

5th pipeline onprem mysql → azure data factory → azure sql database

Pipeline Architecture :

Services Required :

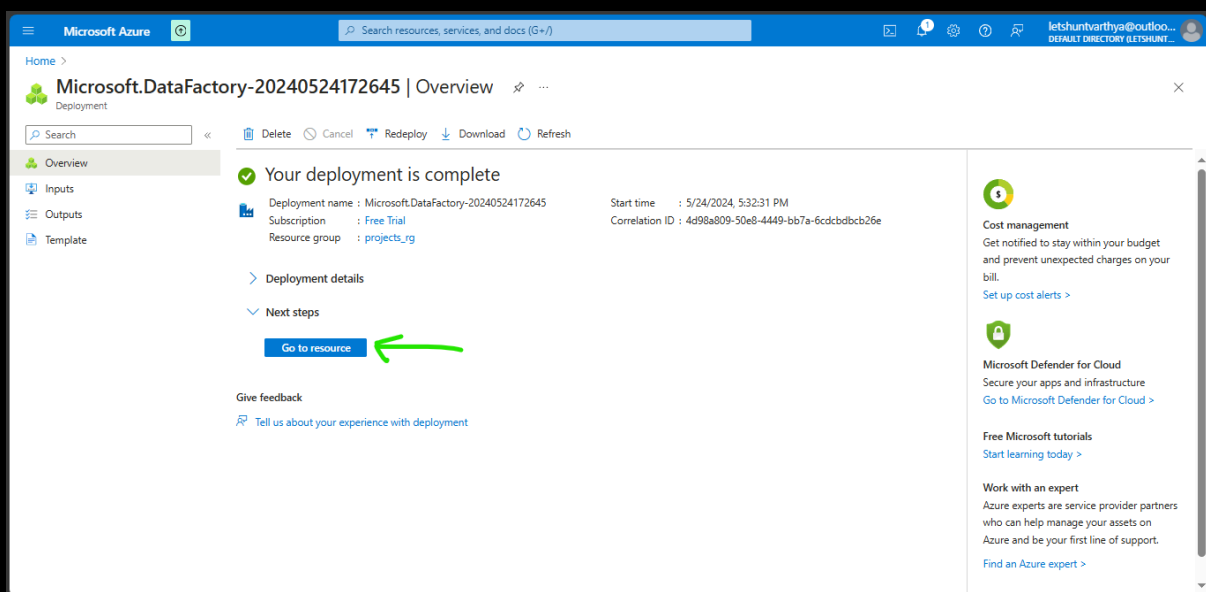
1. On prem mysql
 2. Azure data factory
 3. Azure sql database
- Assuming product data is already there in onprem mysql.

Azure SQL Database Creation :

- Creation of an azure sql database is shown in the document below.
- Parameters used while creating azure sql database.
- Database name : **sqlldb**
- Server name : **projectsserver**
- Server admin login : **project_admin**
- https://docs.google.com/document/d/16iB1EsGKHc6-bcgTPSfqkK6BVf3n8_fpb0t42uNOvXc/edit?usp=drive_link

Azure Data Factory Creation :

- Creation of the data factory is shown in the document below.
- Parameters used while creating azure data factory.
- Datafactory name : **projects-datafactory**
- https://docs.google.com/document/d/1lpvA7XumJjbIP0wPWWUlfd_gdvh6jTn_0a12HWv0jcM/edit?usp=sharing
- Click on **Go to resource**.
- Click on **launch workspace**.



Microsoft Azure | projects-datafactory

Home > projects_rg > projects-datafactory (Data Factory (V2))

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Managed identities

Properties

Locks

Getting started

Quick start

Monitoring

Alerts

Metrics

Diagnostic settings

Logs

Resource group (move) projects_rg

Type Data Factory (V2)

Status Getting started [Quick start](#)

Location East US

Subscription (move) Free Trial

Subscription ID c92e5287-784e-4a20-9e6c-8549947f2ee6

Azure Data Factory Studio

[Launch studio](#)

Quick Starts Tutorials Template Gallery Training Modules

Notifications

More events in the activity log → Dismiss all

- Deployment succeeded
Deployment 'Microsoft.DataFactory-20240524172645' to resource group 'projects_rg' was successful.
[Pin to dashboard](#) [Go to resource group](#)
3 minutes ago
- Deployment succeeded
Deployment 'Microsoft.Azure.CosmosDB-20240524163639' to resource group 'projects_rg' was successful.
[Go to resource](#) [Go to resource group](#)
56 minutes ago
- Successfully uploaded blob(s)
Successfully uploaded 4 blob(s).
an hour ago
- Successfully created storage container
Successfully created storage container 'denisfactdata'.
an hour ago
- Deployment succeeded
Deployment 'denissadlissa_1716546997551' to resource group 'projects_rg' was successful.

