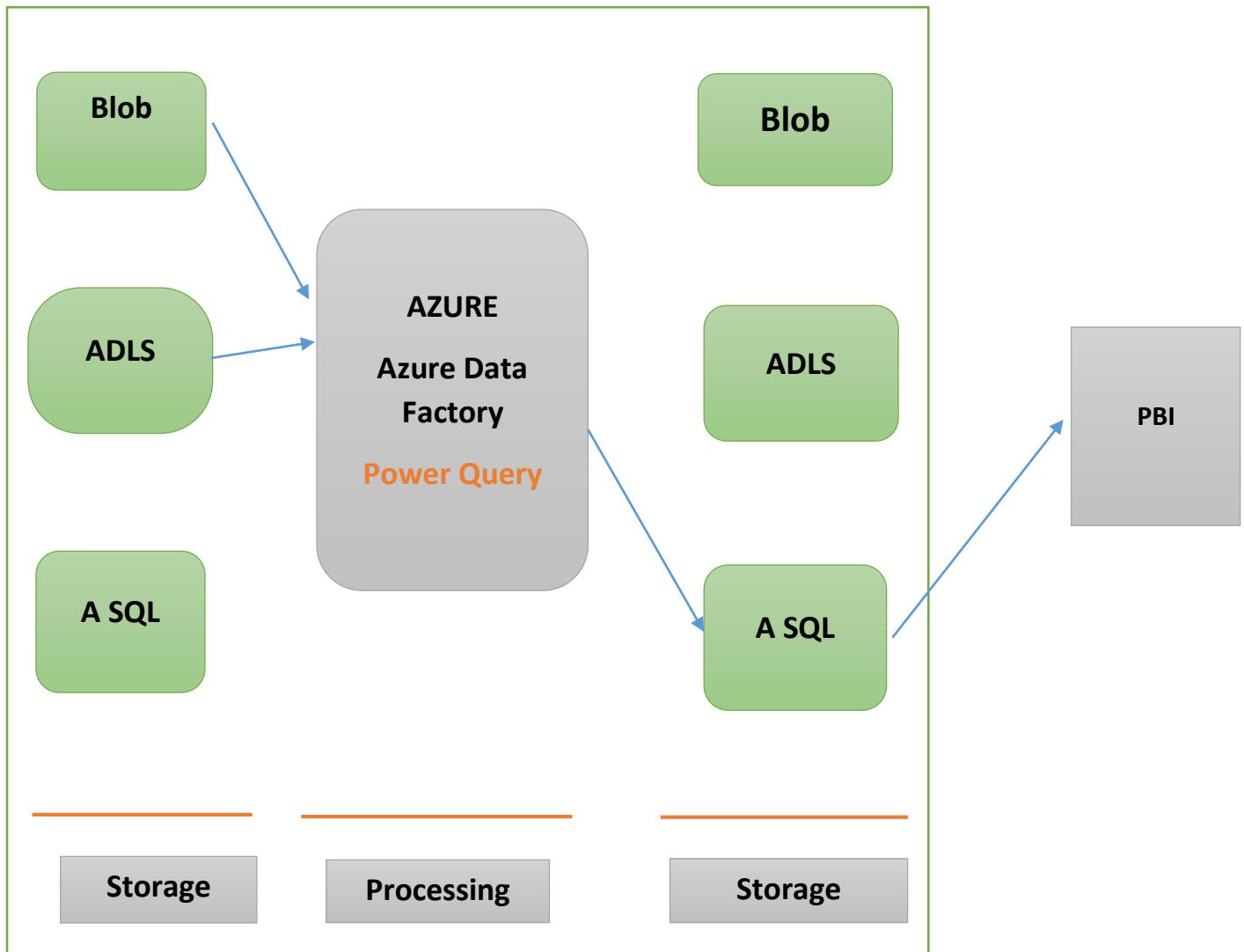


Azure To Power BI Connectivity using DataFlow (Documentation)

Pipeline No-3

1.AZURE



2.Service used:

- a) Blob storage
- b) Azure data factory
- c) Azure SQL Server

Blob/adls→Azure data factory(Dataflow)→Azure SQL database→Power BI

Note-All step of creating the storage account,azure data factory ,Azure sql server are available in Pipeline -1

Need to create one more storage account for ADLS

Home > Create a resource > Marketplace > Storage account >

Create a storage account ...

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *

Resource group * [Create new](#)

Instance details

Storage account name *

Region * [Deploy to an Azure Extended Zone](#)

Performance * Standard: Recommended for most scenarios (general-purpose v2 account)
 Premium: Recommended for scenarios that require low latency.

Redundancy *

[Previous](#) [Next](#) [Review + create](#)

Click on enable hierarchical namespace

Home > Create a resource > Marketplace > Storage account >

Create a storage account

Security
Configure security settings that impact your storage account.

Require secure transfer for REST API operations

Allow enabling anonymous access on individual containers

Enable storage account key access

Default to Microsoft Entra authorization in the Azure portal

Minimum TLS version

Permitted scope for copy operations (preview)

Hierarchical Namespace
Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs) [Learn more](#)

Enable hierarchical namespace

Access protocols
Blob and Data Lake Gen2 endpoints are provisioned by default [Learn more](#)

Enable SFTP

[Previous](#) [Next](#) [Review + create](#)

Microsoft Azure | Data Factory > ADFpipeline3

Search factory and documentation

Preview experience Off

manjali.patil@outlook.com DEFAULT DIRECTORY

Factory Resources

Pipelines 0

Change Data Capture (preview) 0

Datasets 0

Data flows New dataset

Power Query New folder

New dataset

Select an item

Use the resource explorer to select or create a new item

Go to azure sql database & click on table

The screenshot shows the Microsoft Azure portal interface for a SQL database. The left sidebar has a 'Query editor (preview)' section selected. In the main area, under 'Tables', there is a single entry: 'dbo.EmpBike_Tb'. Below the table list, there are tabs for 'Results' and 'Messages'.

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists 'Pipelines', 'Change Data Capture (preview)', 'Datasets', 'Data flows', and 'Power Query'. On the right, the 'New dataset' dialog is open. It asks to 'Select a data store' and shows a grid of options. 'Azure Blob Storage' is highlighted with a yellow border. Other options include 'Apache Impala', 'Azure AI Search', 'Azure Cosmos DB for', 'Azure Cosmos DB for', and 'Azure Data Explorer'. At the bottom are 'Continue' and 'Cancel' buttons.

The screenshot shows the 'Select format' dialog from the Microsoft Azure Data Factory interface. It asks to 'Choose the format type of your data' and displays a grid of nine options: Avro, Binary, CSV, DelimitedText, Excel, JSON, ORC, Parquet, and Text. 'DelimitedText' is highlighted with a yellow border. At the bottom are 'Continue', 'Back', and 'Cancel' buttons.

Create a link service blob2adf

The screenshot shows the Microsoft Azure Data Factory interface. The left sidebar lists 'Factory Resources' including Pipelines, Change Data Capture (preview), Datasets, Data flows, and Power Query. The 'Datasets' item is selected. The main area is titled 'Set properties' and contains fields for 'Name' (set to 'empdata') and 'Linked service' (a dropdown menu labeled 'Select...'). A checkbox 'First row as header' is checked. At the bottom are 'OK', 'Back', and 'Cancel' buttons.

The screenshot shows the 'New linked service' configuration page in the Azure Data Factory interface. On the left, there's a sidebar titled 'Factory Resources' with options like Pipelines, Change Data Capture (preview), Datasets, Data flows, and Power Query. The 'Datasets' section is currently selected. The main area is titled 'New linked service' and specifies 'Azure Blob Storage' as the type. The 'Name' field contains 'blob2adf_ls'. Under 'Connect via integration runtime', 'AutoResolveIntegrationRuntime' is selected. The 'Authentication type' dropdown is set to 'Account key'. Below these, there are tabs for 'Connection string' (selected) and 'Azure Key Vault'. Under 'Account selection method', the radio button for 'From Azure subscription' is selected. A dropdown for 'Azure subscription' shows 'Free Trial (5eae54e3-3785-4d81-9246-be678d909b30)'. At the bottom right are 'Create' and 'Cancel' buttons, and a 'Test connection' link.

