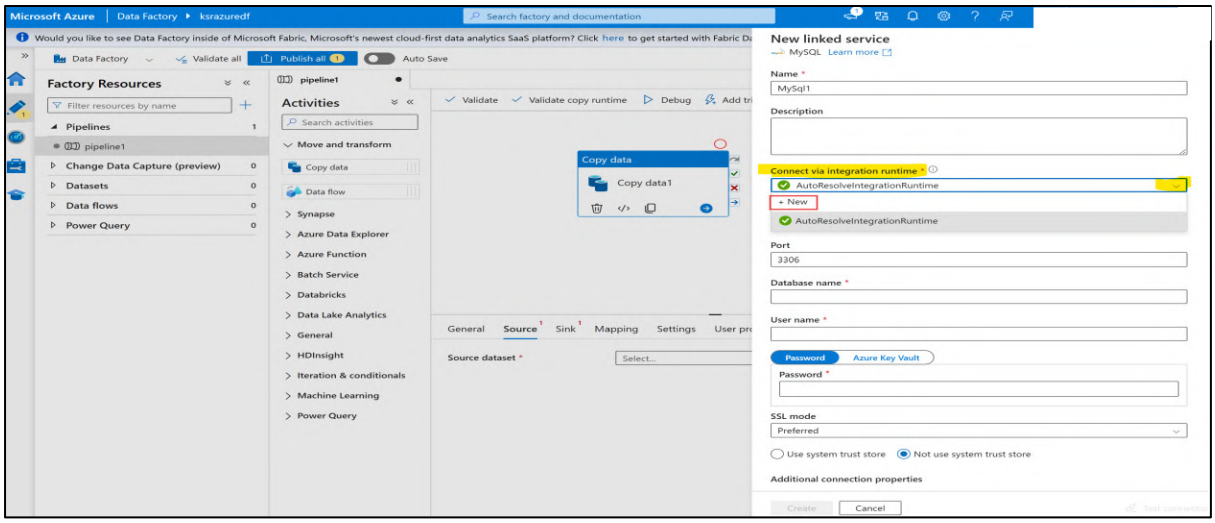
Step 6: Scroll down and choose MySQL and click continue



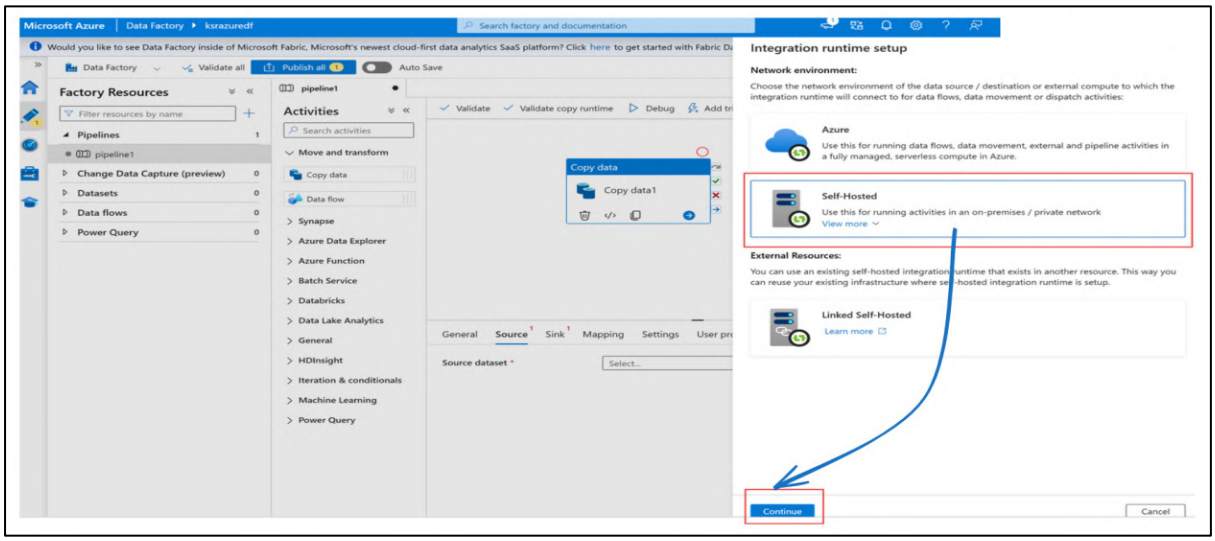
Step 7: Keep a proper name and click on drop down and create new linked service



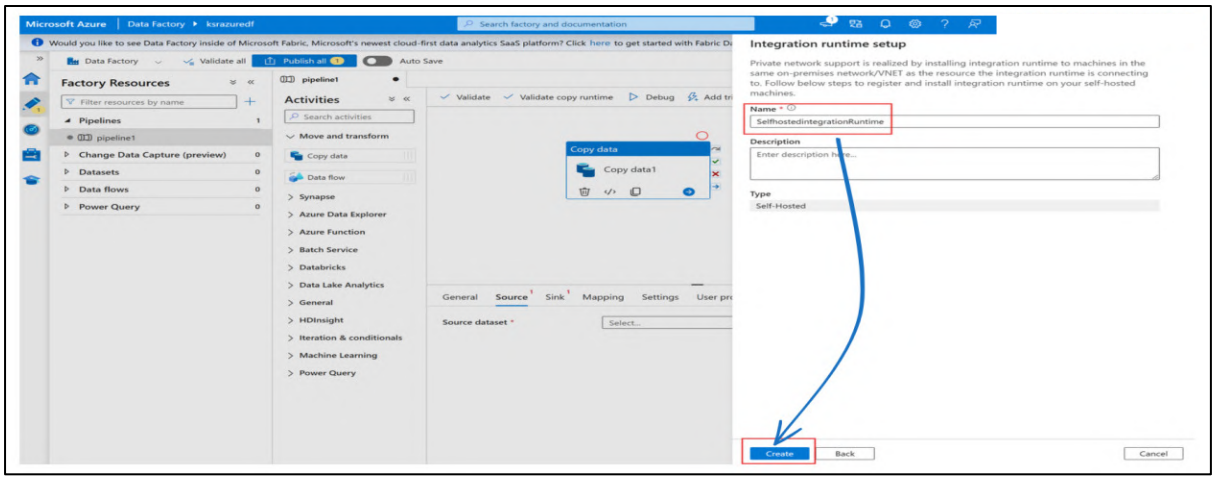
Step 8: Now you'll be see this screen, click on Connect via integration runtime dropdown and click new



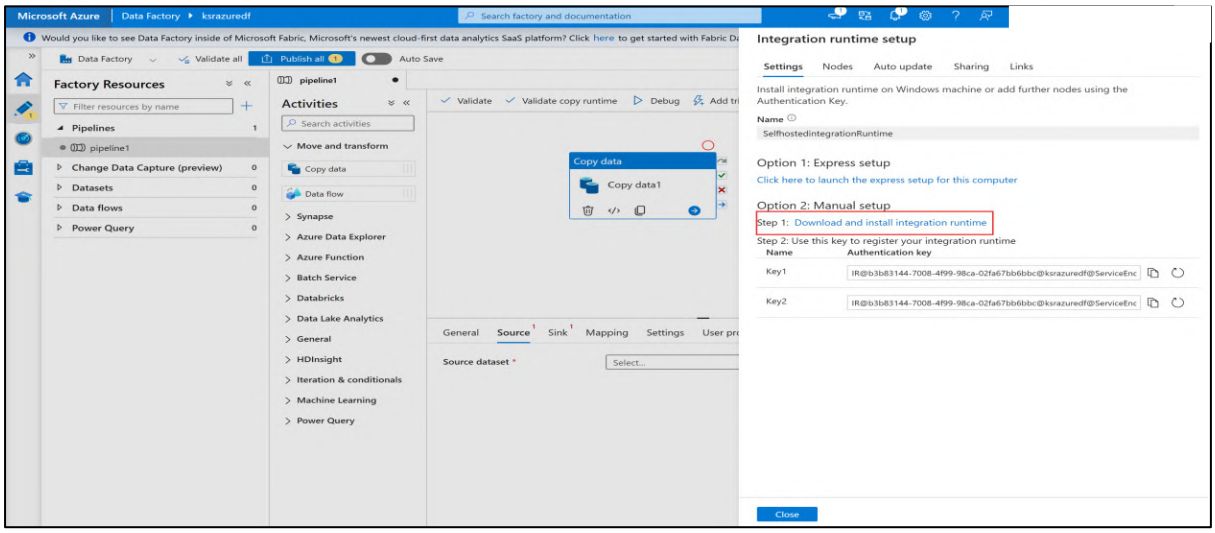
Step 9: Select Sel-Hosted integration runtime setup and click continue



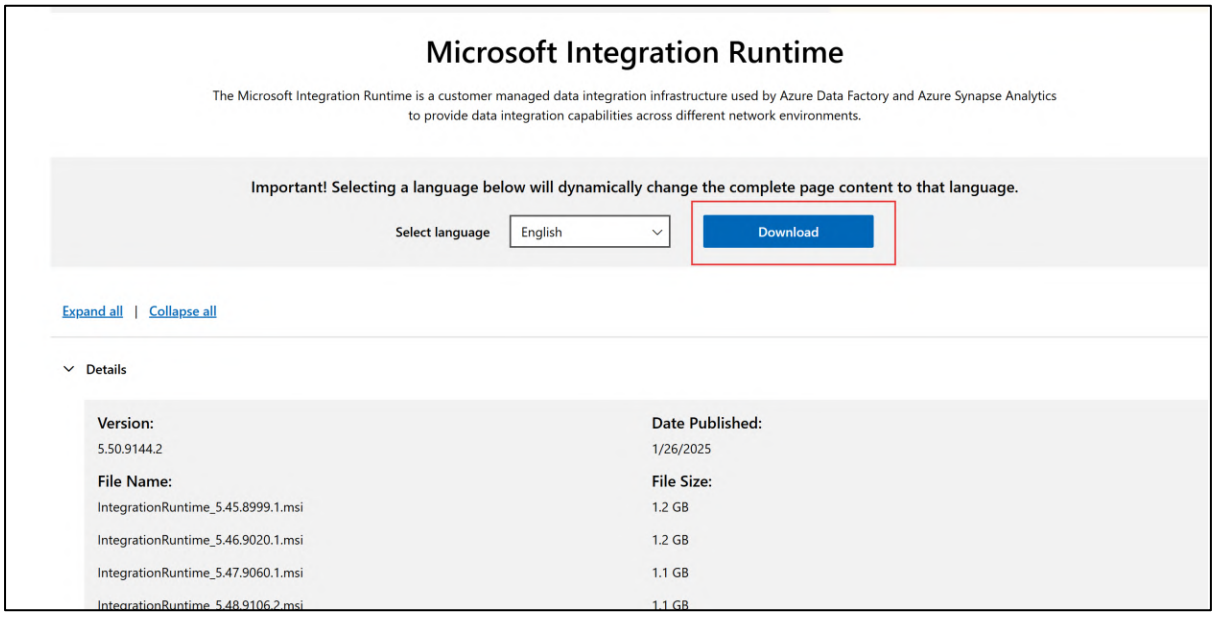
Step 10: Put proper name and click on Create