Microsoft Azure | Data Factory > projects-datafactory

Search factory and documentation

General

Factory settings

Connections

Linked services

Integration runtimes

Microsoft Purview

Source control

Git configuration

ARM template

Author

Triggers

Global parameters

Data flow libraries

Security

Credentials

Customer managed key

Outbound rules

Managed private endpoint

Workflow orchestration

Linked services

Linked service defines the connection information to a data store or compute. [Learn more](#)

[+ New](#)

Filter by name Annotations: Any

Showing 1 - 4 of 4 items

Name	Type
adls2adf_ls	Azure Data Lake Storage Gen2
blob2adf_ls	Azure Blob Storage
cosmos2adf_ls	Azure Cosmos DB for MongoDB

New linked service

Data store Compute

Search

All Azure Database File Generic protocol NoSQL Services and apps

Informix MariaDB Microsoft Access

MySQL Netezza Oracle

Continue Cancel

Microsoft Azure | Data Factory > projects-datafactory

Search factory and documentation

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New linked service

MySQL [Learn more](#)

Name * MySql11

Description

Connect via integration runtime *

AutoResolveIntegrationRuntime

+ New

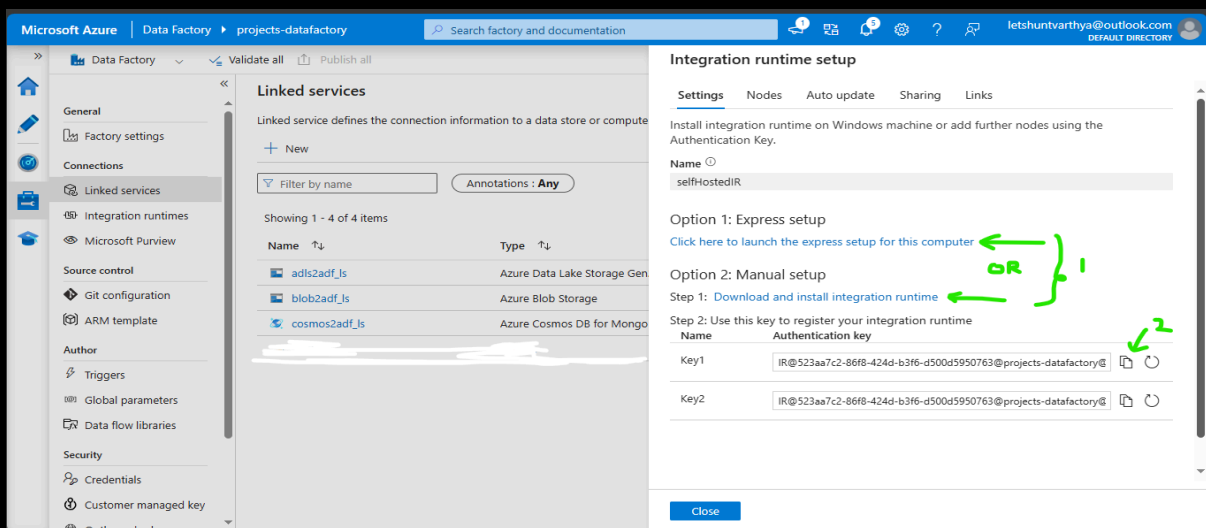
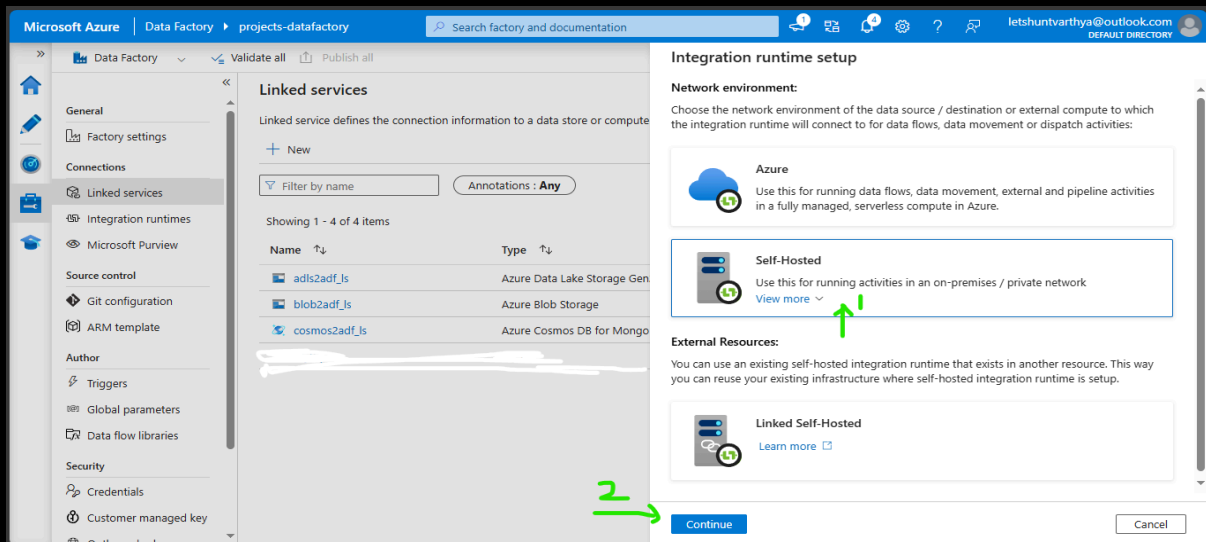
AutoResolveIntegrationRuntime