Click on publish button

The screenshot shows the 'Properties' page for the 'empdata' dataset in the Azure Data Factory interface. The 'General' tab is selected. The 'Name' field is set to 'empdata'. The 'Description' field is empty. On the left, the 'Factory Resources' sidebar shows 'Datasets' selected, with 'empdata' listed. The main area displays the dataset details: it's a 'DelimitedText' type with a 'CSV' icon. The 'Connection' tab is active, showing 'blob2adf_ls' as the linked service. Other tabs include 'Schema' and 'Parameters'. The 'Annotations' section has a '+ New' button. At the top right, there's a 'Publish all' button with a yellow background and white text. The top navigation bar includes 'Microsoft Azure | Data Factory > ADPipeline3', a search bar, and user information 'marjali.pati@outlook.com DEFAULT DIRECTORY'.

Microsoft Azure | Data Factory > ADFpipeline3

Search factory and documentation

Publishing 1

Factory Resources

empdata

DelimitedText CSV

Connection Schema Parameters

Linked service * blob2adf_ls

Test connection Edit New

File path * dataset-superstoredata... / Directory / 2734

Compression type Select...

Column delimiter Comma (,)

Row delimiter Default (\r,\n, or \v\r)

Publish Cancel

Publish all

You are about to publish all pending changes to the live environment. Learn more

Pending changes (1)

NAME	CHANGE	EXISTING
empdata	(New)	-

Create new dataset for ADLS

Microsoft Azure | Data Factory > ADFpipeline3

Search factory and documentation

Validate all Publish all

Preview experience Off

Factory Resources

empdata

DelimitedText CSV

New dataset

Properties

General Related

Name * empdata

Description

Annotations

Link

Connection Schema Parameters

Linked service * blob2adf_ls

Test connection Edit New Learn more

File path * dataset-superstoredata... / Directory / 2734

Compression type Select...

Column delimiter Comma (,)

Row delimiter Default (\r,\n, or \v\r)

New dataset

In pipeline activities and data flows, reference a dataset to specify the location and structure of your data within a data store. [Learn more](#)

Select a data store

Search:

All	Azure	Database	File	Generic protocol	NoSQL	Services and apps
Azure Cosmos DB for MongoDB	Azure Cosmos DB for NoSQL	Azure Data Explorer (Kusto)				
Test connection	Edit	New	dataset-s...	Select...	Continue	Cancel

Set properties

Name:

Linked service: [Select...](#)

First row as header:

OK Back Cancel

New linked service

Azure Data Lake Storage Gen2 [Learn more](#)

Name:

Description:

Connect via integration runtime: [AutoResolveIntegrationRuntime](#)

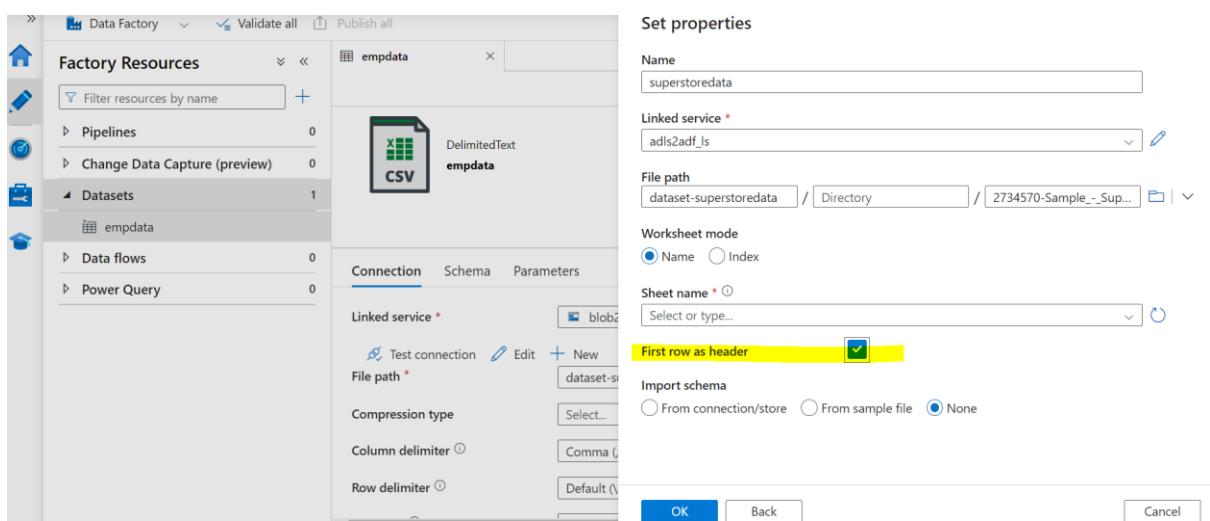
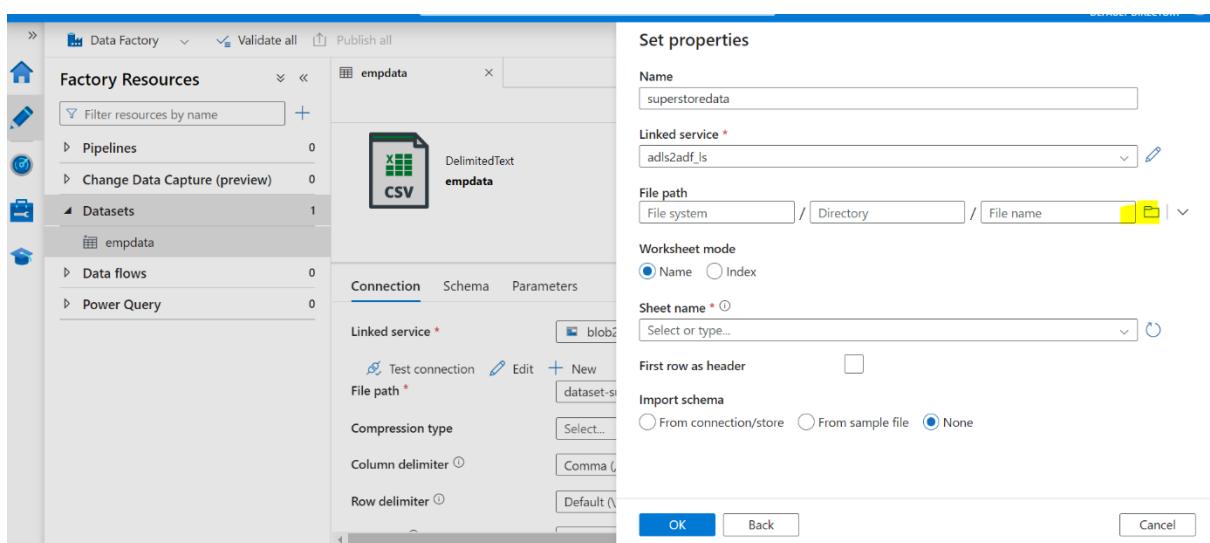
Authentication type: Account key

Account selection method: From Azure subscription (selected)

Azure subscription: Free Trial (Seae54e3-3785-4d81-9246-be678d909b30)

Storage account name:

Create Cancel [Test connection](#)