Step 11: Now Click on download and install integration runtime software

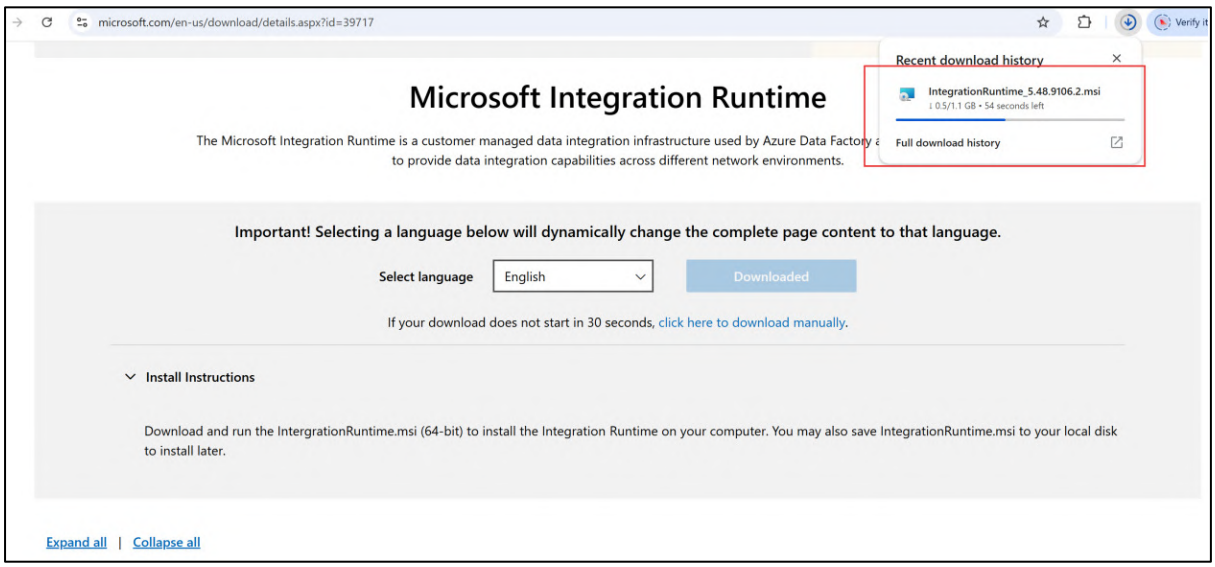


Step 12: After clicking on it now you will see this screen and click on download.

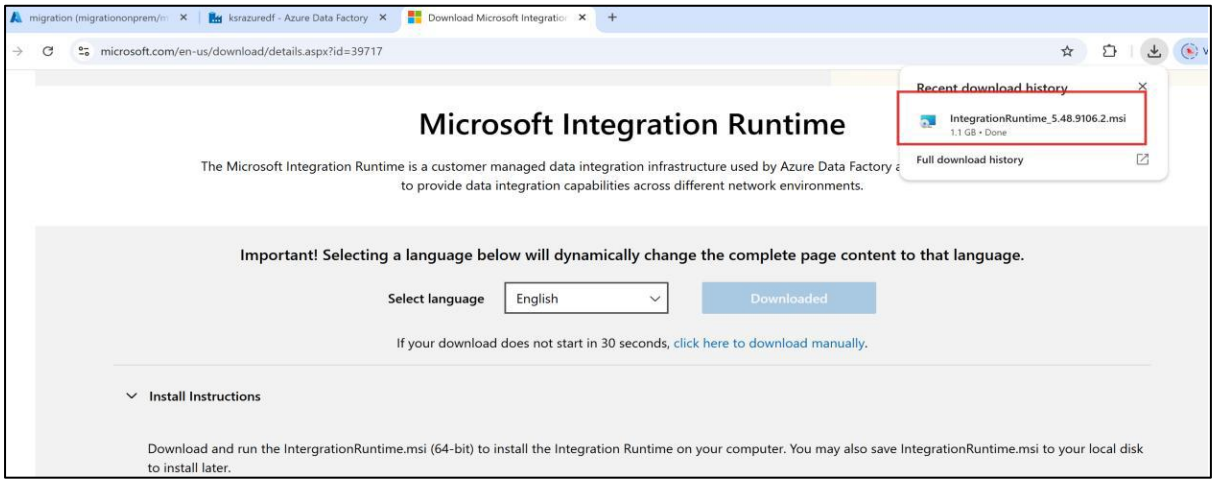


Step 13: Select proper version and click on download

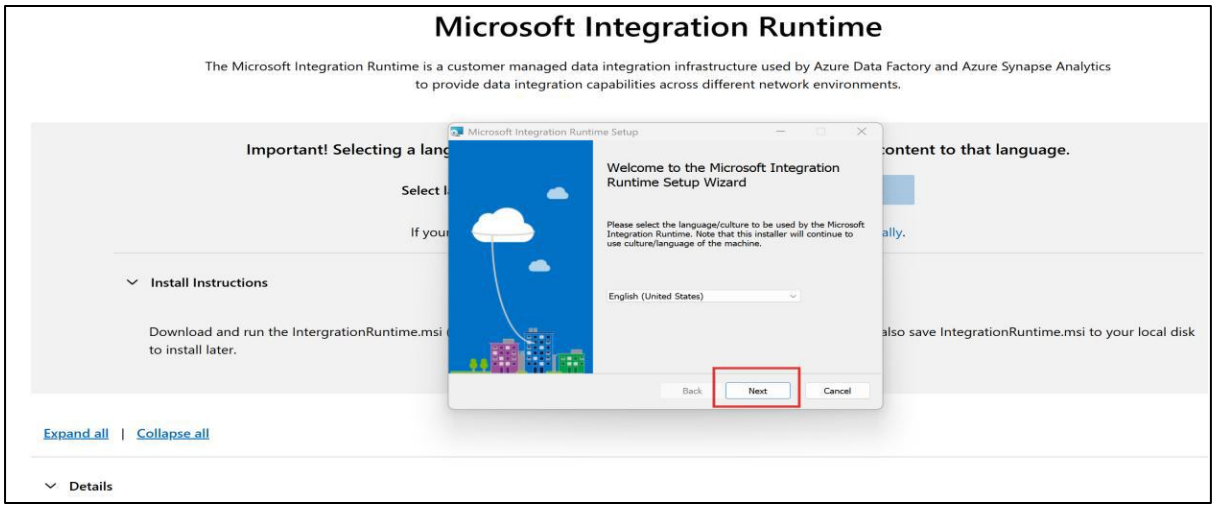
Step 14: Software download is in progress



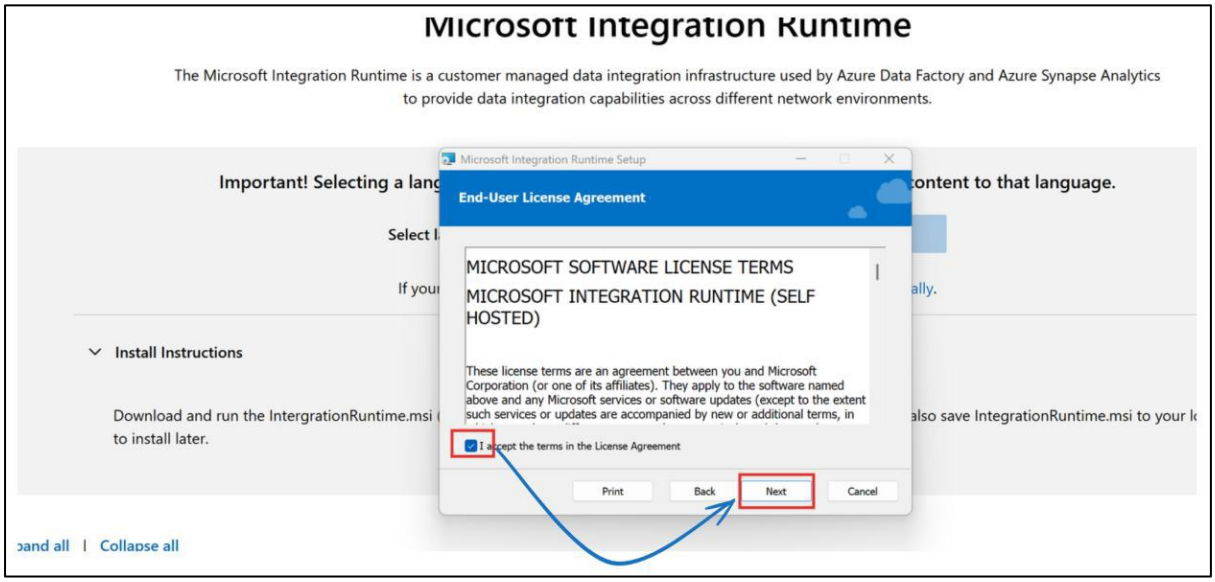
Step 15: Download completed



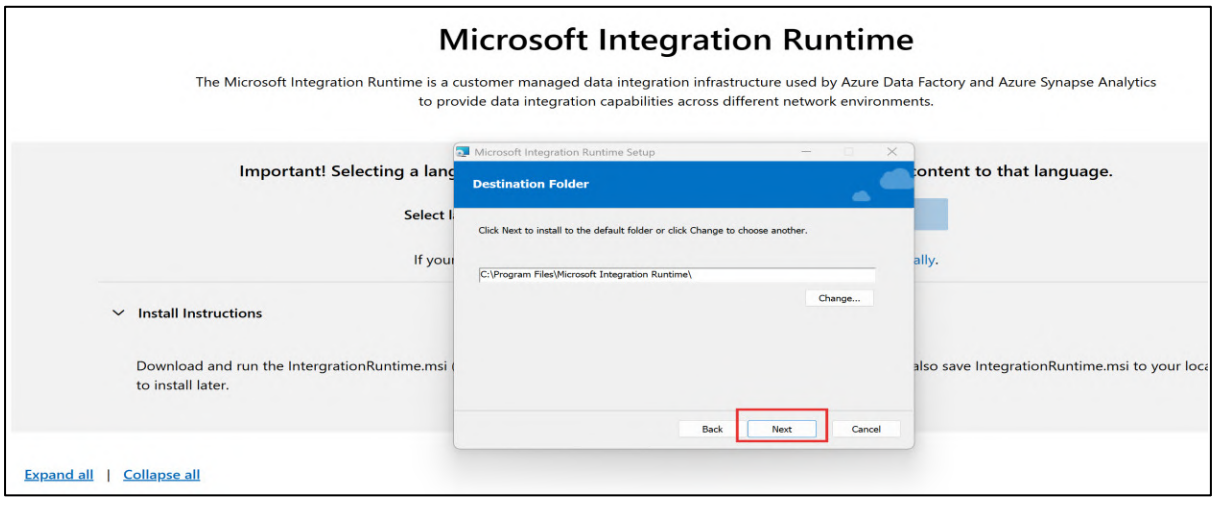
Step 16: Now install the software by clicking next