Port 3306

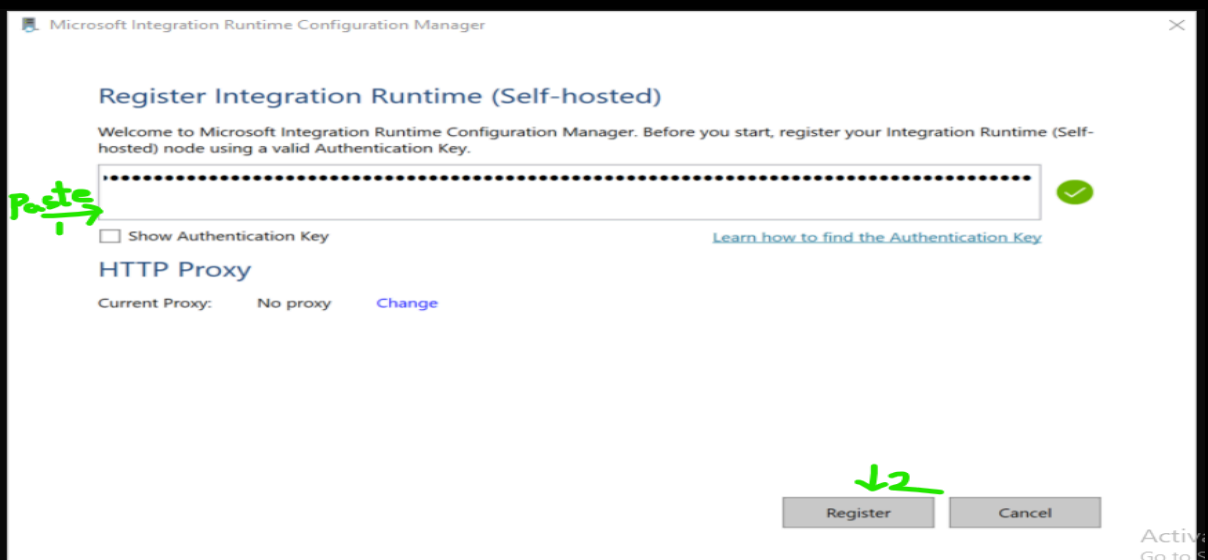
Database name *

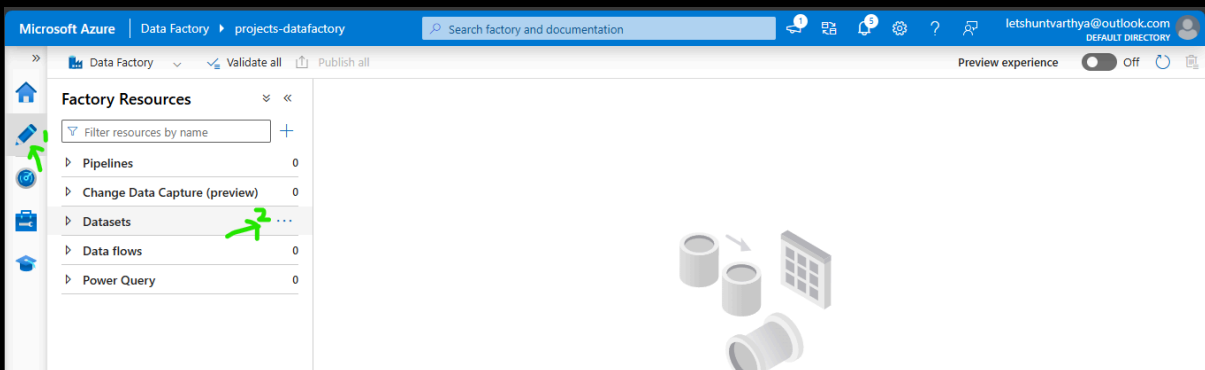