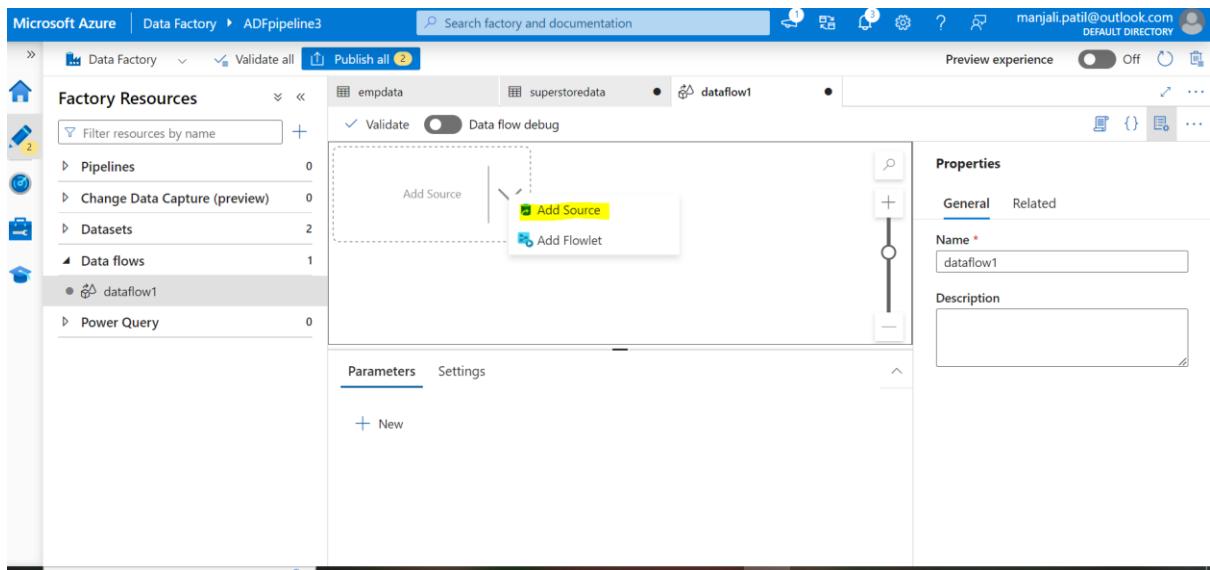


Need to create transformation

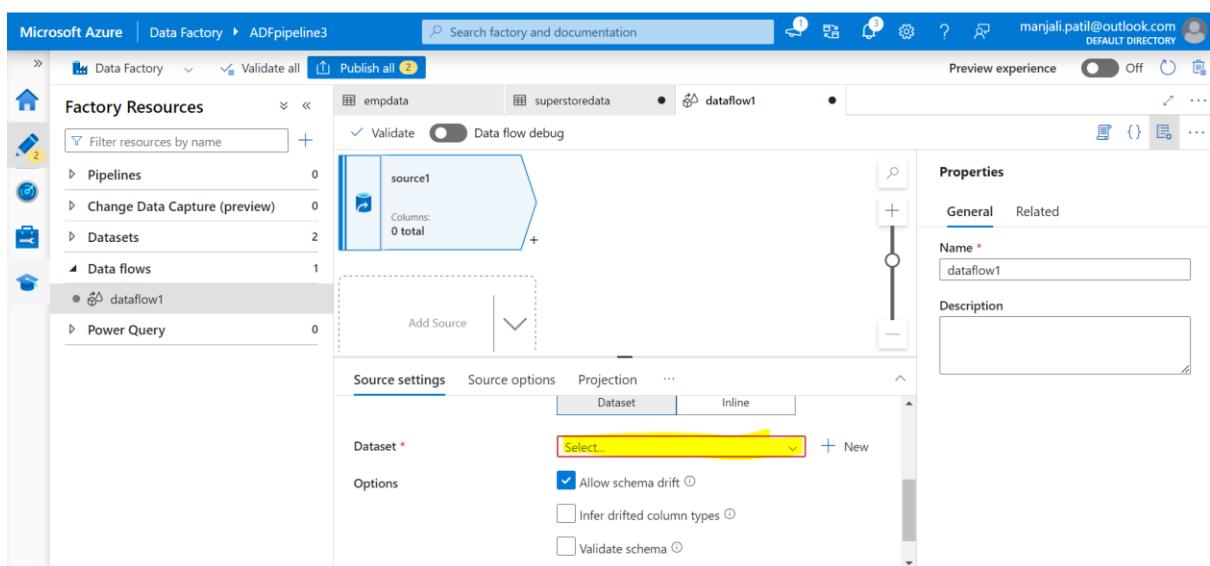
Go to data flows & click on new data flow

The screenshot shows the Microsoft Azure Data Factory interface. The left sidebar lists 'Factory Resources' including Pipelines, Change Data Capture (preview), Datasets, and Data flows (which is highlighted with a yellow box). Below these are Power Query and a 'New data flow' button (also highlighted with a yellow box). The main workspace displays two datasets: 'empdata' and 'superstoredata'. A preview of an Excel dataset named 'superstoredata' is shown. On the right, the 'Properties' panel is open for the 'superstoredata' dataset, showing fields for Name (set to 'superstoredata'), Description, and Annotations.

Click on add source for blob storage



Go to dataset



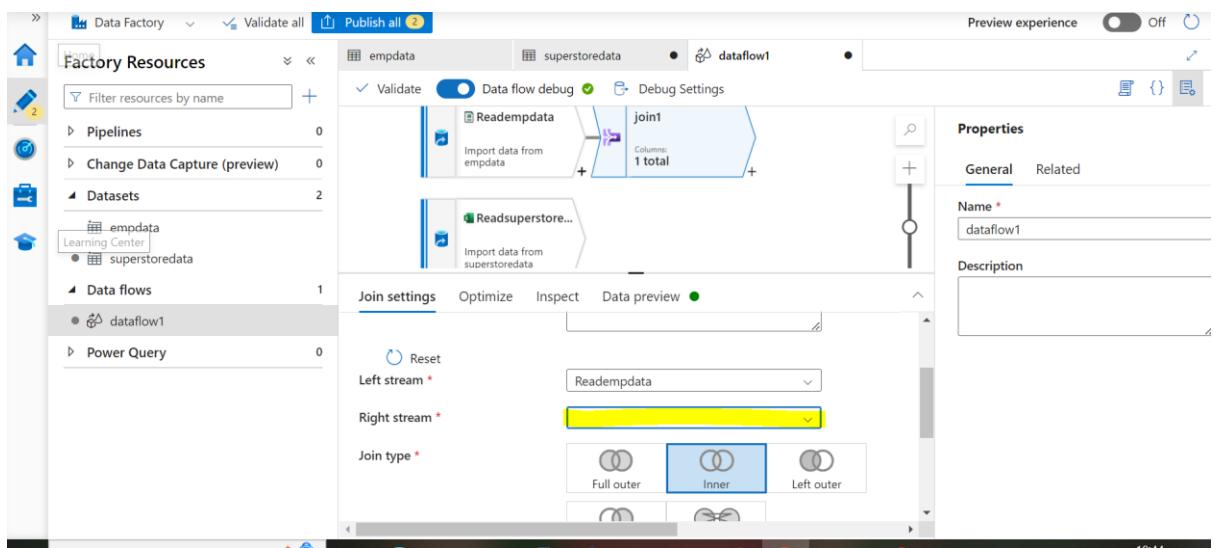
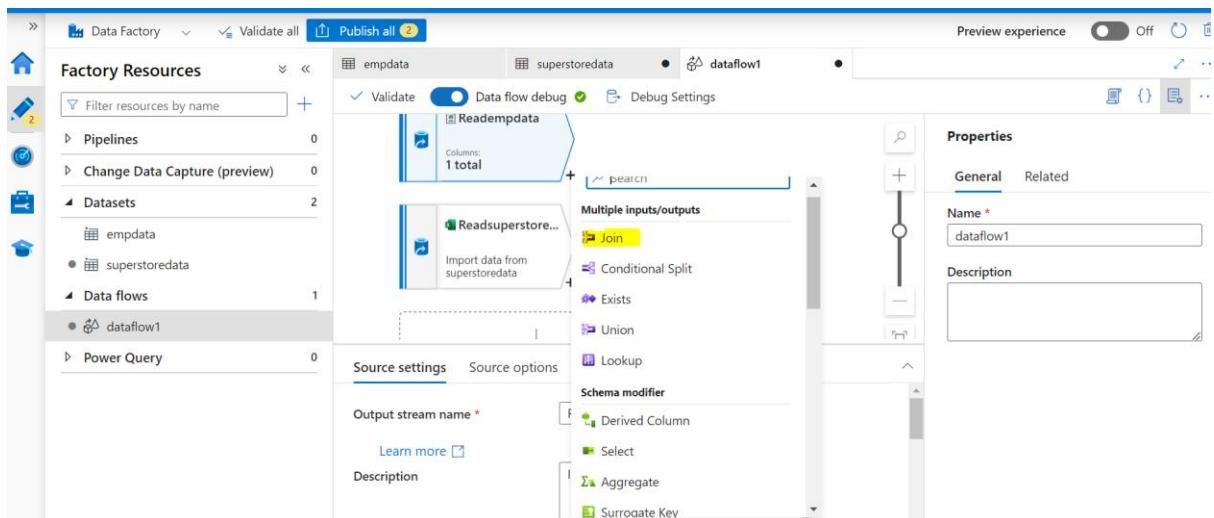
Rename the stream name & go to new source

The screenshot shows the Microsoft Azure Data Factory Data Flow blade. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (0), 'Change Data Capture (preview)' (0), 'Datasets' (2), 'Data flows' (1), and 'Power Query' (0). The 'Data flows' section is selected, showing a data flow named 'dataflow1'. The main workspace displays a data flow diagram with a single source dataset named 'Readempdata' from the 'empdata' dataset. The properties pane on the right shows the 'General' tab with 'Name' set to 'dataflow1' and 'Description' set to 'Import data from empdata'. A 'Source settings' tab is also visible.