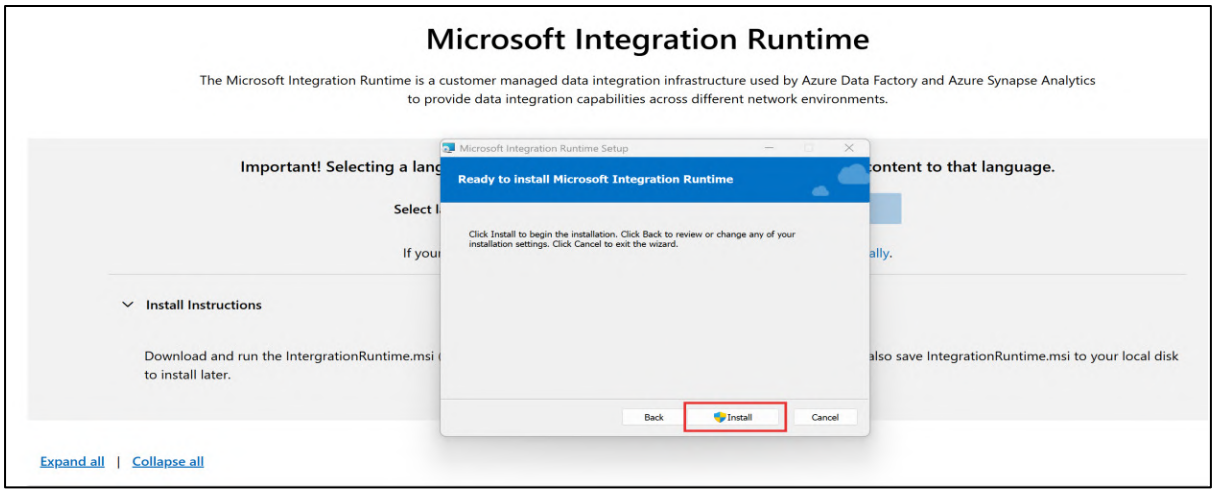
Step 17: Select check box and click next



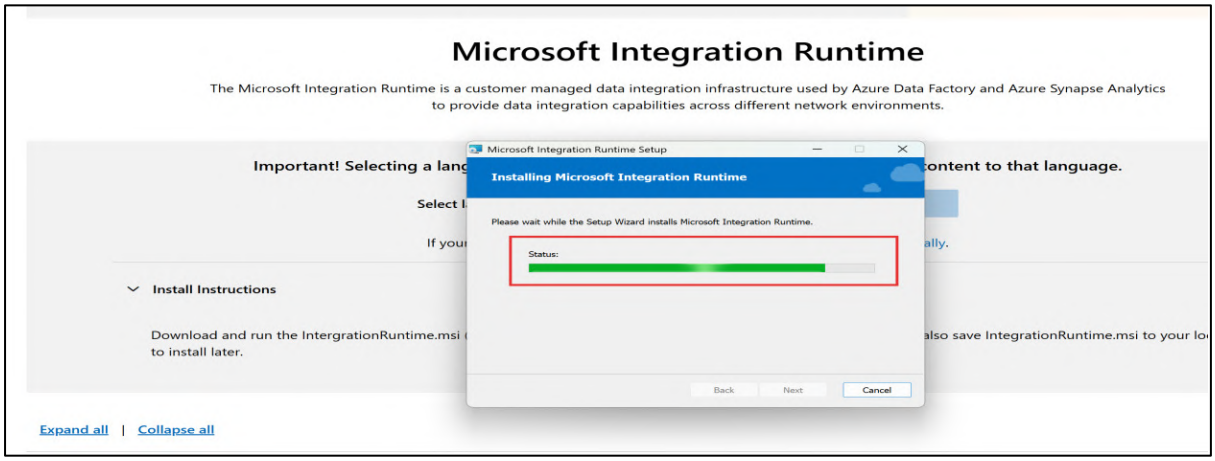
Step 18: Again, click next



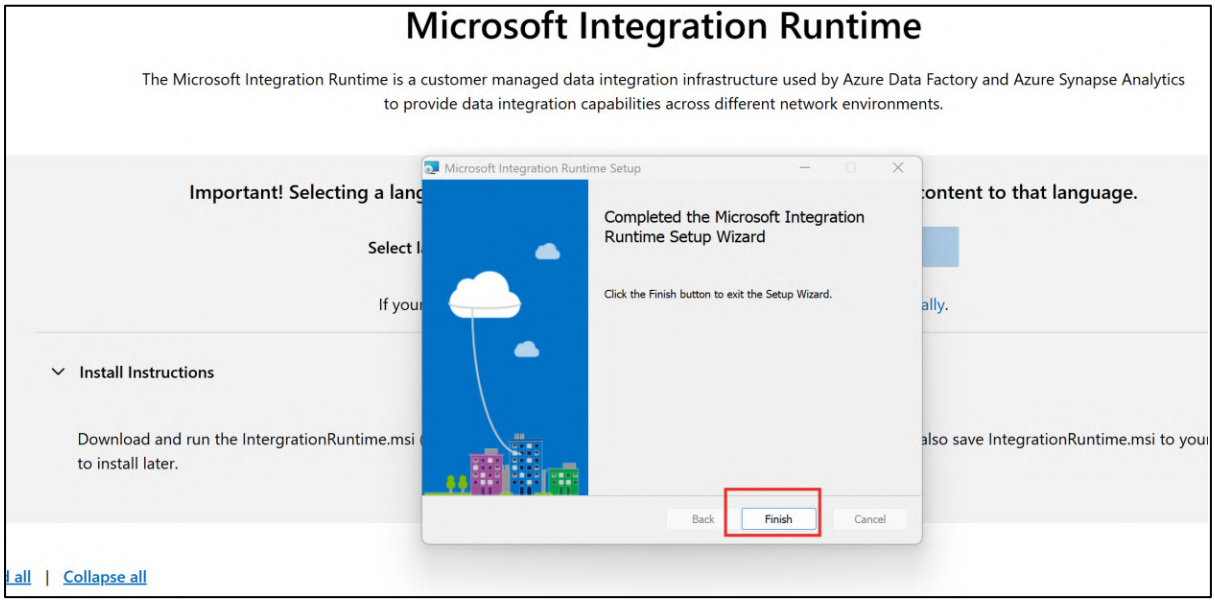
Step 19: Now click on Install



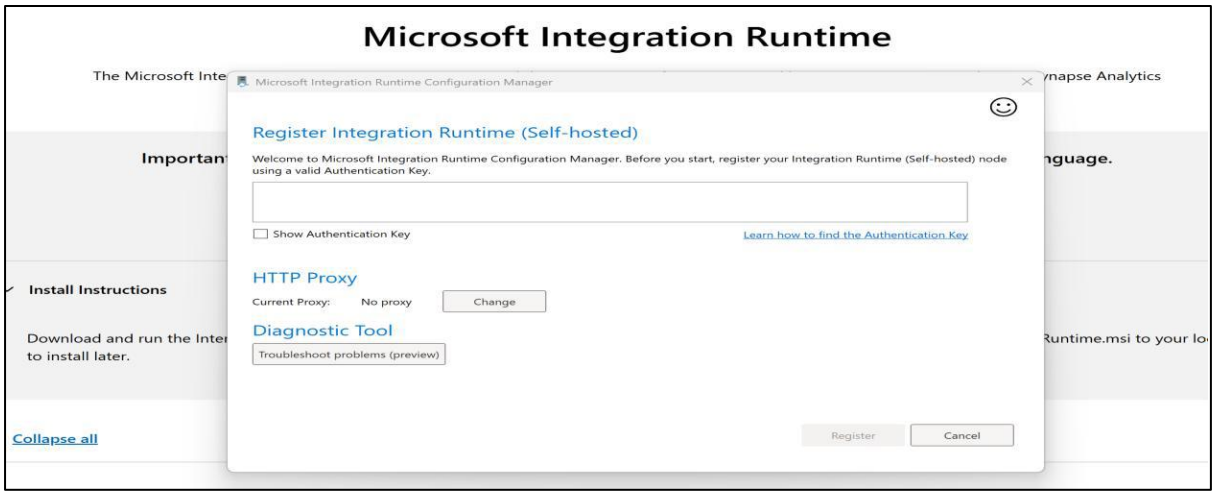
Step 20: Now installation is in progress



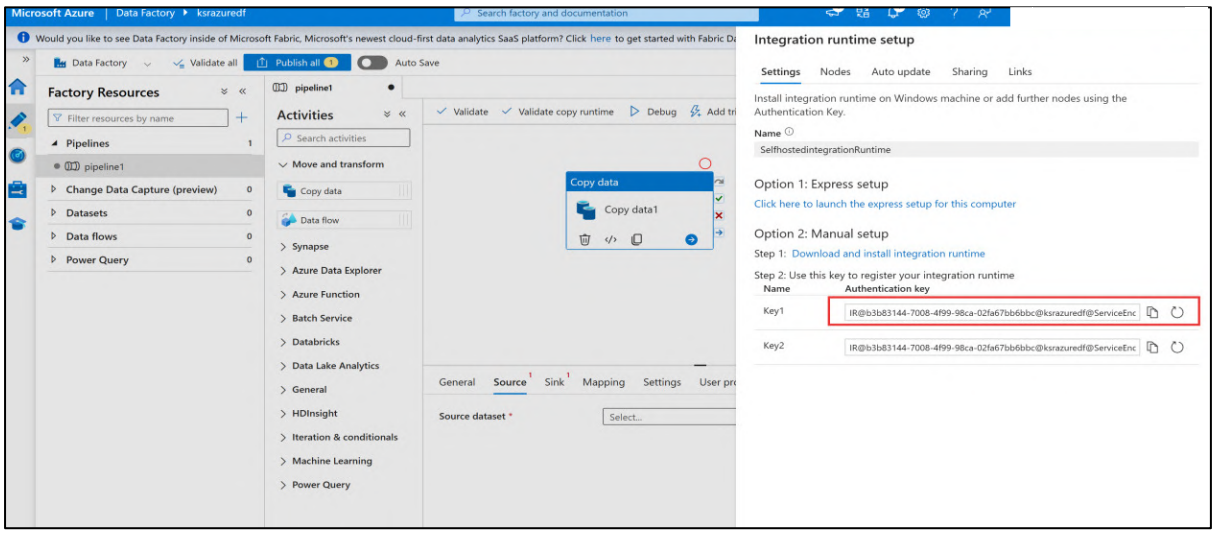
Step 21: Now installation completed and click on Finish



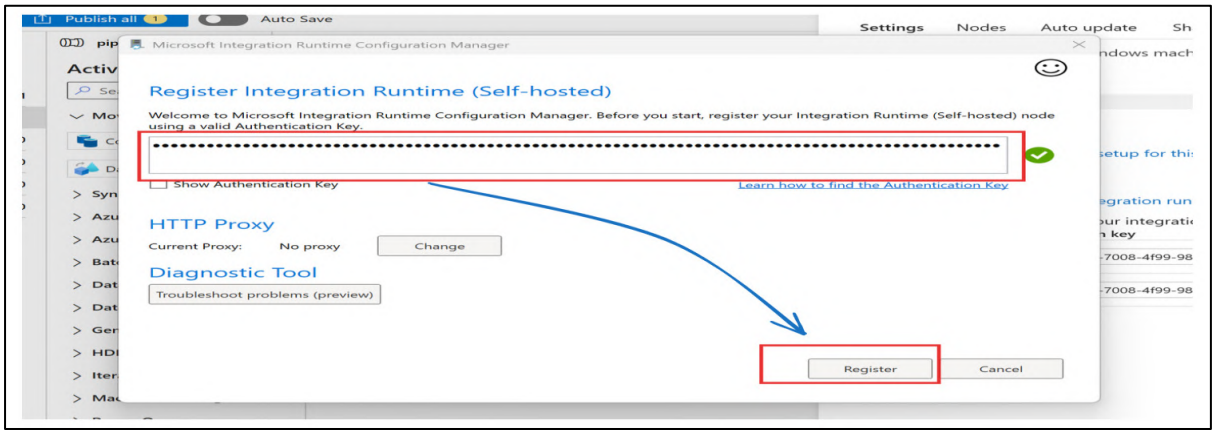
Step 22: After clicking finish then it will open like this.



