Step1 Creating Linked Services

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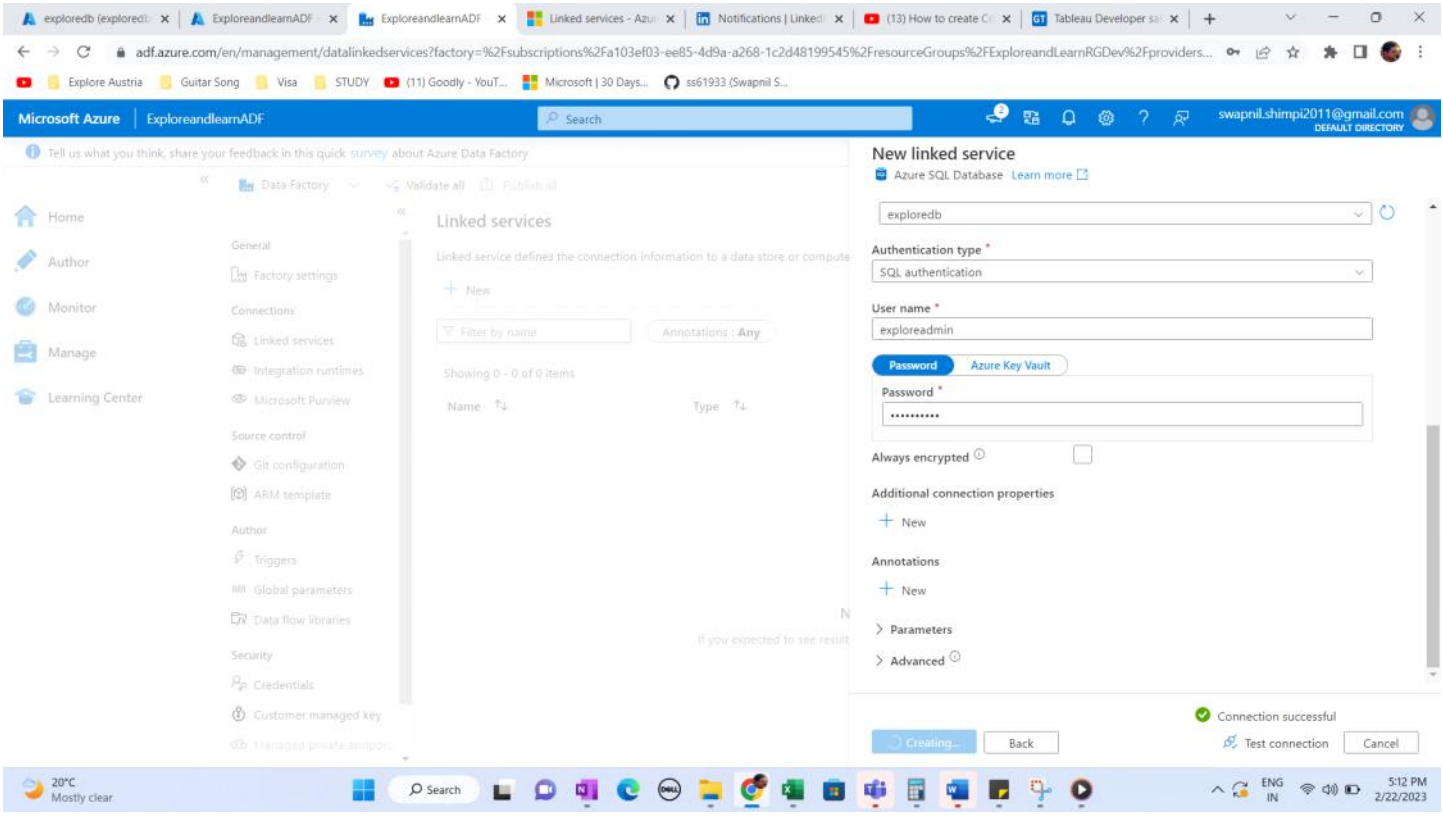
Linked service defines the connection information to a data store or compute.