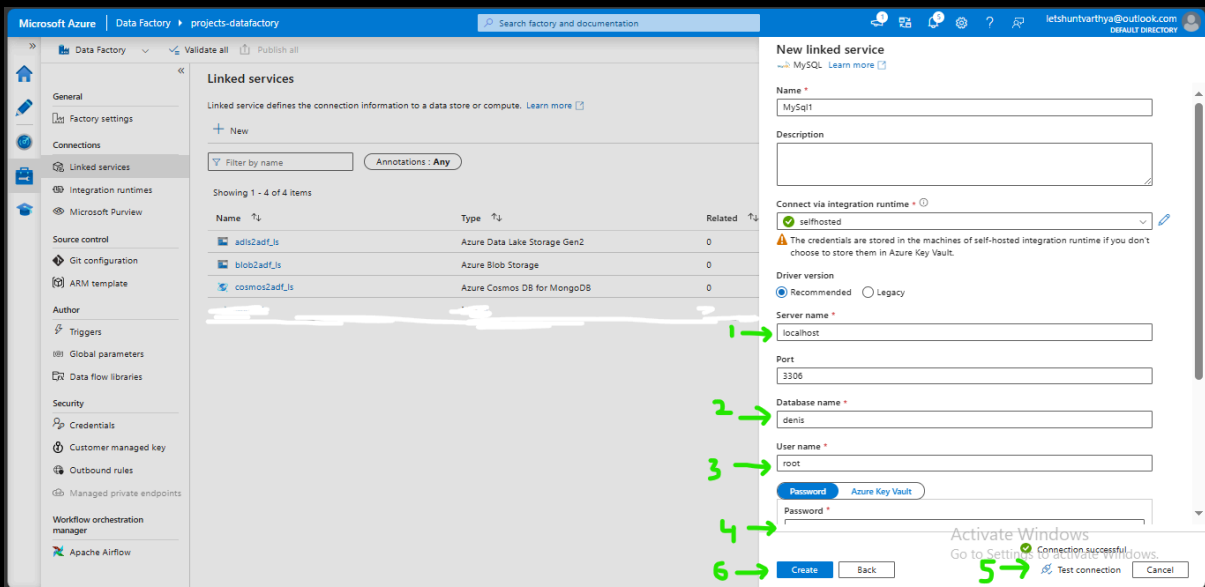
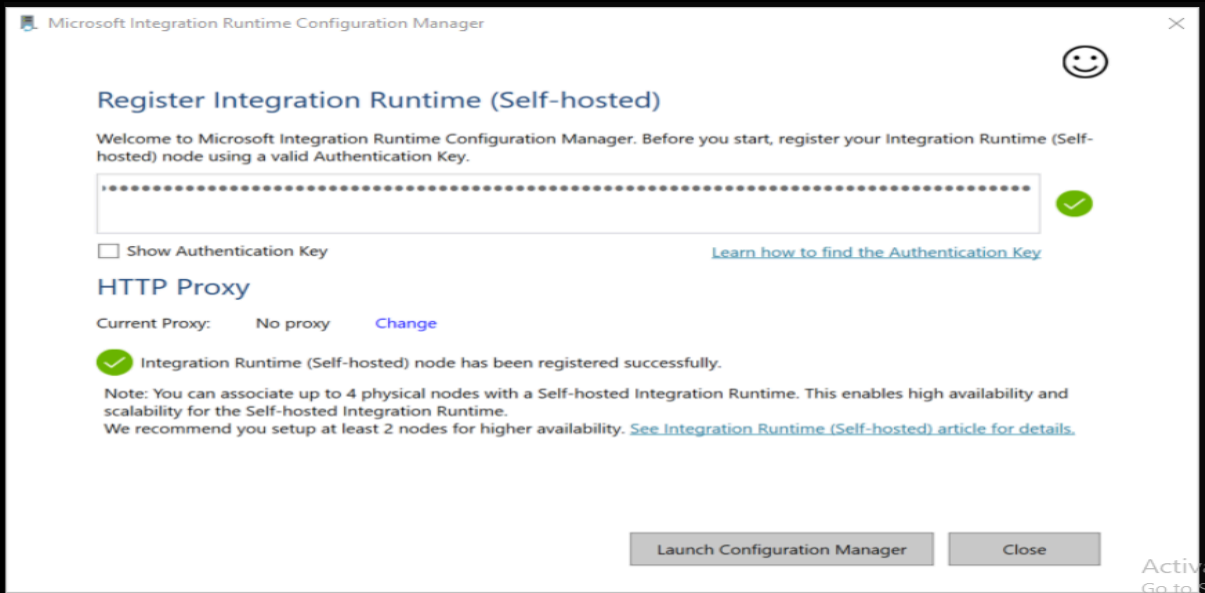
User name *