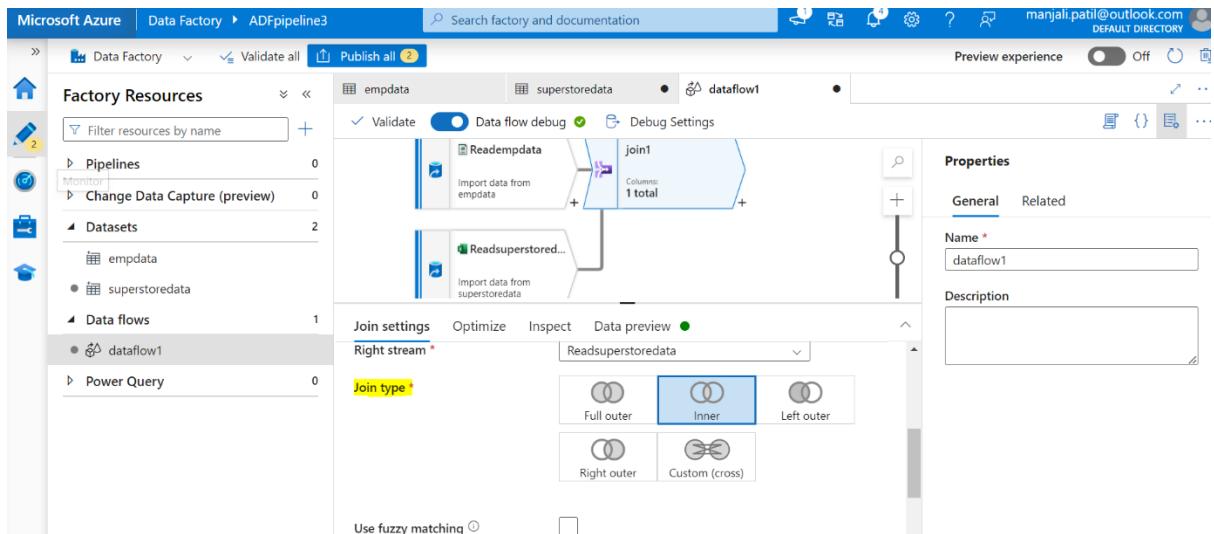
If you want to see the data switch on debug mode

This screenshot shows the Microsoft Azure Data Factory Data Flow blade with the 'Data flow debug' toggle switch turned on. The data flow diagram now shows a source dataset named 'Readsuperstore...' from the 'superstoredata' dataset. The properties pane on the right shows the 'General' tab with 'Name' set to 'dataflow1' and 'Description' left blank. The 'Source settings' tab is also visible.

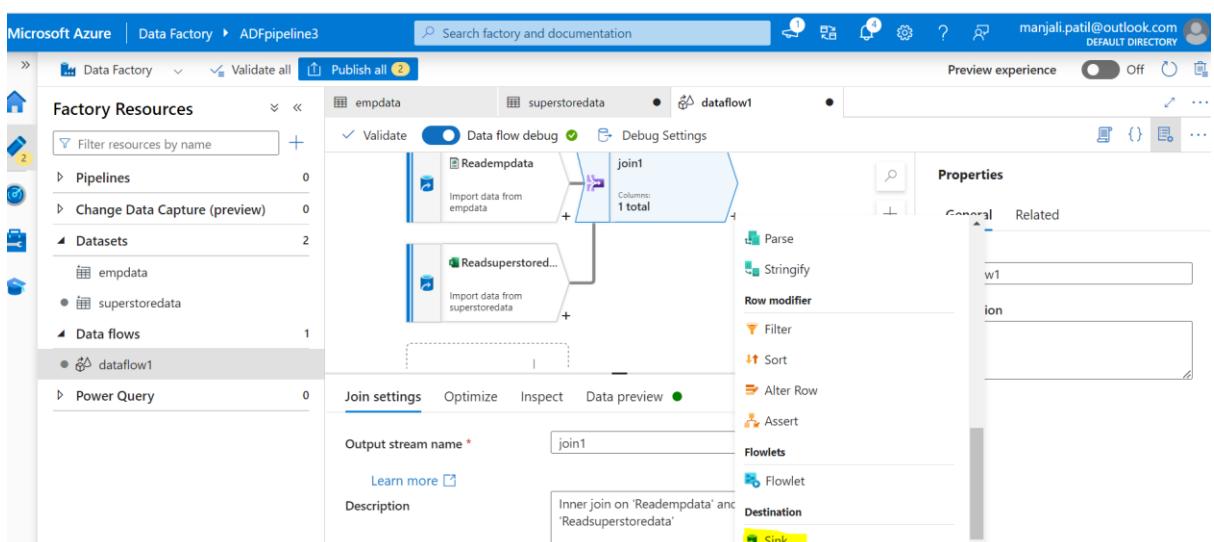
Need to join blob storage data & adls data