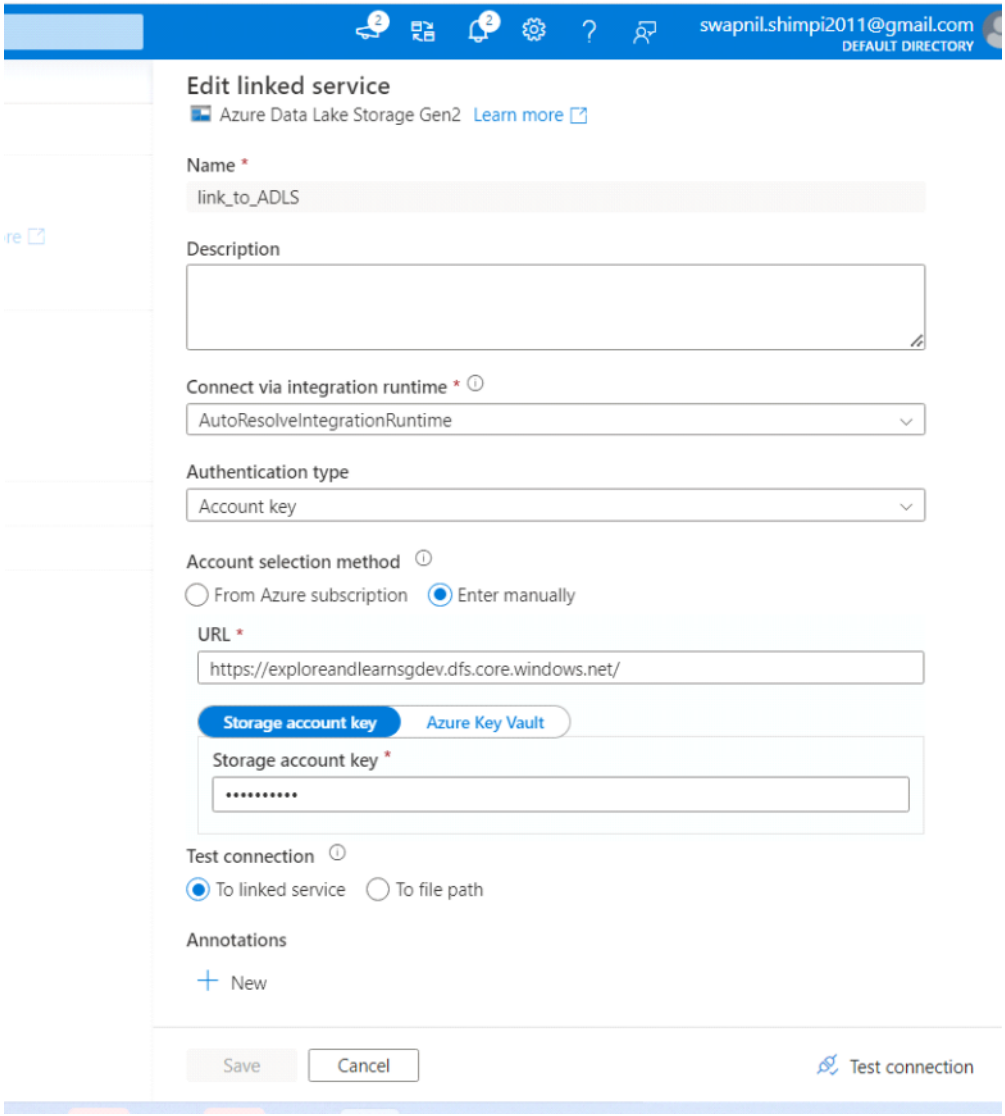
Creating Linked service to connect to **Azure Sql database**

1. Click on Mange - > Linked services - > New - > Azure sql Database
2. Provide Azure subscription - > Server name ->DB name - > Credentials
3. Keep default Integration run time environment value which is **AutoResolveIntegrationRuntime**
4. Click on test connection
5. Name the link service as **link_to_exploredb**



Creating Linked service to connect to **ADLS**

1. Click on New-> ADLS Gen2->and follow same steps
2. Name the service as **link_to_ADLS**


swapnil.shimpi2011@gmail.com
DEFAULT DIRECTORY
Edit linked service
Azure Data Lake Storage Gen2
Learn more
Name *
link_to_ADLS
Description
Connect via integration runtime *
AutoResolveIntegrationRuntime
Authentication type
Account key
Account selection method
From Azure subscription
Enter manually
URL *
https://exploreandlearnsgdev.dfs.core.windows.net/
Storage account key
Azure Key Vault
Storage account key *
Test connection
To linked service
To file path
Annotations
New
Save
Cancel
Test connection