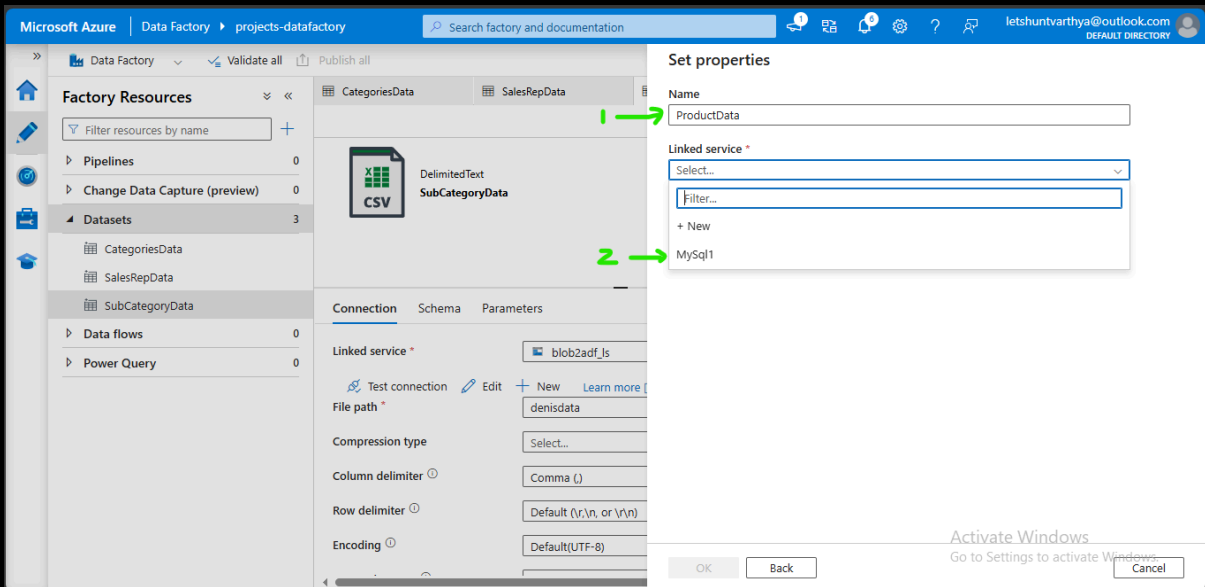
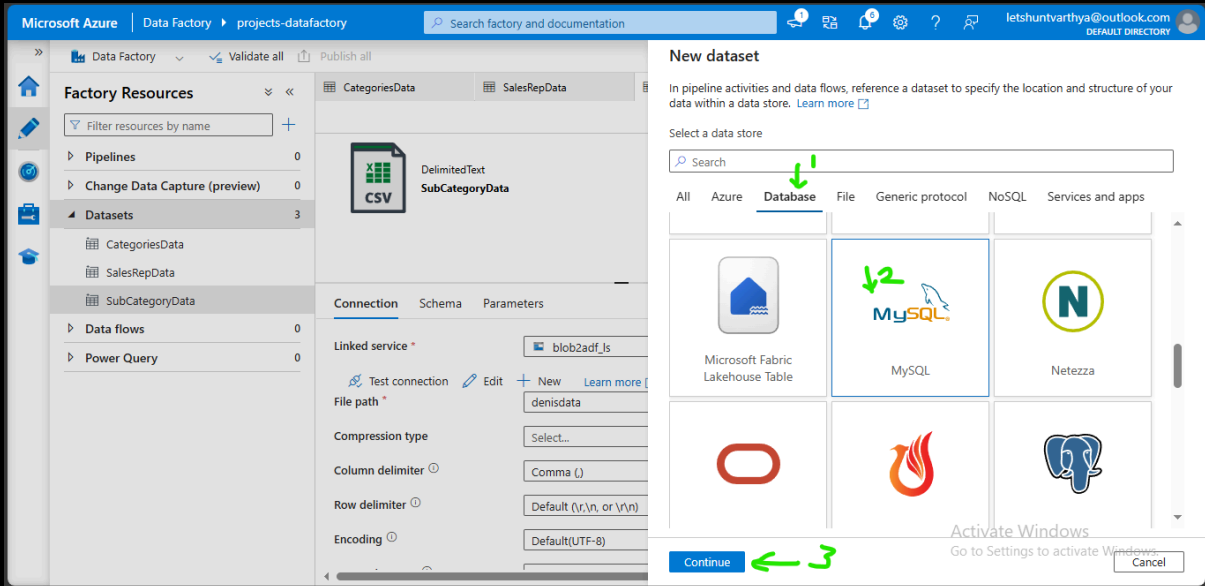
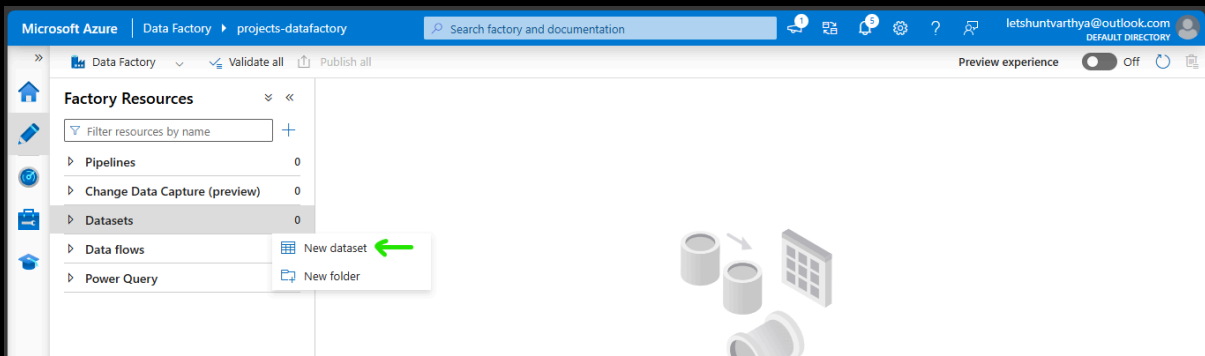
Create Back Test connection Cancel