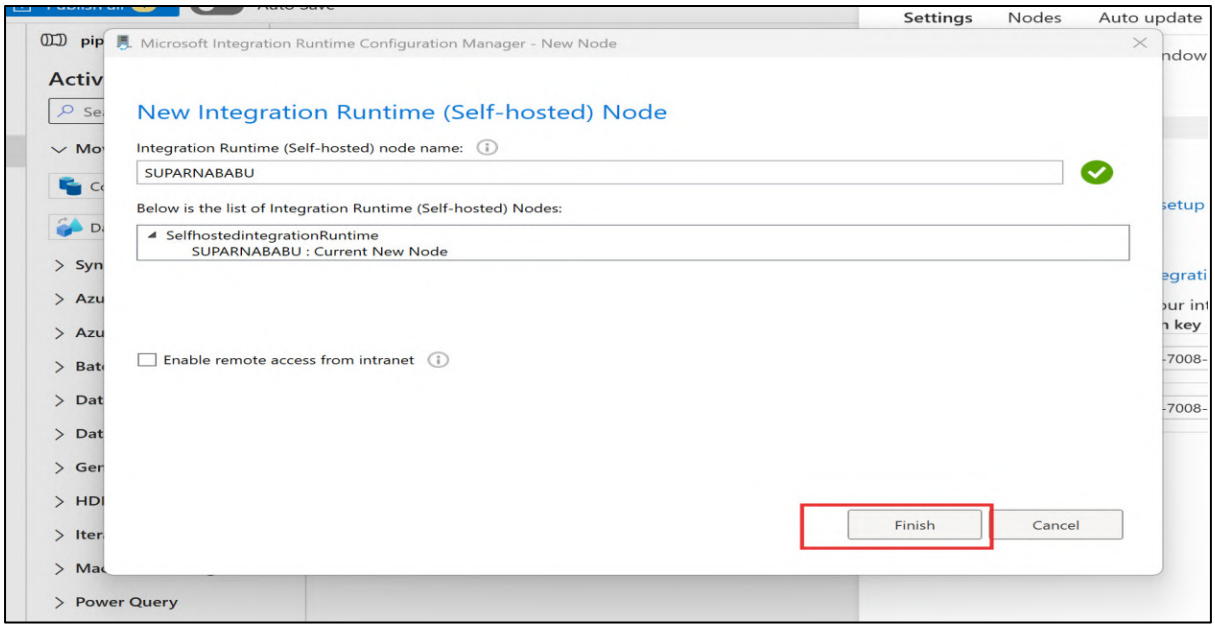
Step 23: Now navigate to ADF tab and copy the code



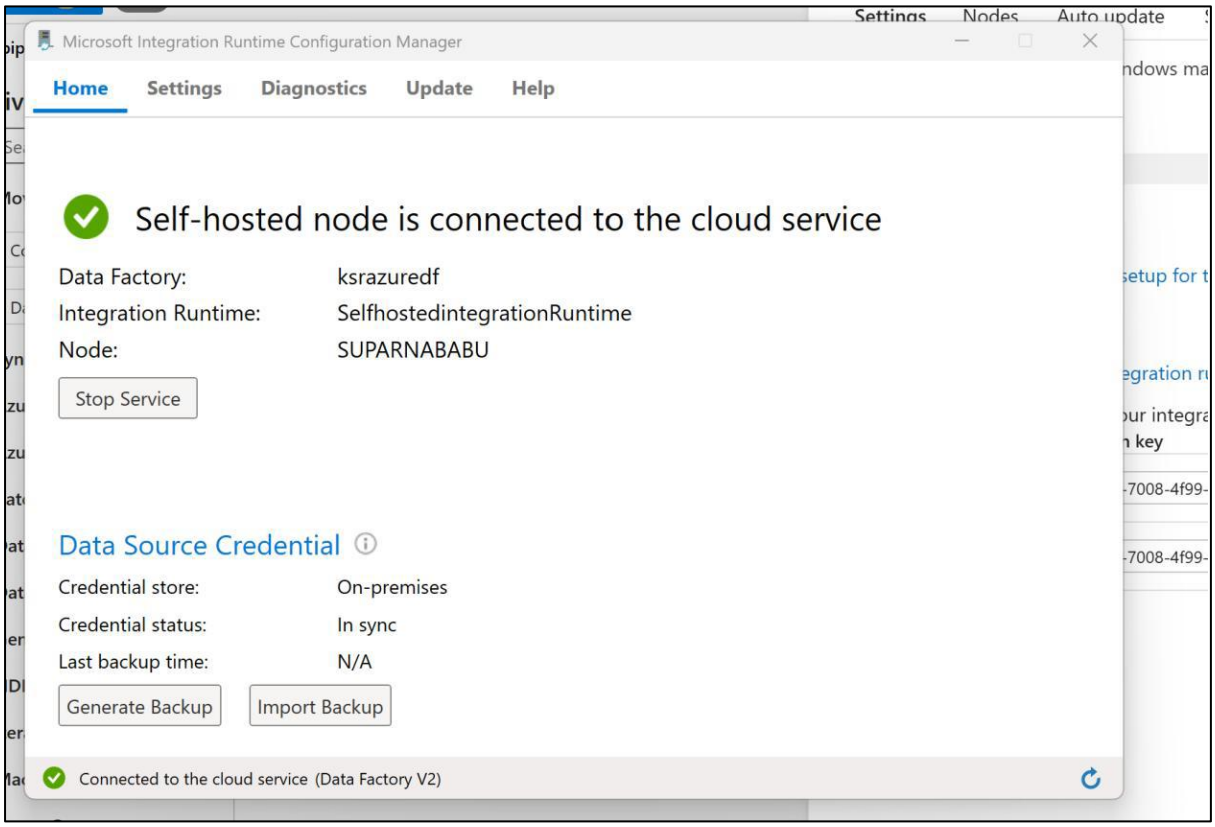
Step 24: Paste that key in the box and click on register



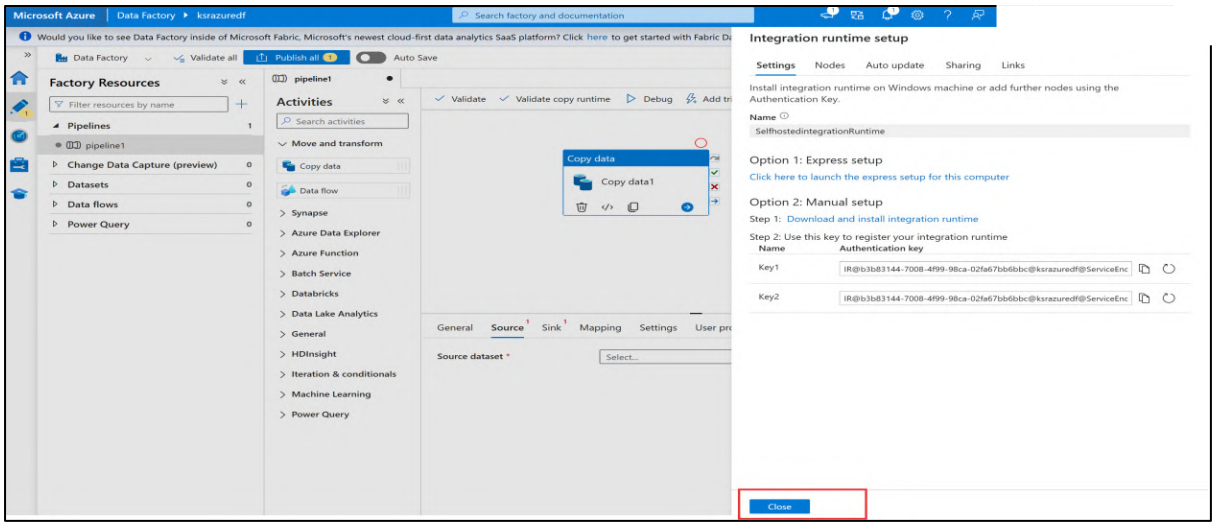
Step 25: Now click on Finish



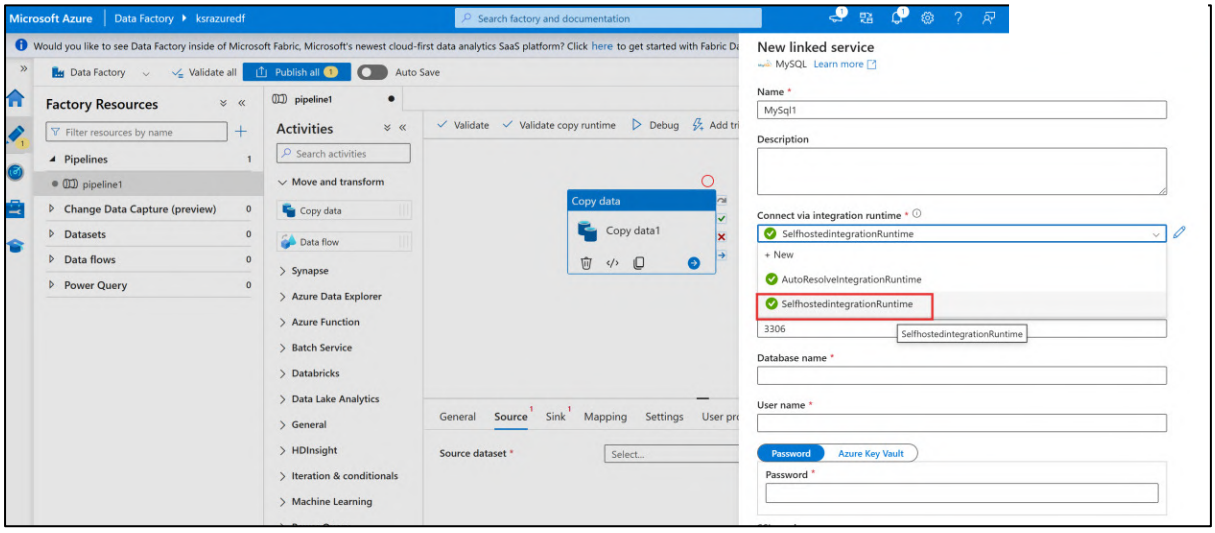
Step 26: After clicking on Finish then click Launch Configuration manager