Step2 Creating dataset

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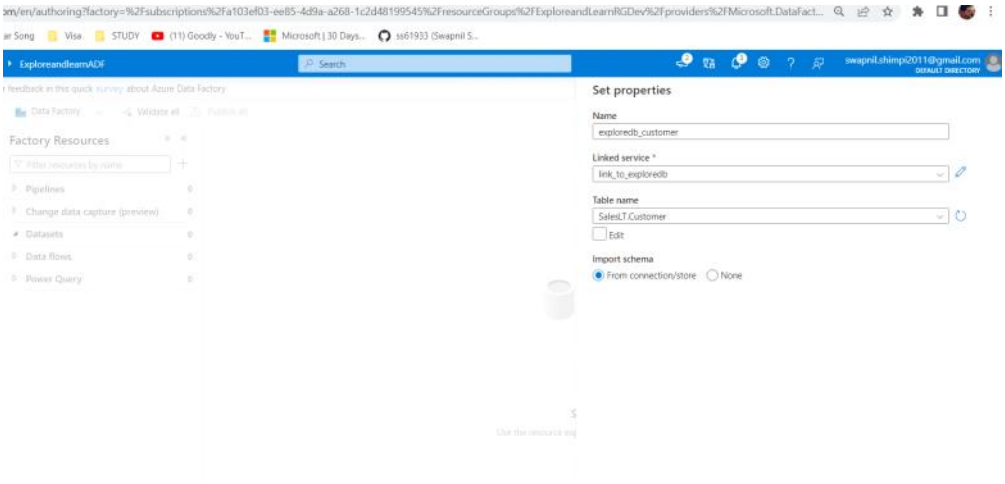
Create a dataset structure:

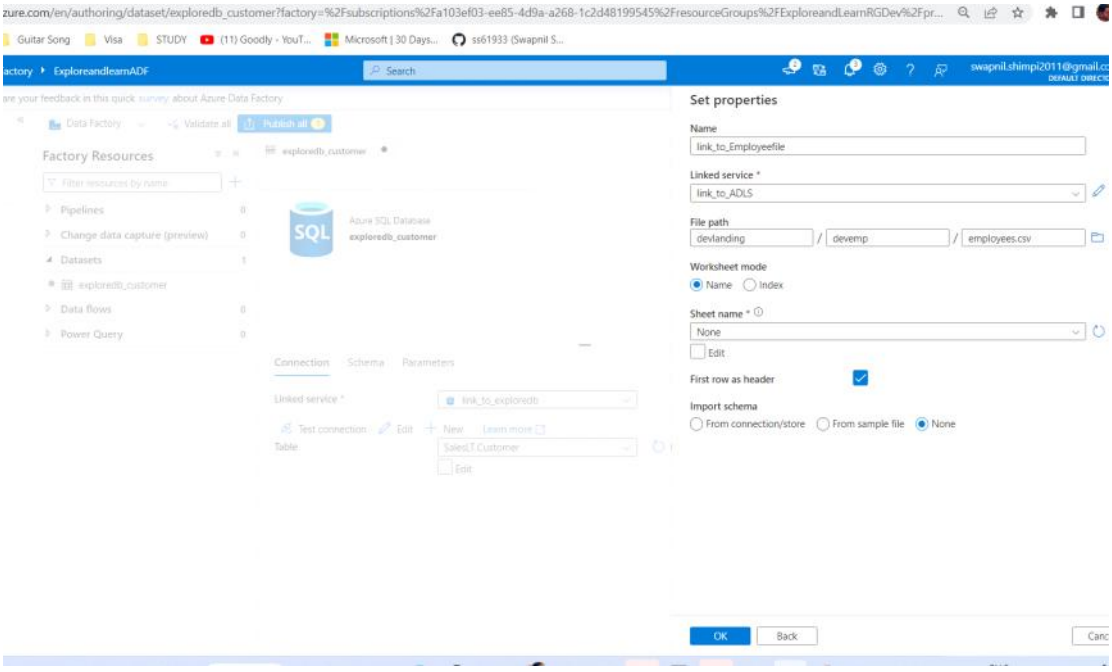
InputDatasets:
1. To read from customer tables from sql database
2. To read from Employees file from ADLS