If you want join type click on join type



Need to close this so click on sink

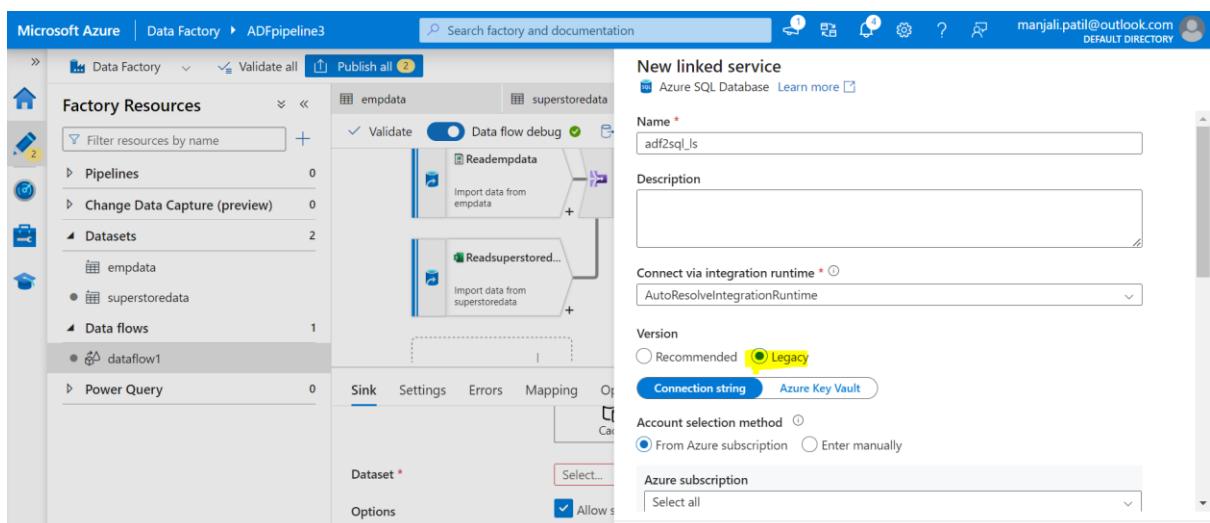
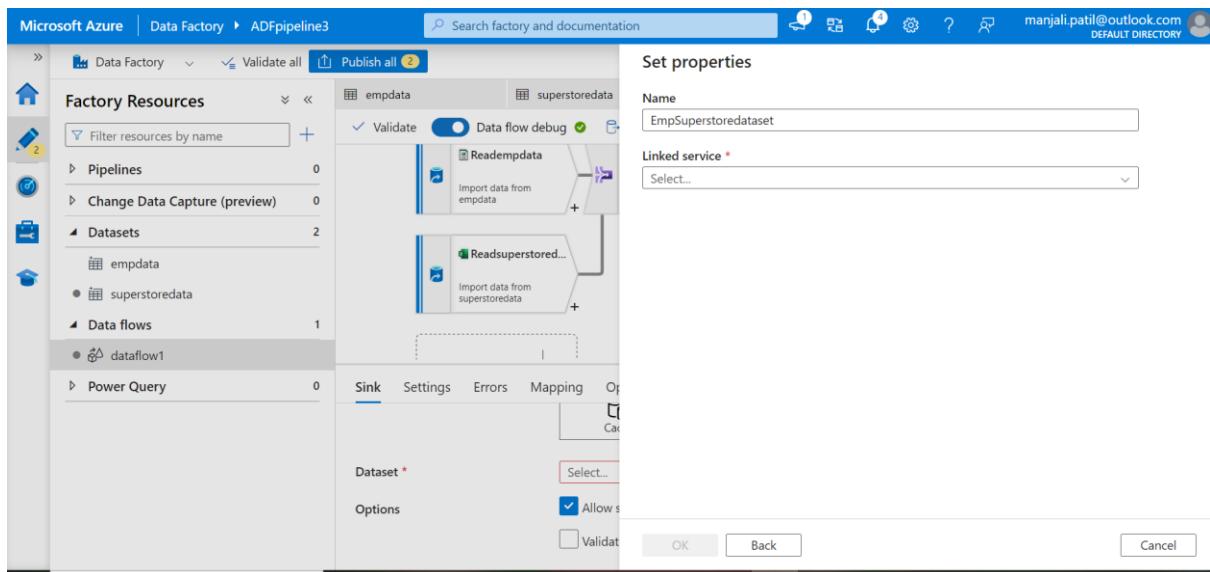


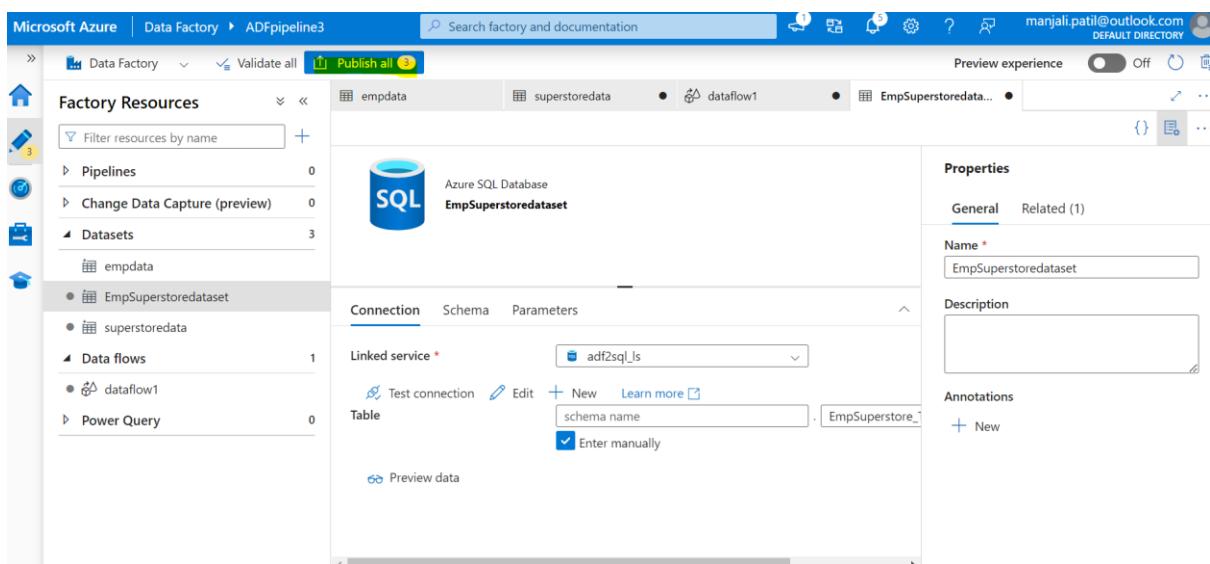
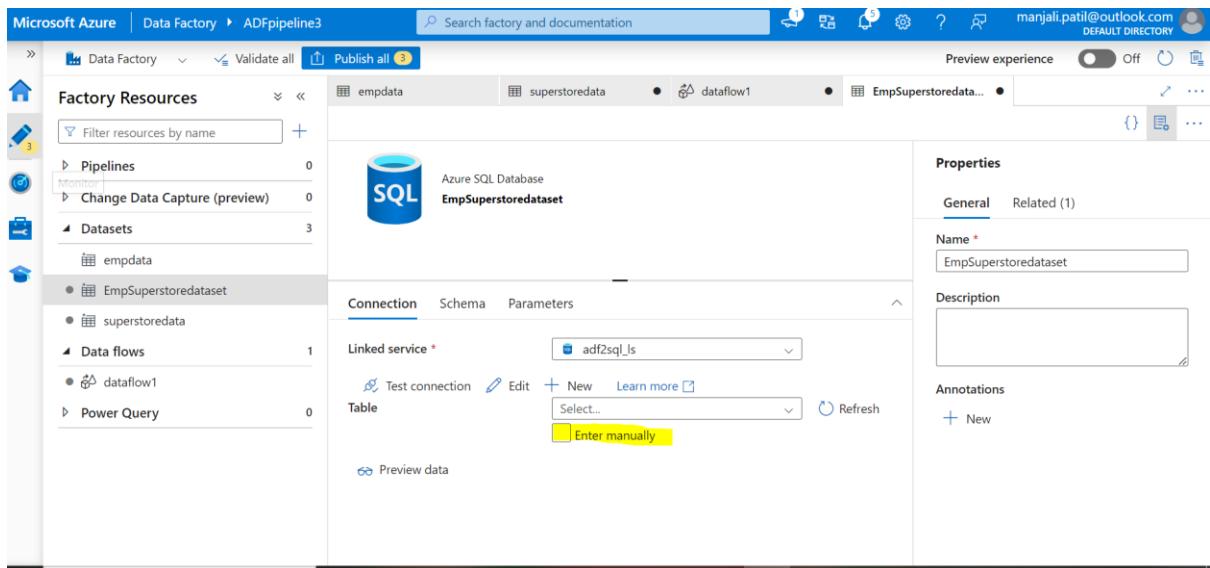
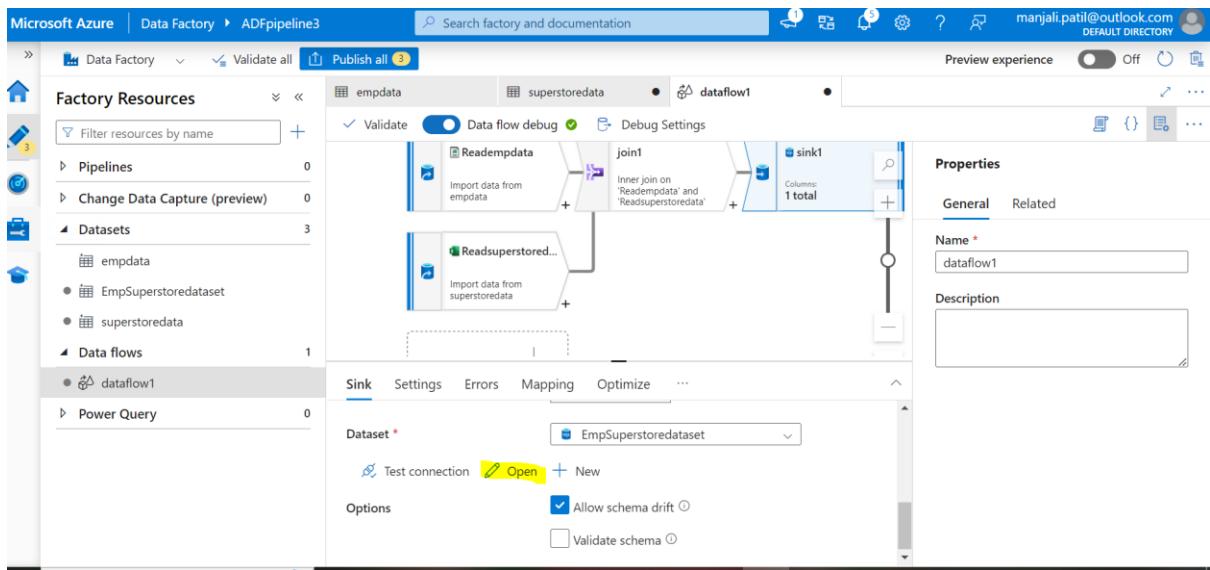
Go to dataset & create new dataset