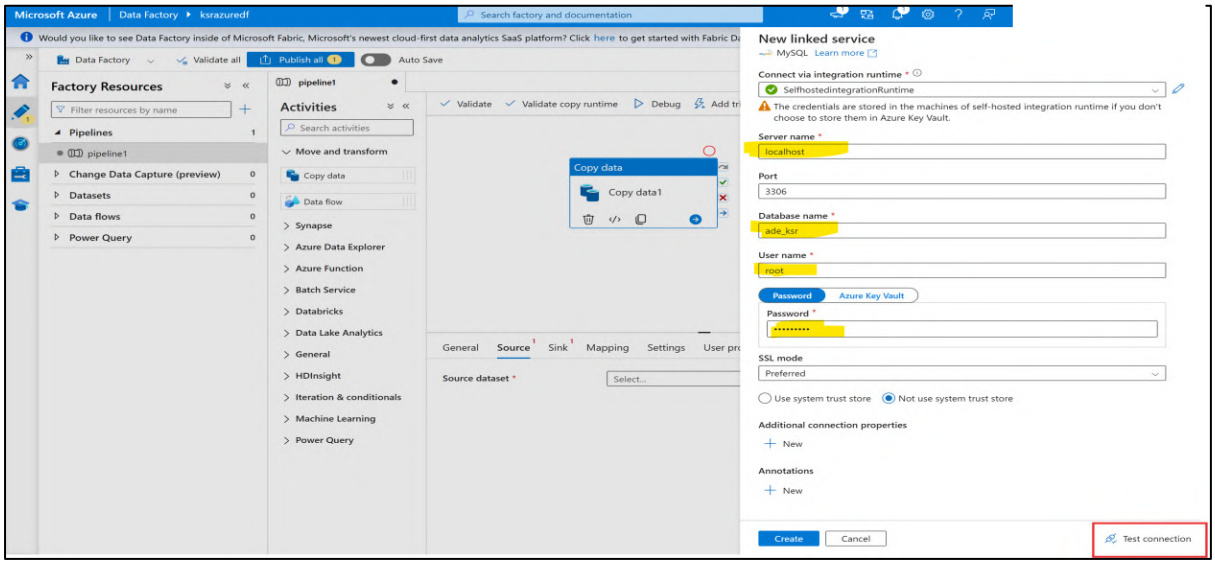
Step 27: Now navigate to ADF tab and click close



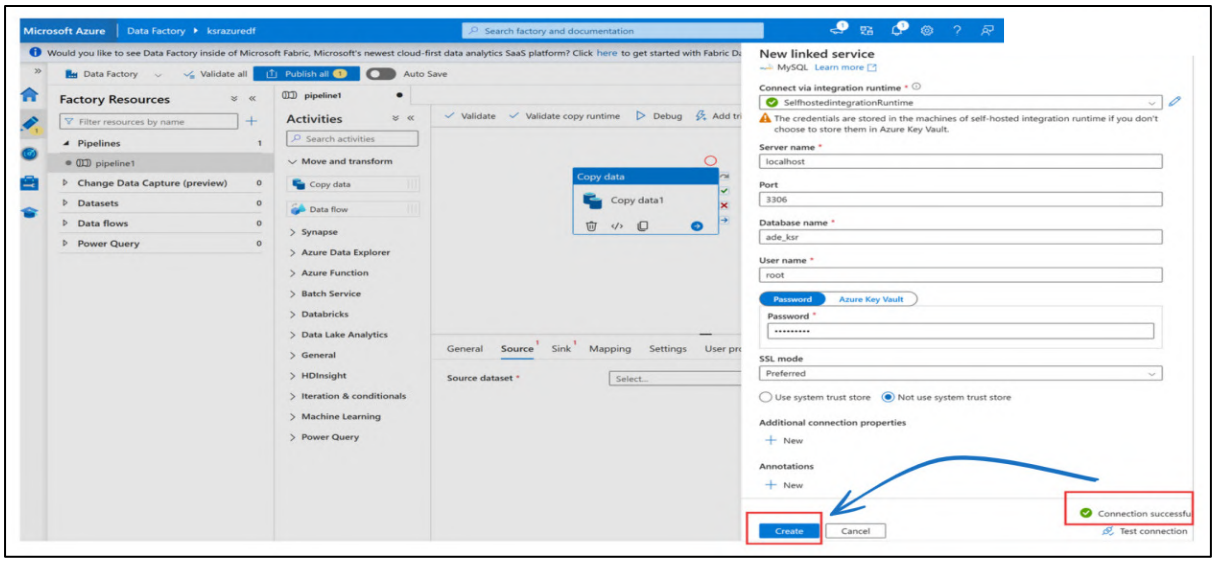
Step 28: Now select selfhosted integration run time.



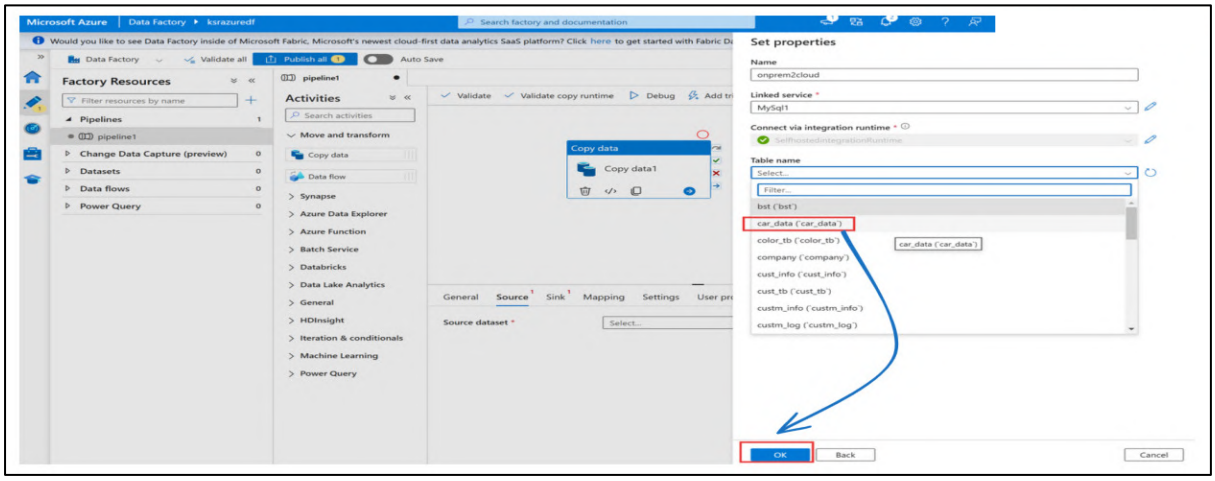
Step 29: After filling the form Click on test connection



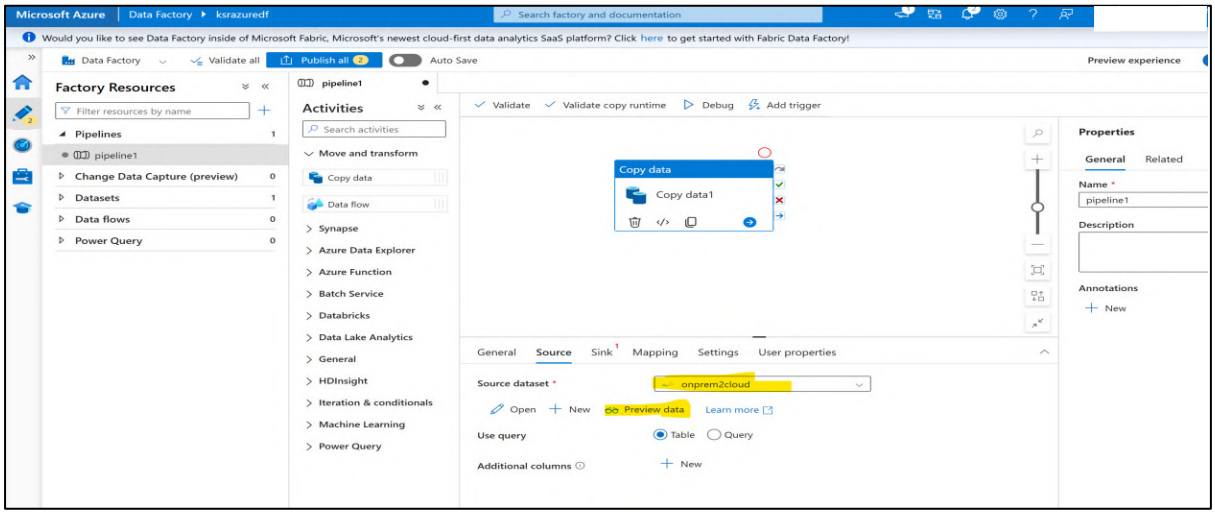
Step 30: Once test connection successful click on Create



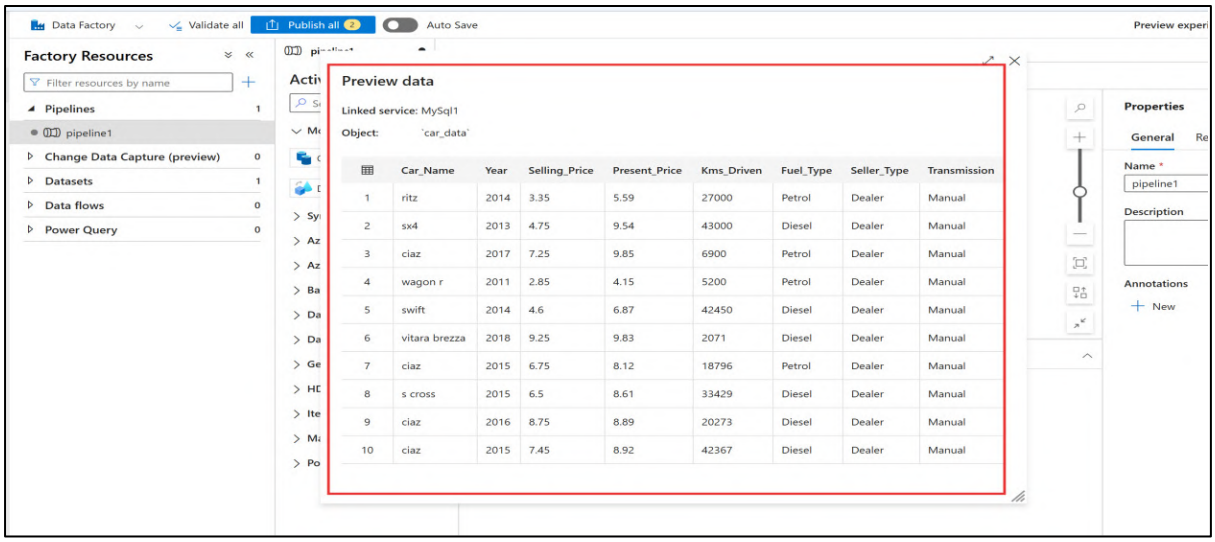
Step 31: select any one of table and click ok