OutputDatasets:
1. To write a data into CustomerData file

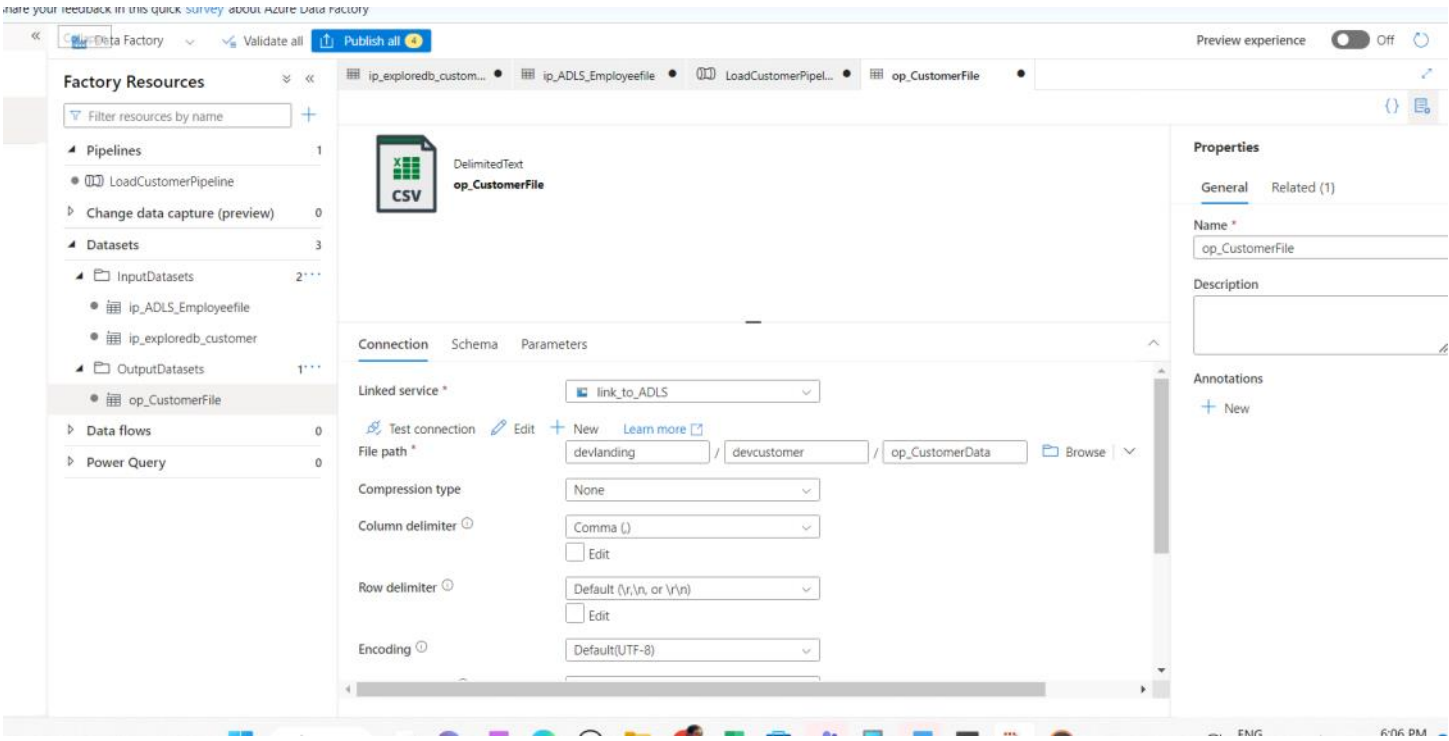
1. Create dataset for connecting to customer table in sql db
2. Click on new dataset and provide below details . Name the dataset as **ip_exploredb_customer**
3. We will consume the link_to_exploredb linked service



1. Creating a dataset to connect to file system
2. Click on new data set ->ADLS gen2->Excel->provide below details. Name dataset as **ip_ADLS_Employeefile**
3. We will consume link_to_adls linked service
4. Select the underlying container and file
5. Set First Row as a Header property



Similarly we can create a dataset for storing output as a csv file with name **op_CustomerFile**


Validate all
Publish all 4
Preview experience
Off
Factory Resources
Filter resources by name
Pipelines 1
LoadCustomerPipeline
Change data capture (preview) 0
Datasets 3
InputDatasets 2
ip_ADLS_Employeefile
ip_exploredb_customer
OutputDatasets 1
op_CustomerFile
Data flows 0
Power Query 0
ip_exploredb_custom...
ip_ADLS_Employeefile
LoadCustomerPipel...
op_CustomerFile
DelimitedText
op_CustomerFile
Connection
Schema
Parameters
Linked service *
link_to_ADLS
Test connection
Edit
New
Learn more
File path *
devlanding
devcustomer
op_CustomerData
Browse
Compression type
None
Column delimiter
Comma (,)
Edit
Row delimiter
Default (\r,\n, or \r\n)
Edit
Encoding
Default(UTF-8)
Properties
General
Related (1)
Name *
op_CustomerFile
Description
Annotations
New