The screenshot shows the Microsoft Azure Data Factory Data Flow blade. A data flow named 'dataflow1' is displayed. The data flow consists of two source activities: 'Readempdata' and 'Readsuperstoredata', which are joined together via an 'Inner join on 'Readempdata' and 'Readsuperstoredata'' operation. The result is then written to a 'sink1' activity, which has a single column named '1 total'. The 'Properties' panel on the right shows the data flow is named 'dataflow1'. There are tabs for Sink, Settings, Errors, Mapping, and Optimize, along with a 'Dataset' dropdown and a 'Cache' button.

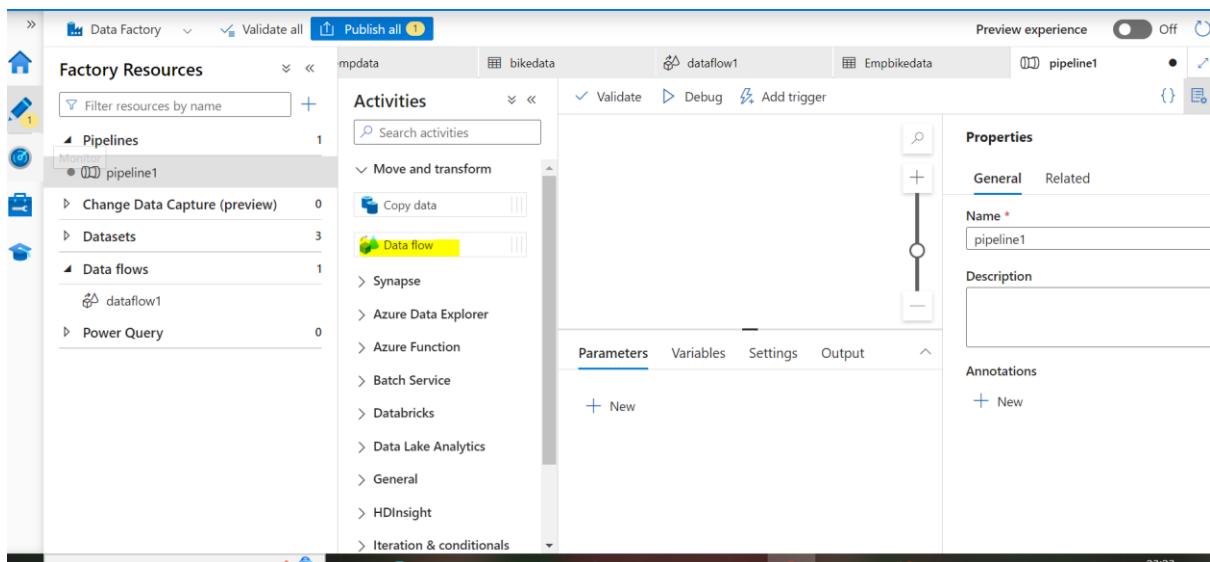
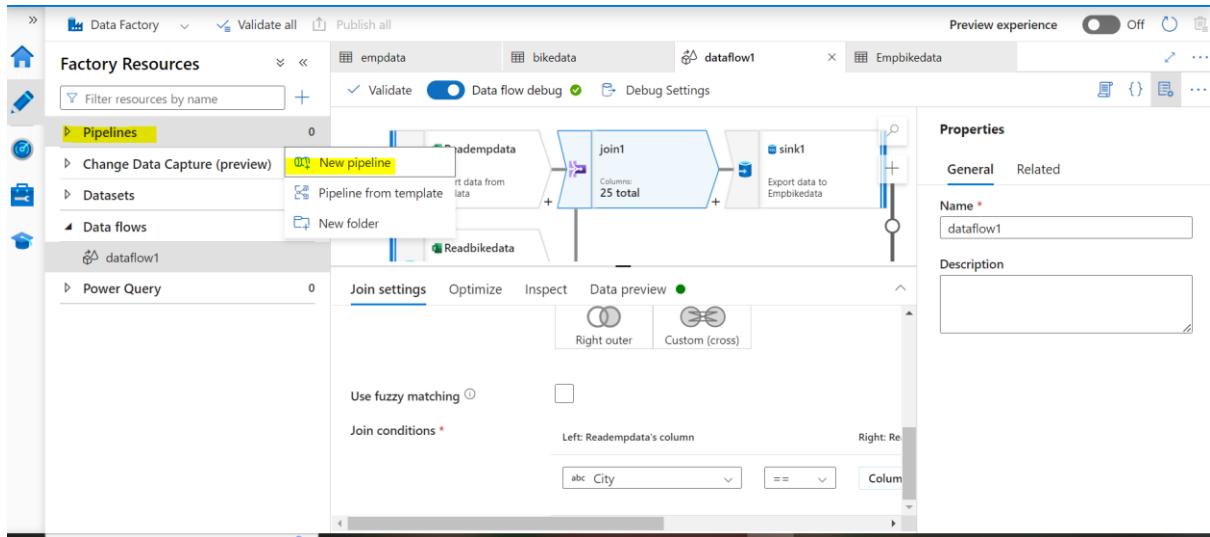
Go to azure SQL database

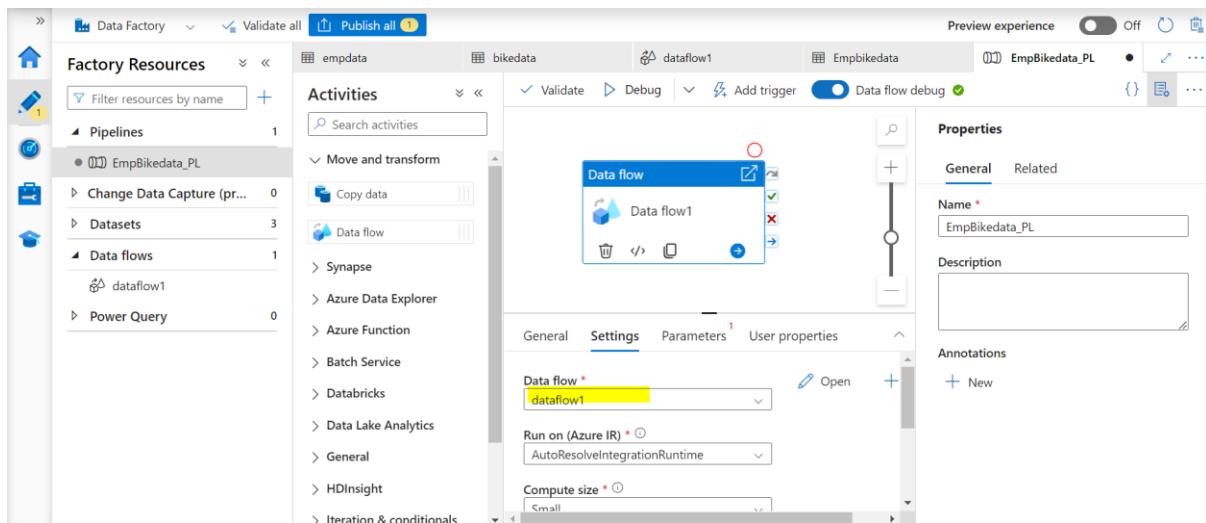
The screenshot shows the Microsoft Azure Data Factory Data Flow blade with a 'New dataset' dialog open. The dialog is used to reference a dataset for a data store. It shows a grid of data store options. The 'Azure SQL Database' option is highlighted with a yellow box. Other options include 'Azure Database for PostgreSQL' and 'Azure SQL Database Managed Instance'. At the bottom right of the dialog, there is a 'Continue' button.