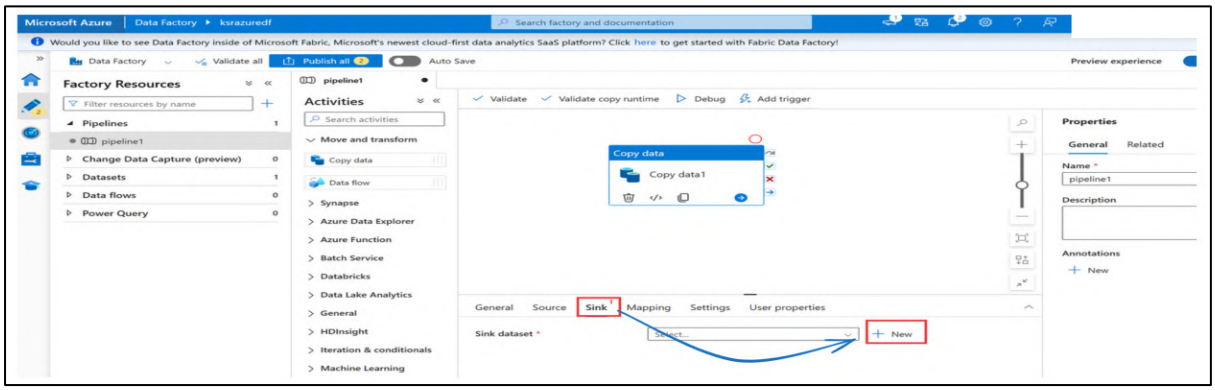
Step 32: Now click on Preview Data to view the sample data



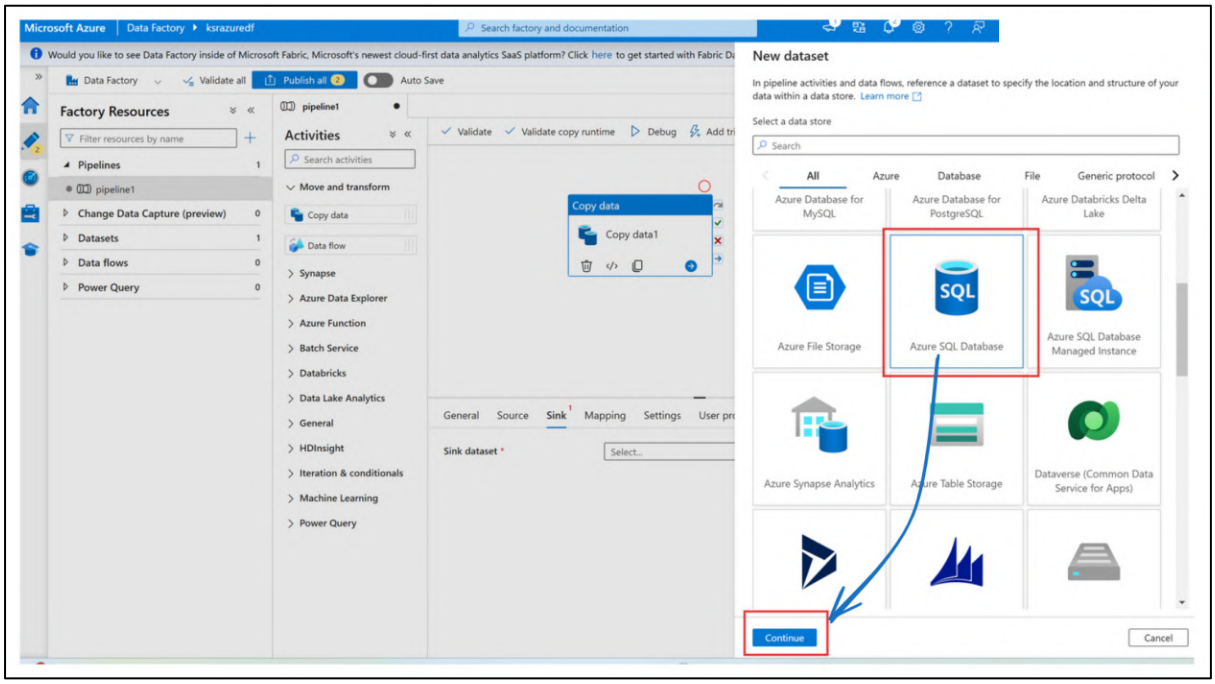
Step 33: Now you will be able to view the sample data



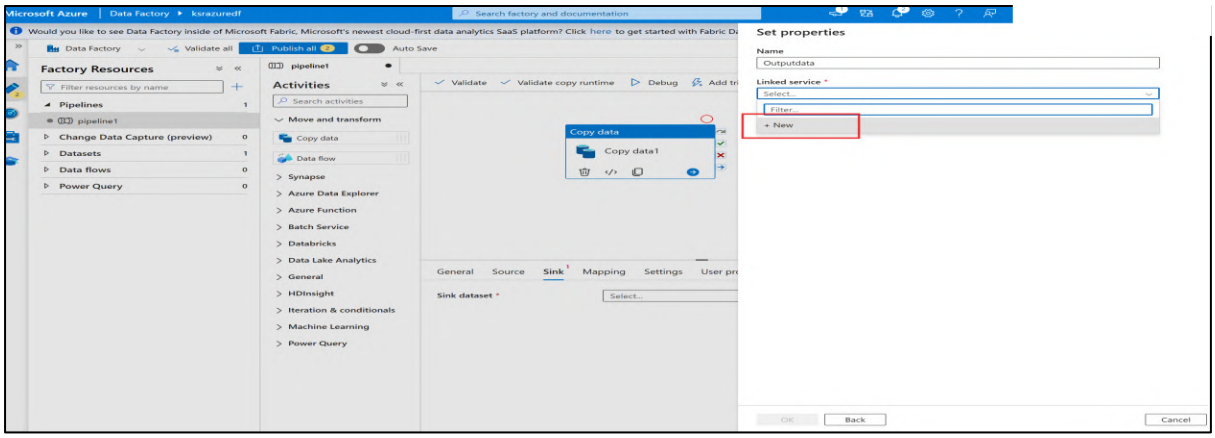
Step 34: Now close the sample data and click on sink followed by click on New



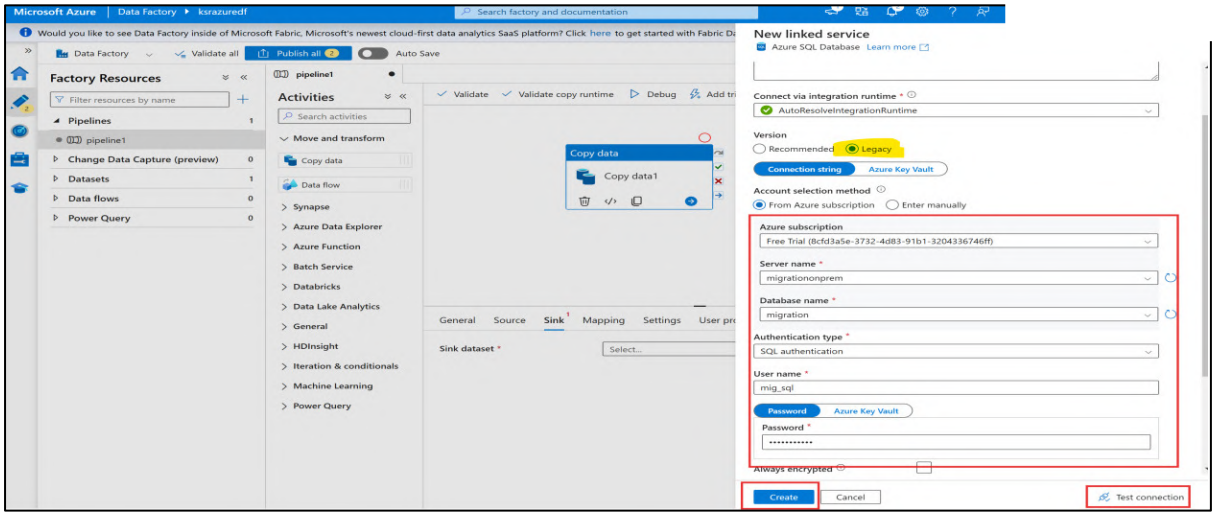
Step 35: Now select Azure SQL Database and click on Continue



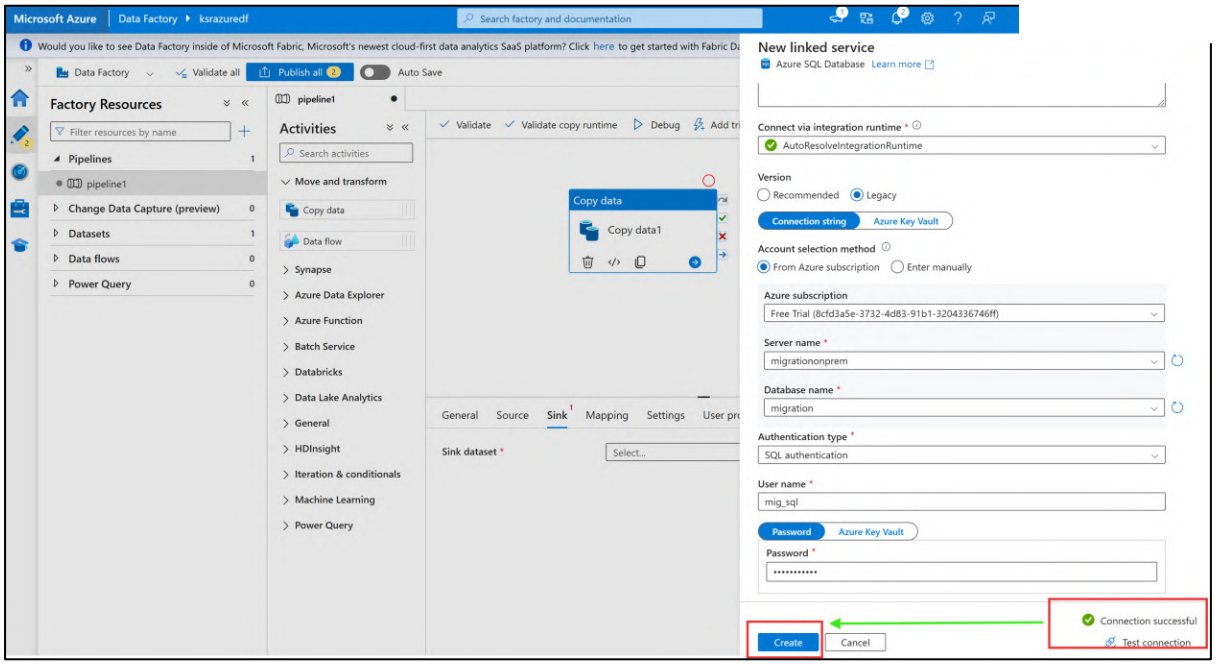
Step 36: Give proper name and Click on Dropdown of linked service and select new.