Step3 Create a copy pipeline

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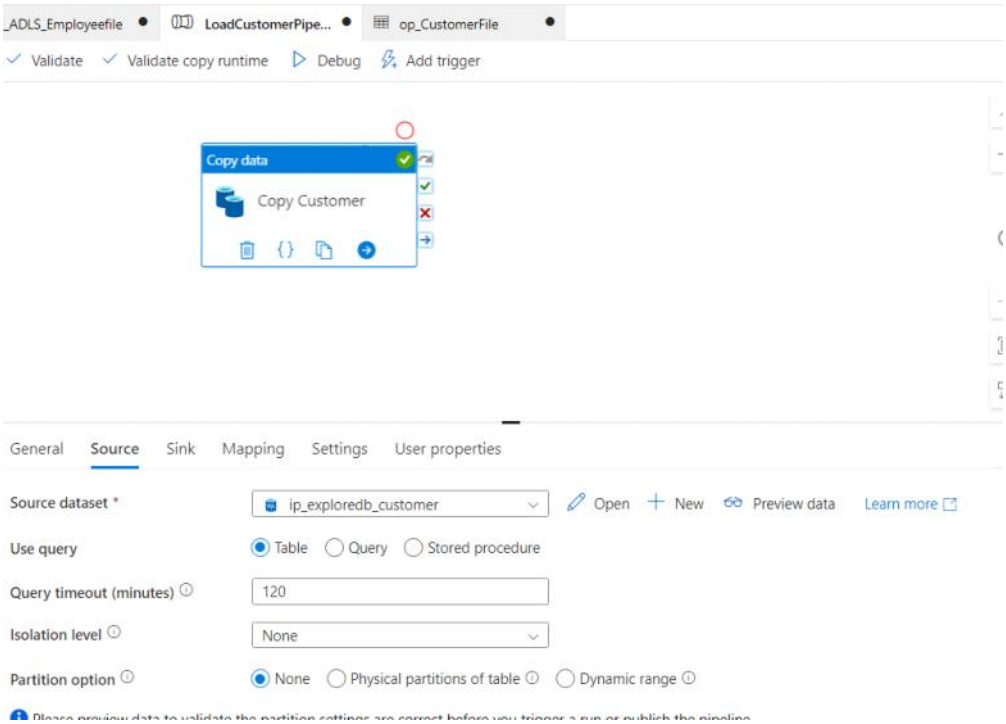