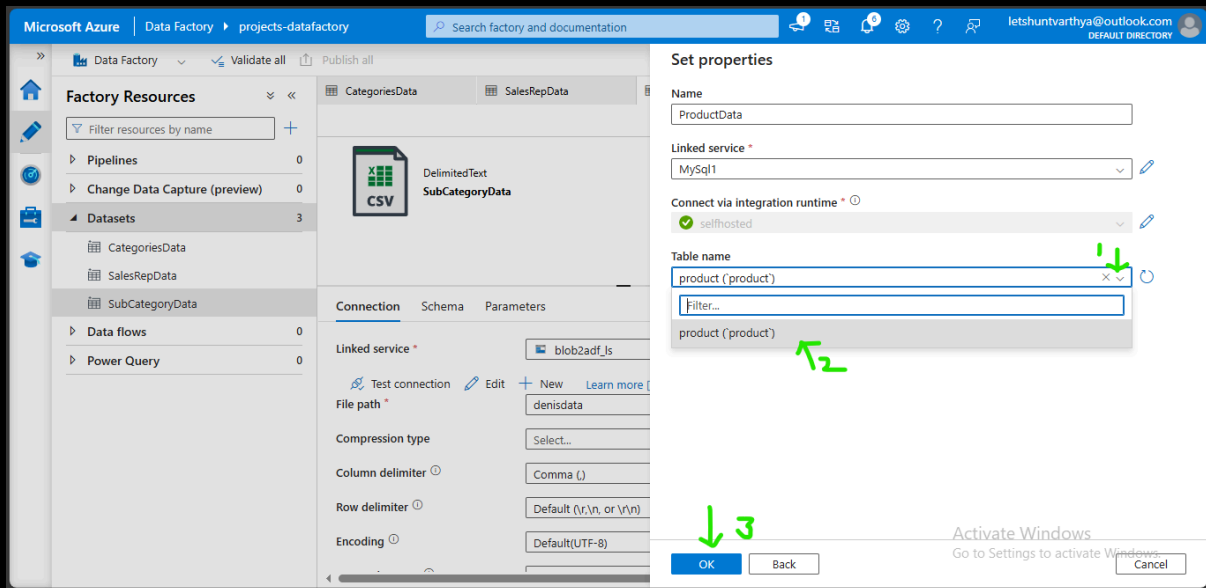


- After downloading the **Self Integration Runtime**, copy the **key1** or **key2** and paste in the **self Integration Runtime**.

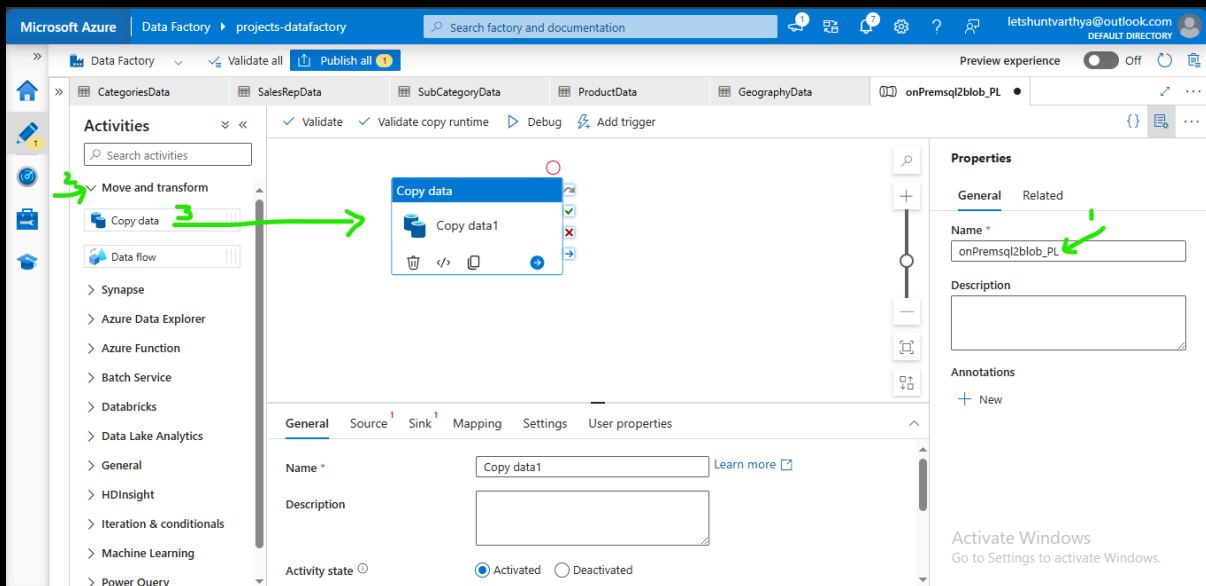
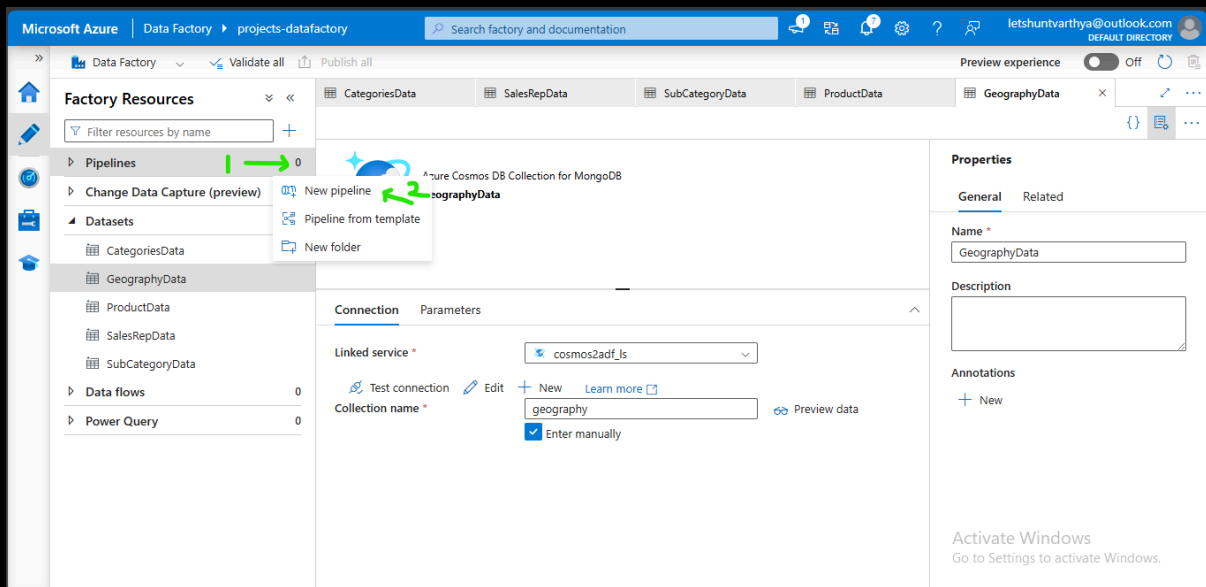