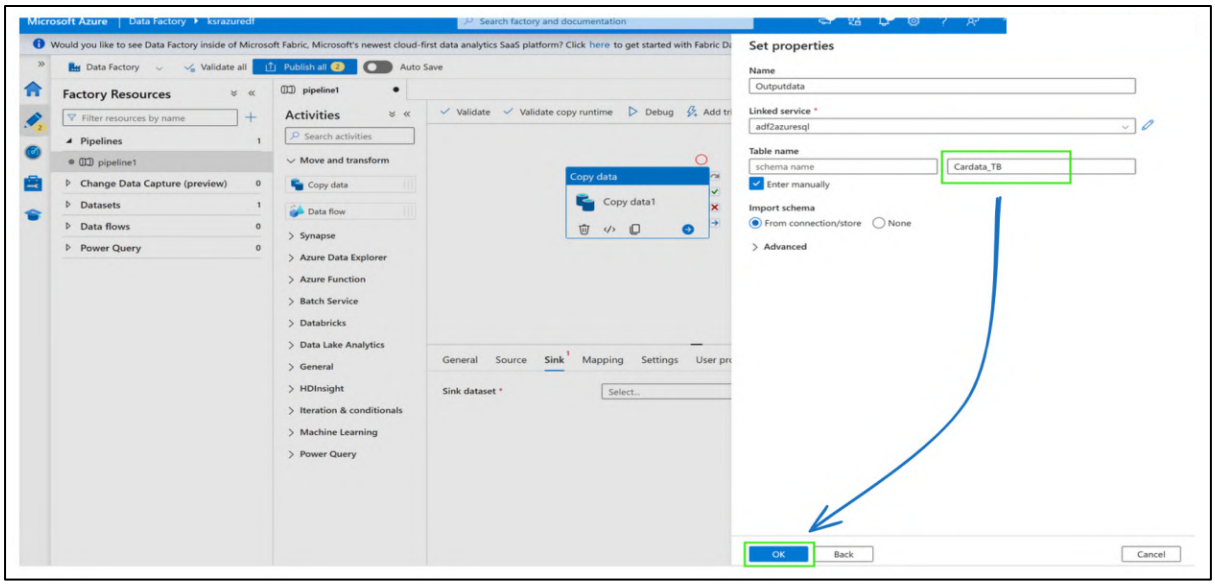
Step 37: Fill the form and click on Test Connection



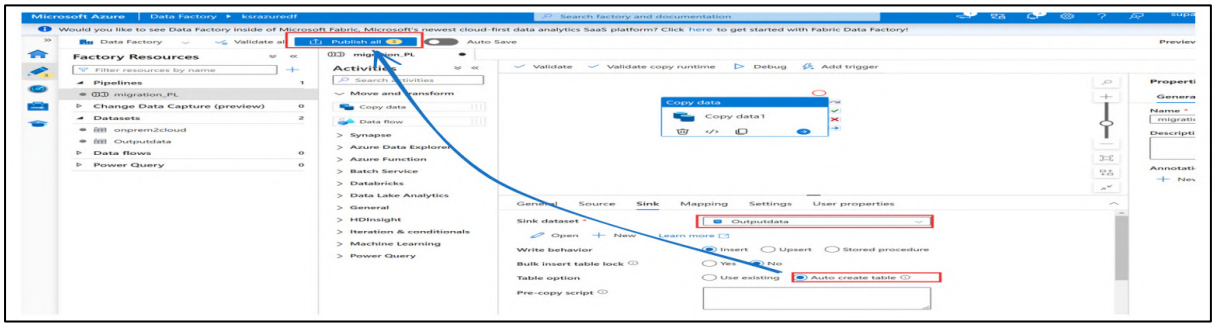
Step 38: Test Connection successful and now click on Create



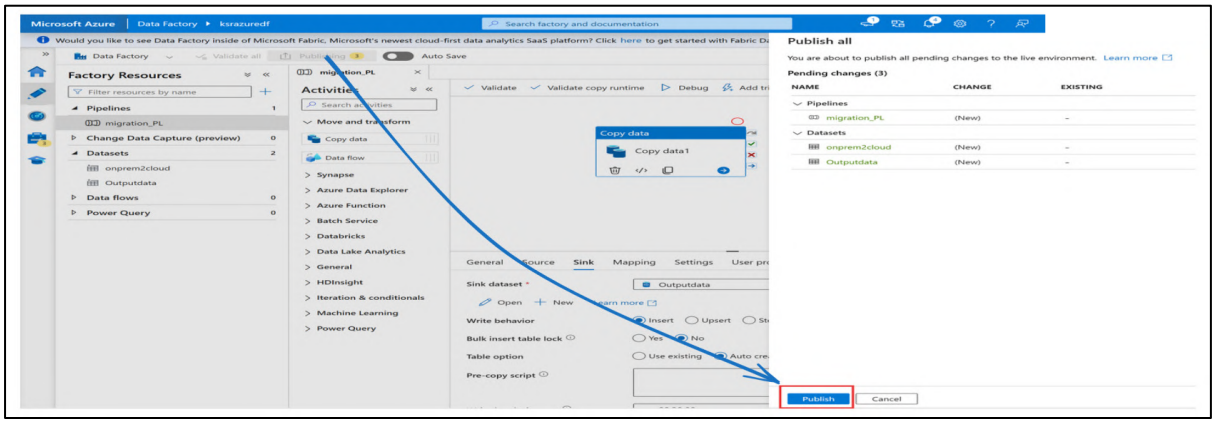
Step 39: Give proper table name and Click Ok



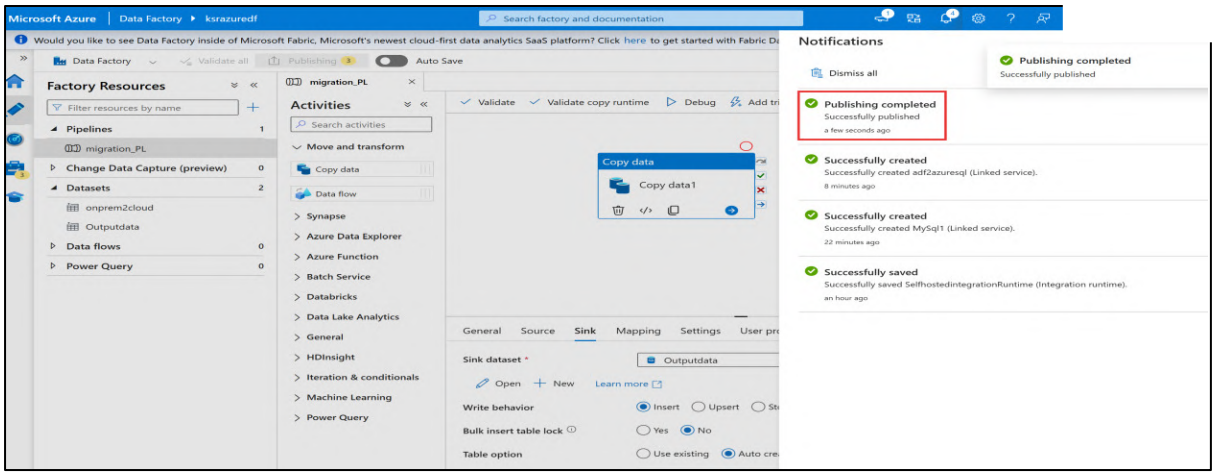
Step 40: Select Auto Create Table the click on Publish all



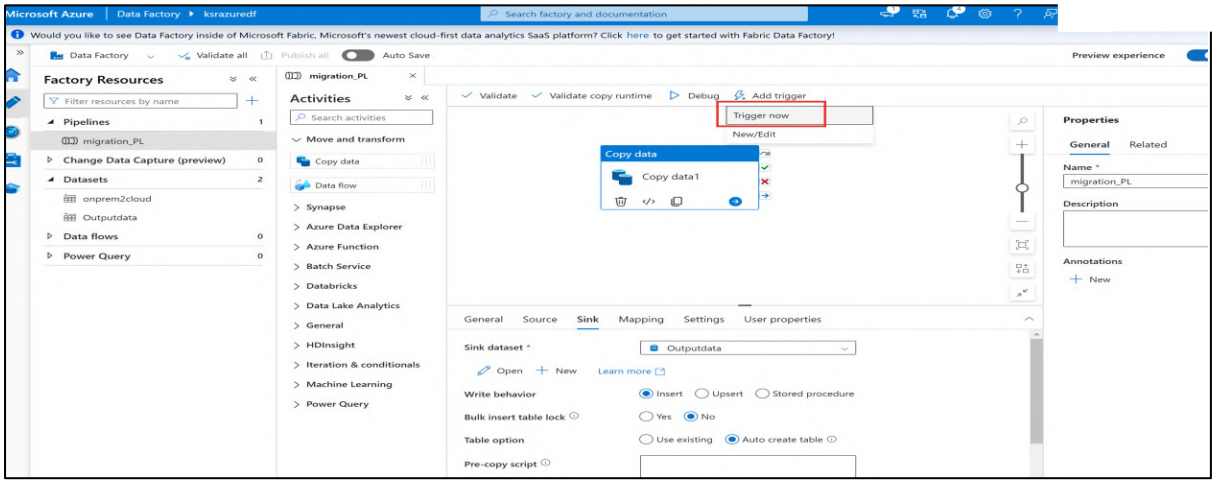
Step 41: After clicking on Publish now click on Publish