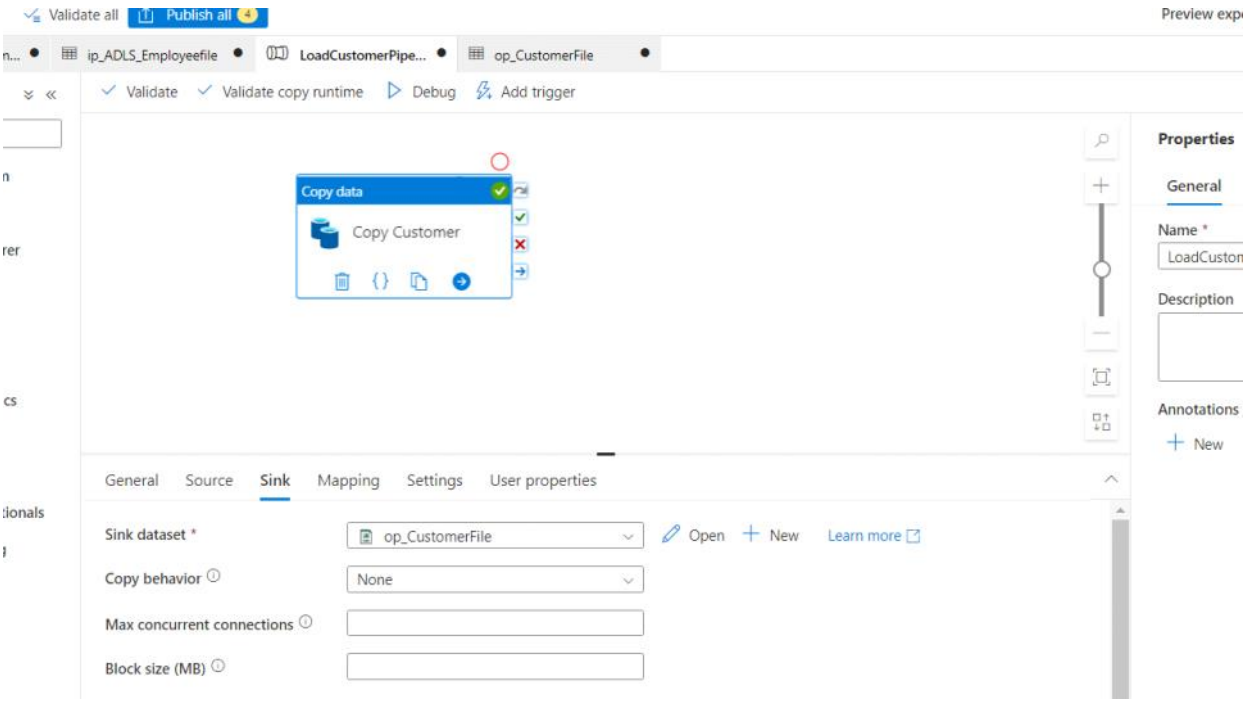
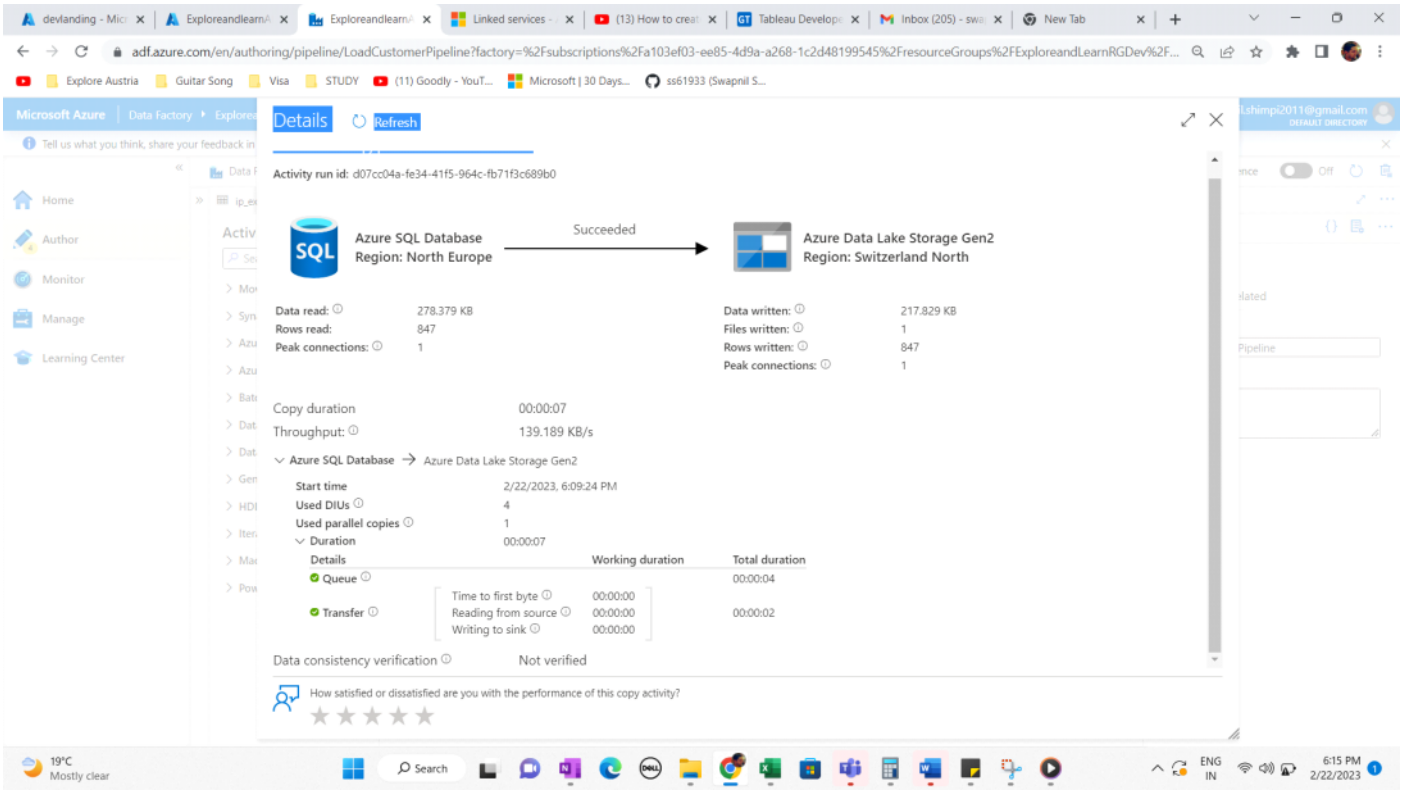
USE CASE :
Read a data from Customer table and load it to CustomerData file