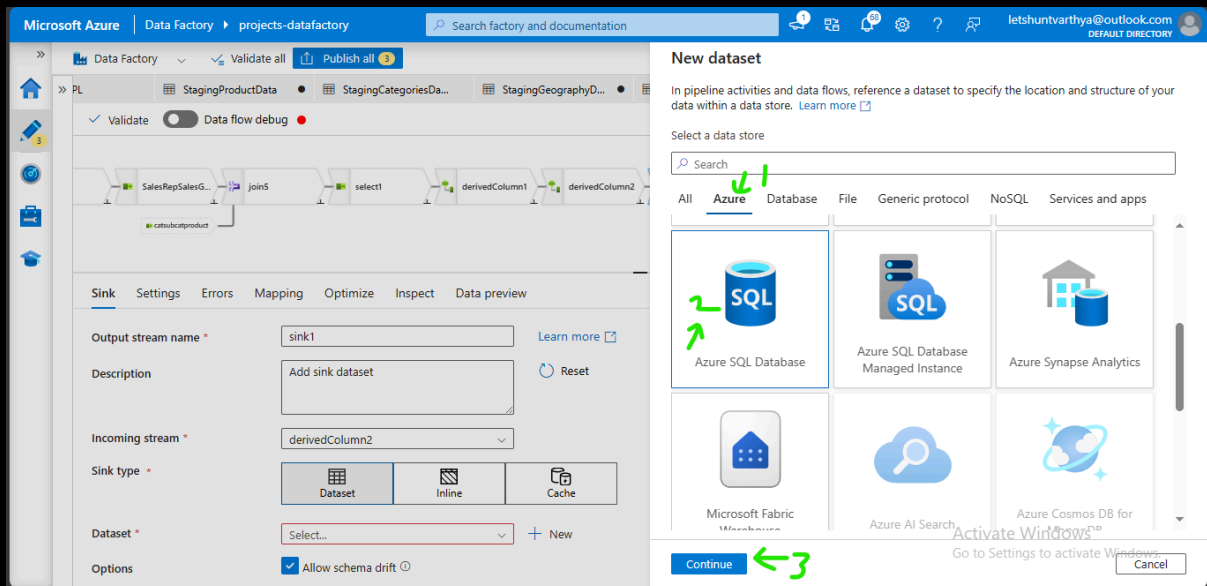
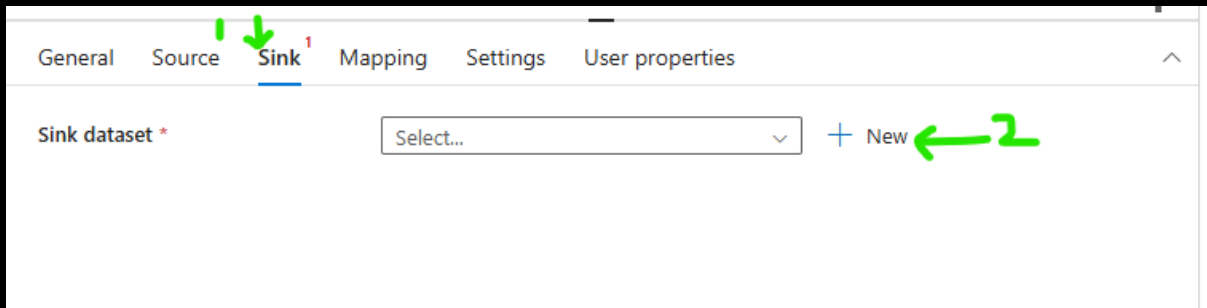
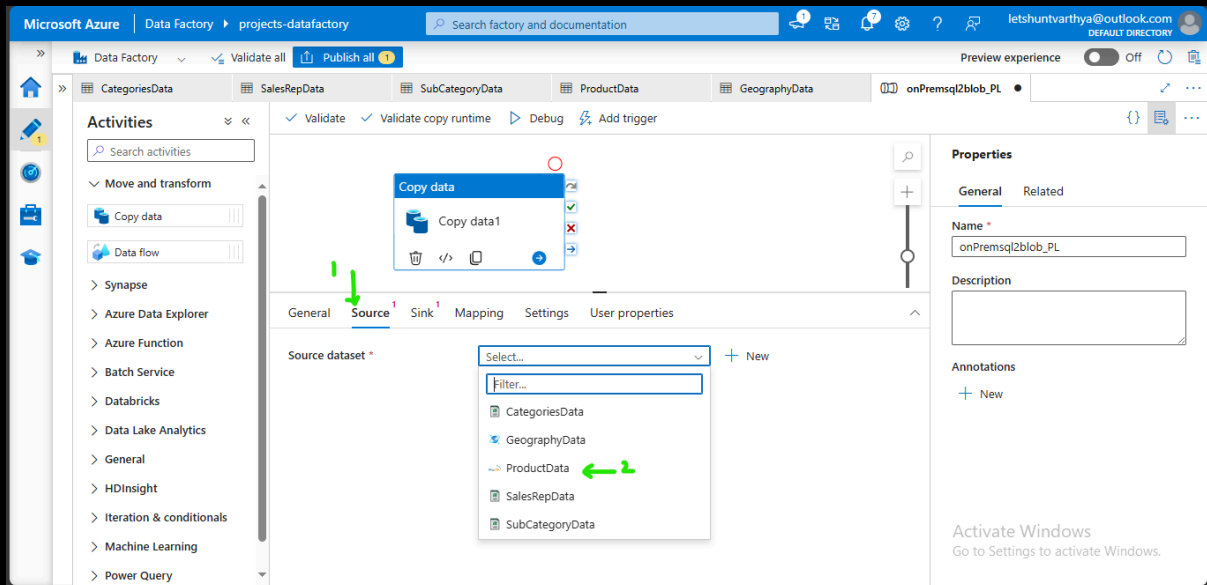