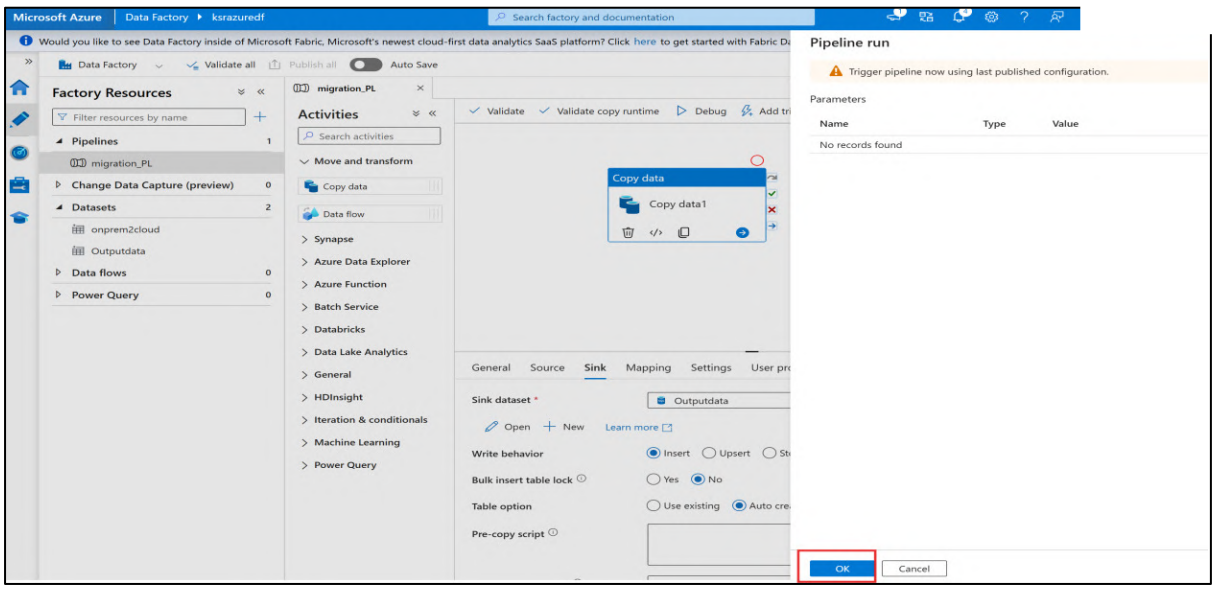
Step 42: Published successfully



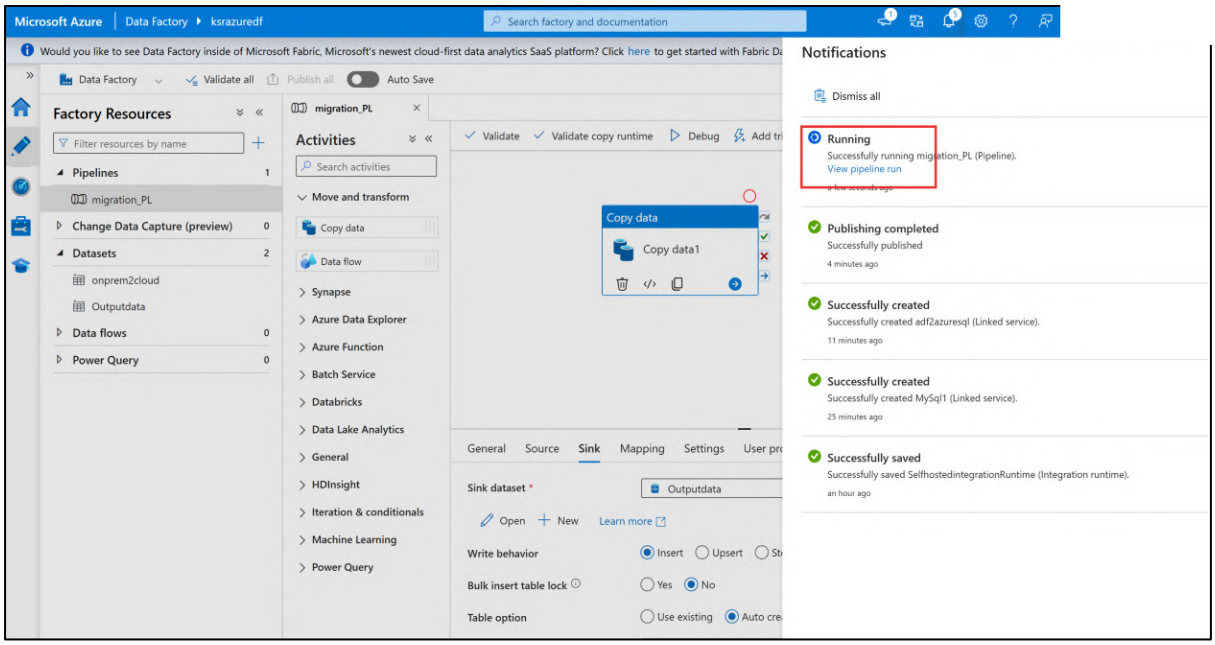
Step 43: Add trigger-> Trigger now



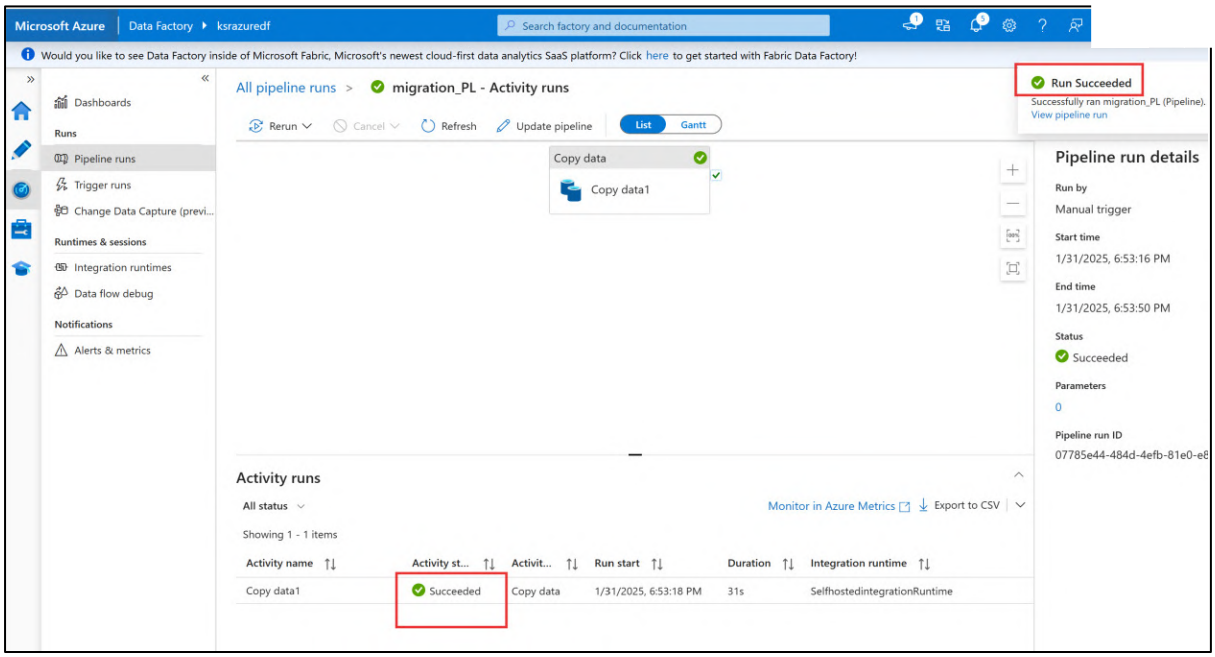
Step 44: Click on ok



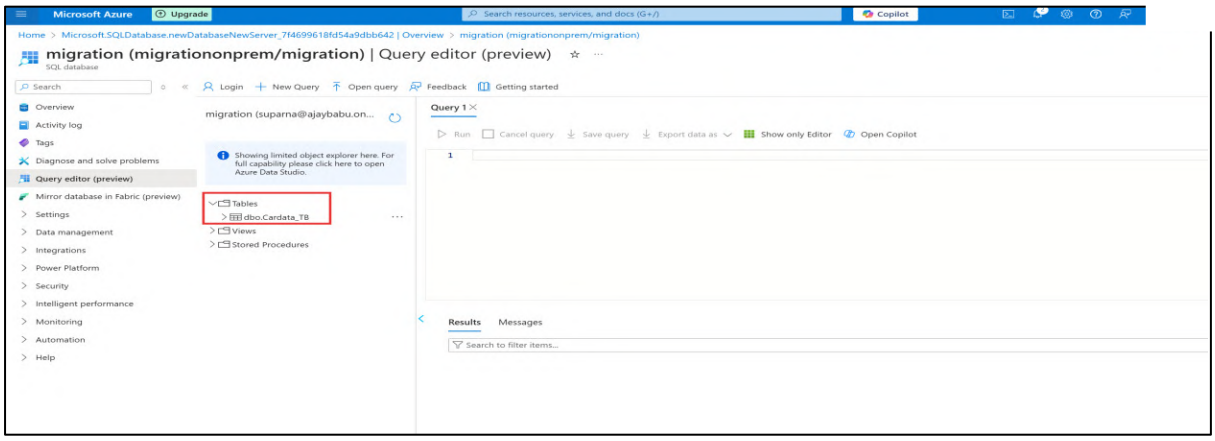
Step 45: Pipeline running and click on View pipeline to view the status



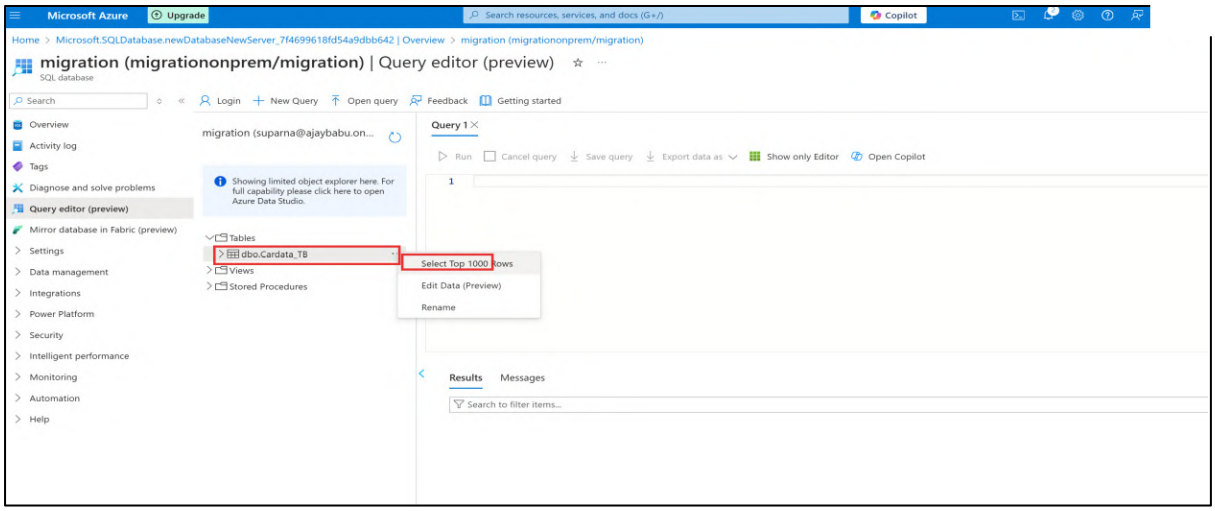
Step 46: Pipeline run succeeded



Step 47: Now navigate to Azure SQL Database editor tab. You'll be able to view the table which was in on-prem moved to Cloud.



Step 48: Now click on table ... and select Top 1000 rows



Step 49: Now you'll be able to view the data in table