1. Create a pipeline with name **LoadCustomerPipeline**
2. Add a Copy activity
3. Source - Use i**p_exploredb_customer** dataset
4. Sink - Use **op_CustomerFile** dataset

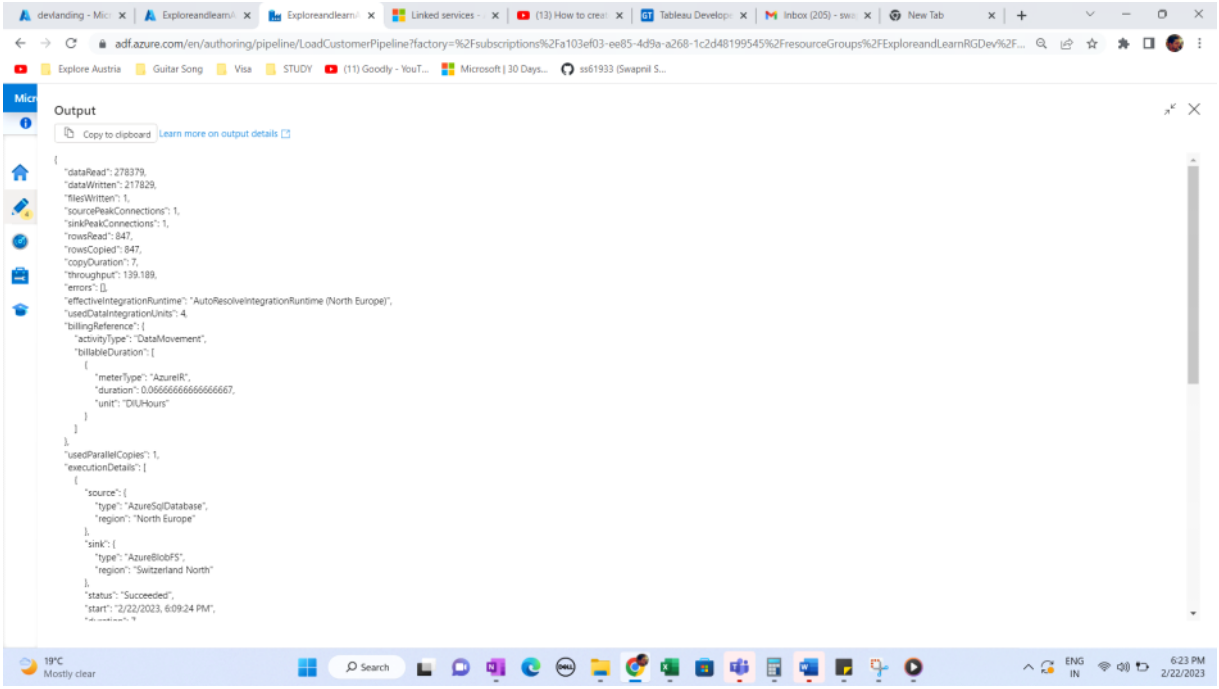




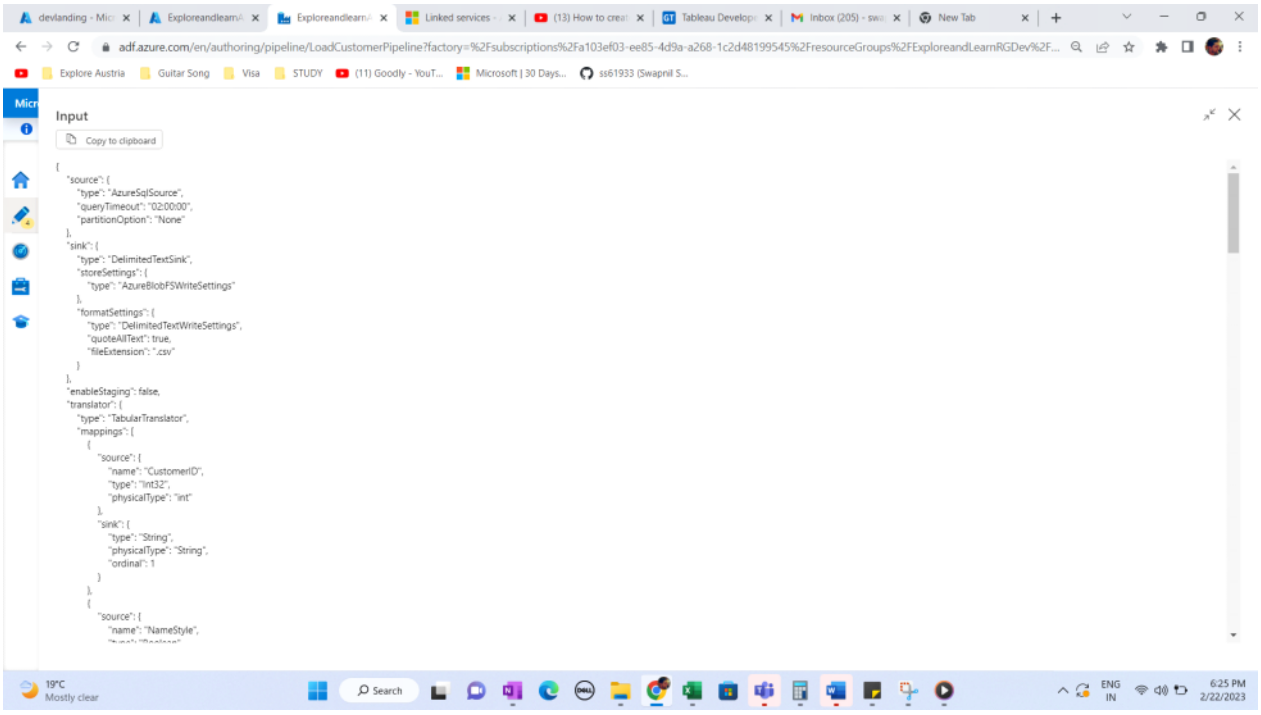
Once setup is completed click on debug. On success view the input , output and logs to debug