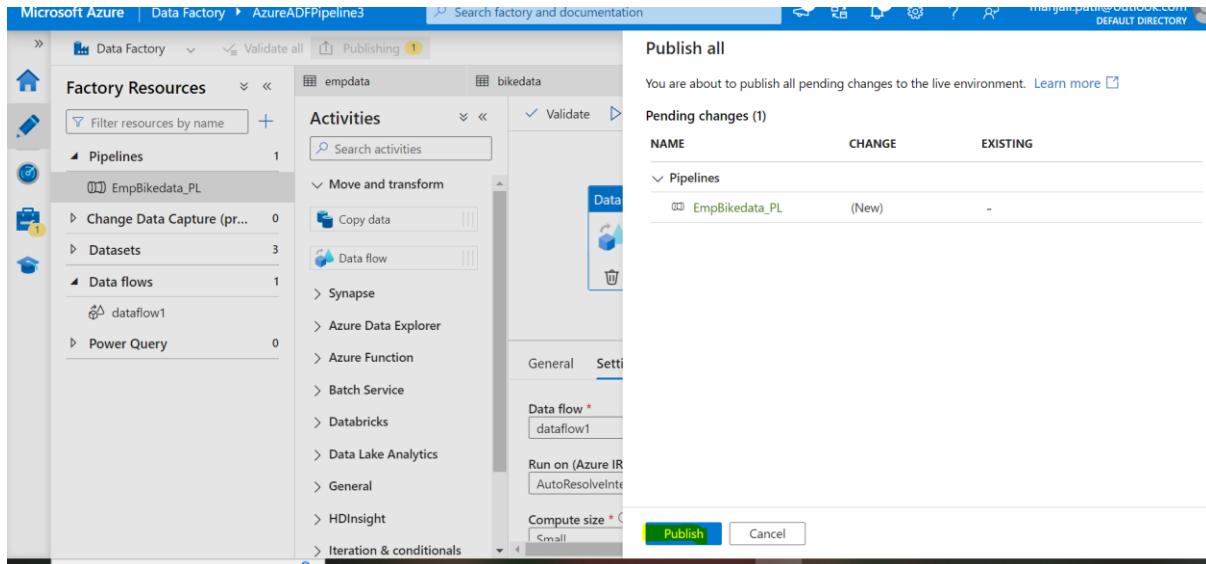
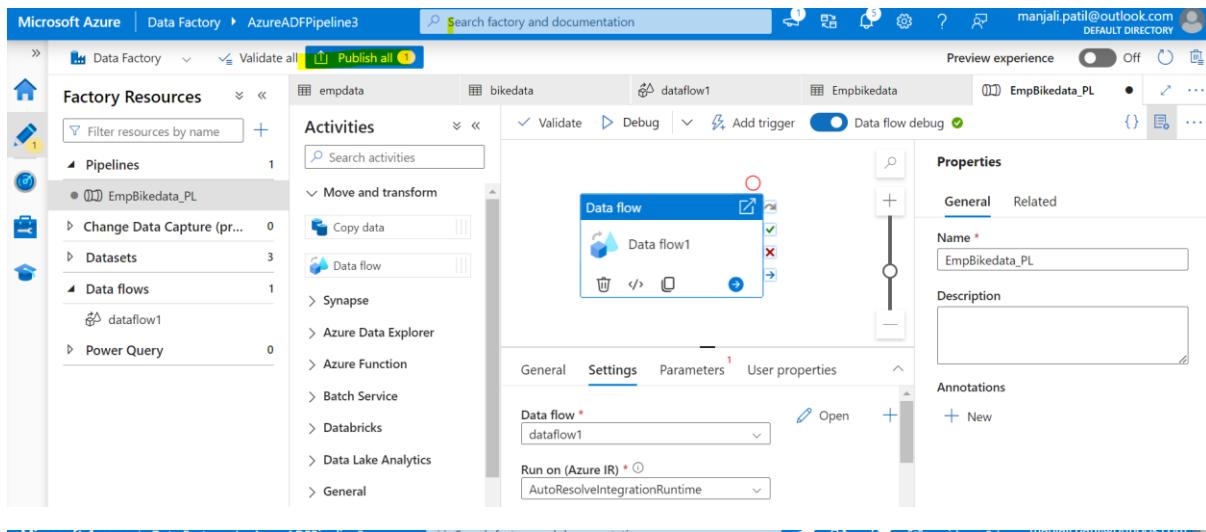


Go to pipeline & create new pipeline



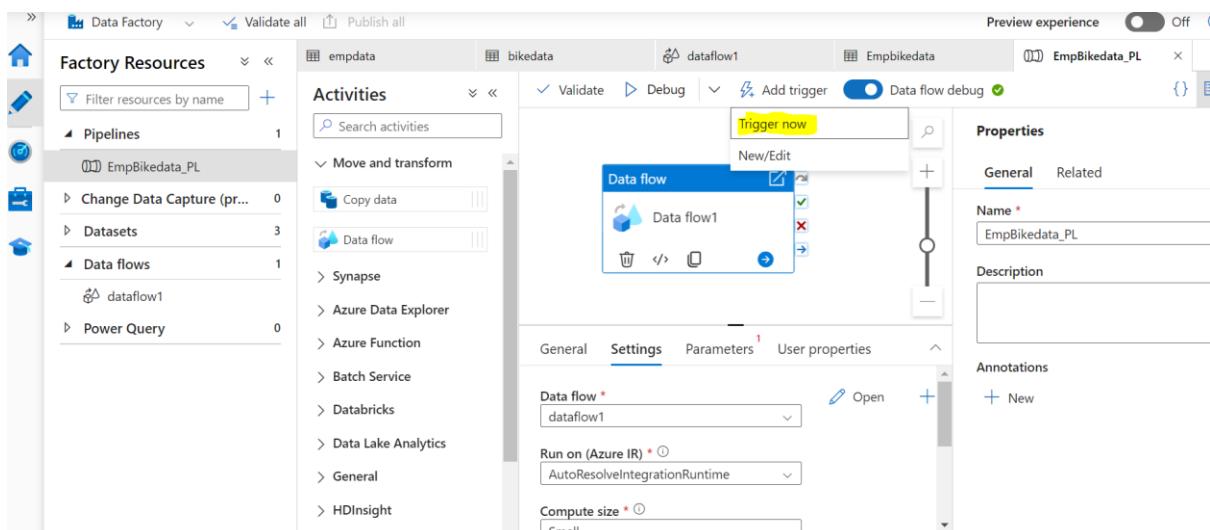
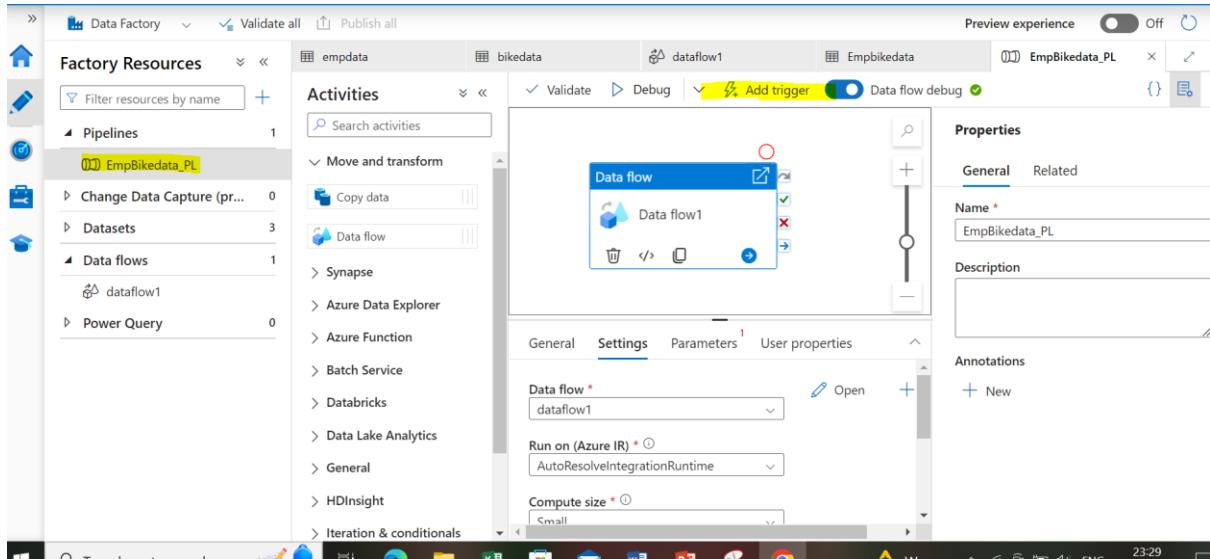