- Migration of product data to **Azure sql database**.






New linked service

 Azure SQL Database [Learn more](#) 

Name *

adf2asql_ls


Description


Connect via integration runtime * 

AutoResolveIntegrationRuntime

Version

☒ Recommended ☐ Legacy

 Import from connection string

Account selection method 

☒ From Azure subscription ☐ Enter manually

Azure subscription

Free Trial (c92e5287-784e-4a20-9e6c-8549947f2ee6)

Server name *

denisserver

Database name *

denisdatabase

Authentication type *

SQL authentication

User name *

denis_admin

Password


Azure Key Vault

Password *

Create

Cancel

 Connection successful

 Test connection

- Give the table name as **product_tb**

The screenshot shows the Microsoft Azure Data Factory interface. On the left, a data pipeline is visible with steps: SalesRepSalesG..., join5, select1, derivedColumn1, derivedColumn2, and 18 Columns. The 'Sink' tab is selected, showing the 'sink1' output stream name, 'Add sink dataset' description, 'derivedColumn2' incoming stream, and 'Dataset' type set to 'Dataset'. The 'Options' section has 'Allow schema drift' checked. On the right, the 'Set properties' dialog is open for 'DenisFinalData'. The 'Linked service' is 'adf2asql_ls'. The 'Schema and table name' section shows 'Schema name' as 'Denis_Tb' and 'Table name' as 'product_tb'. The 'Advanced' section is expanded. At the bottom, there are 'OK', 'Back', and 'Cancel' buttons. A green arrow labeled '1' points to the 'New table' radio button, a green arrow labeled '2' points to the 'Table name' field, and a green arrow labeled '3' points to the 'OK' button.

- Publish all → publish
- Add trigger → Trigger now
- We can see the data in azure sql database by querying it.