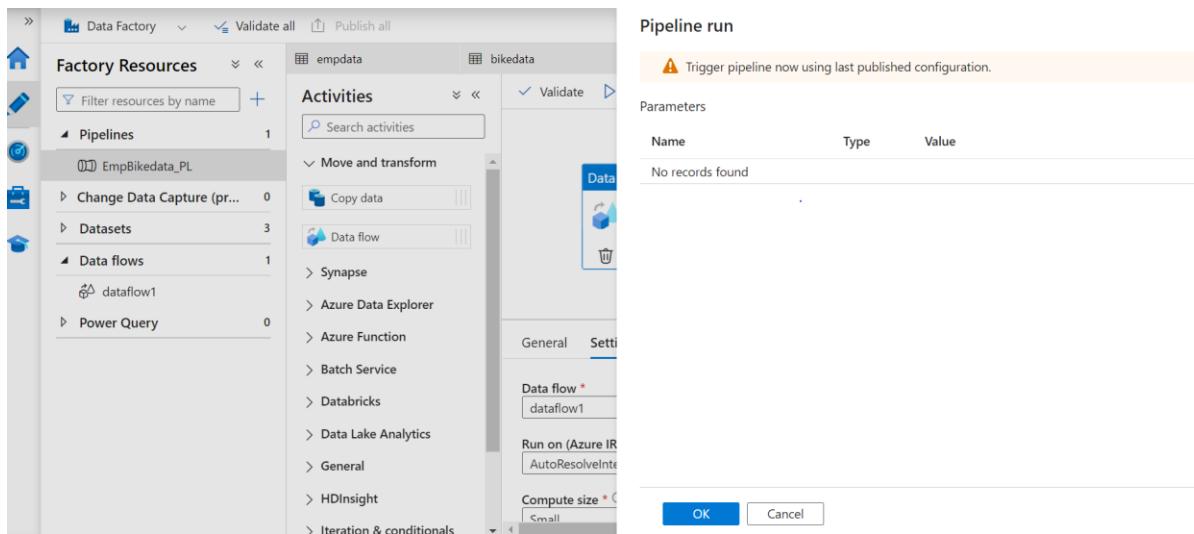
Click on Publish all & publish it



Now run the pipeline

Go to the pipelines & click on add trigger & go to the trigger now





The screenshot shows the 'All pipeline runs' interface for the 'EmpBikedata_PL' pipeline. The left sidebar includes 'Runs' (selected), 'Pipeline runs' (highlighted in blue), 'Trigger runs', 'Change Data Capture', 'Runtimes & sessions', 'Integration runtimes', 'Data flow debug', 'Notifications', and 'Alerts & metrics'. The main area shows the 'Activity runs' for the selected pipeline run ID: 0a916ffb-11da-4e33-be9d-50845afb3c55. It displays one activity named 'Data flow1' which is currently 'In progress'. Other columns include 'Activity name', 'Activity status', 'Activity type', 'Run start', 'Duration', 'Integration runtime', and 'User prc'. Buttons for 'List' and 'Gantt' views are at the top right, along with 'Monitor in Azure Metrics' and 'Export to CSV' options.

Microsoft Azure | Data Factory > AzureADPipeline3

Search factory and documentation

All pipeline runs > EmpBikedata_PL - Activity runs

Rerun Cancel Refresh Update pipeline List Gantt

Data flow Data flow1

Activity runs

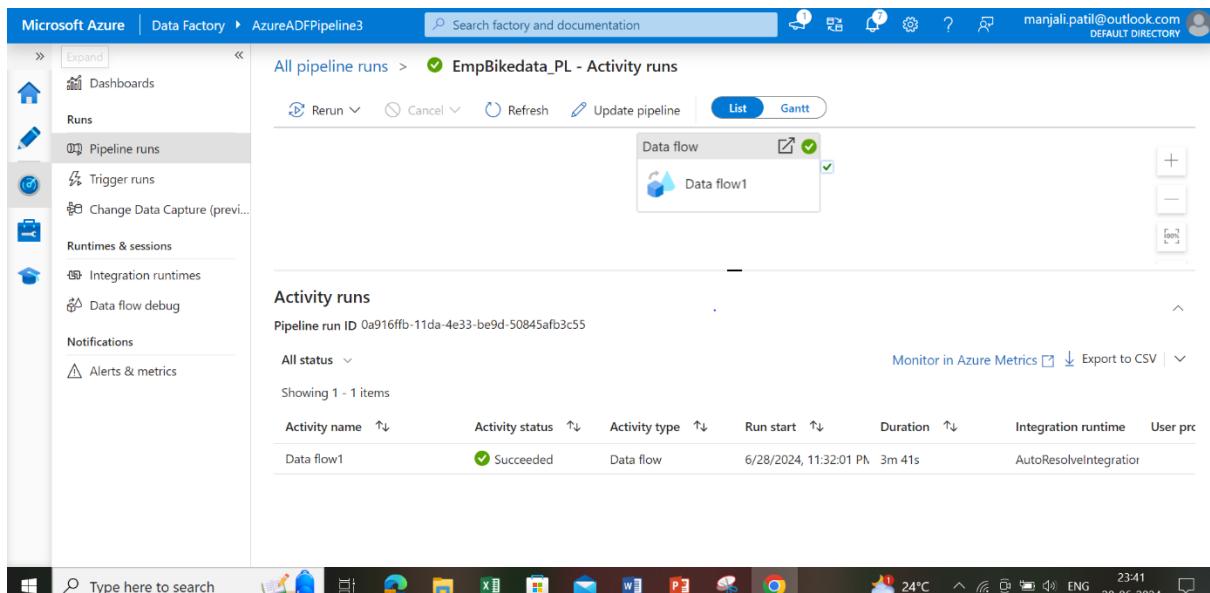
Pipeline run ID 0a916ffb-11da-4e33-be9d-50845afb3c55

All status Showing 1 ~ 1 items

Activity name	Activity status	Activity type	Run start	Duration	Integration runtime	User prc
Data flow1	Succeeded	Data flow	6/28/2024, 11:32:01 PM	3m 41s	AutoResolveIntegration	

Type here to search

Windows Taskbar: 24°C, ENG, 28-06-2024, 23:41



Home > azuresqldatabase (azuresqldatabase) | Query editor (preview)

azuresqldatabase (azuresqldatabase) | Query editor (preview)

SQL database

Search Login New Query Open query Feedback Getting started

Overview Activity log Tags Diagnose and solve problems Query editor (preview)

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

Query 1 Query 2 Query 3

Run Cancel query Save query Export data as Show only Editor Launch inline copilot

1 SELECT TOP (1000) * FROM [dbo].[EmpBike_Tb]

Results Messages

Search to filter items...

EEID	Full Name	Job Title	Department	Business Unit	Gender
------	-----------	-----------	------------	---------------	--------