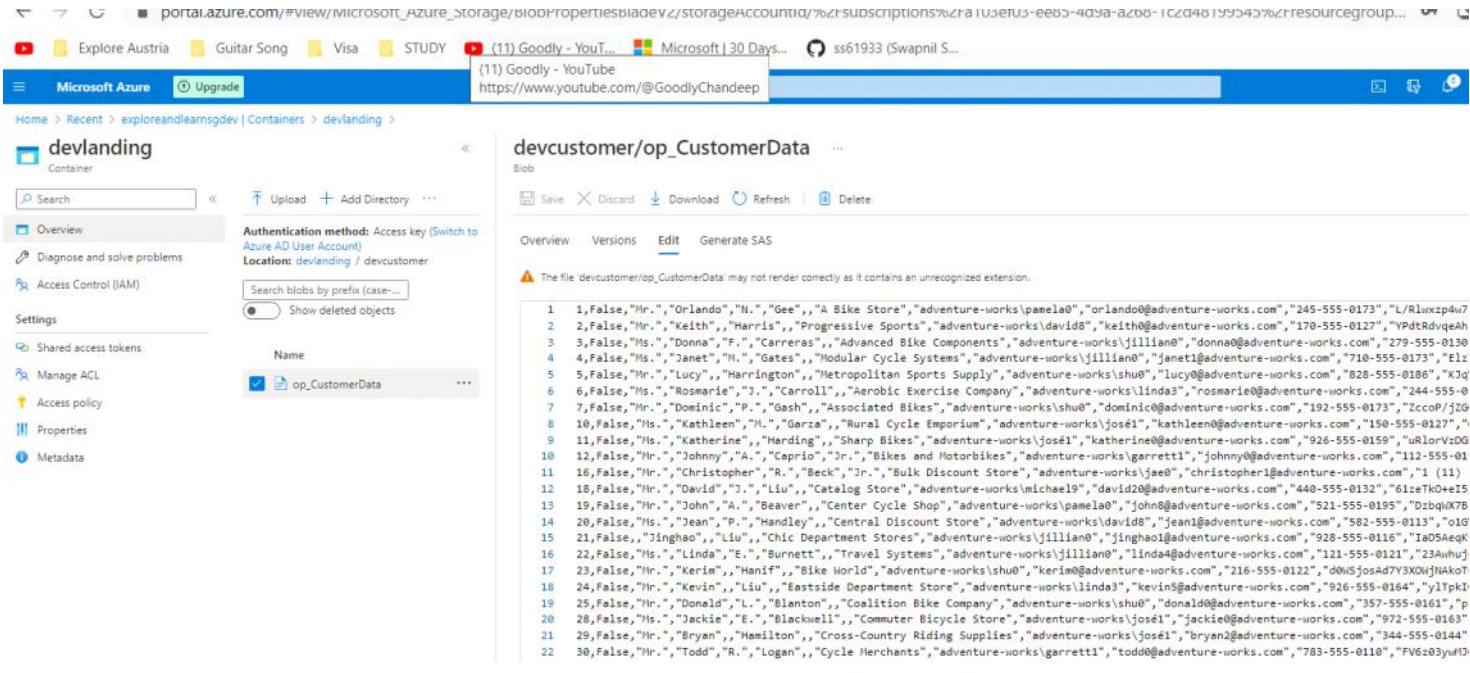
Check the output



Check the input



Navigate to the folder to view the file



Step4 Publish all the changes

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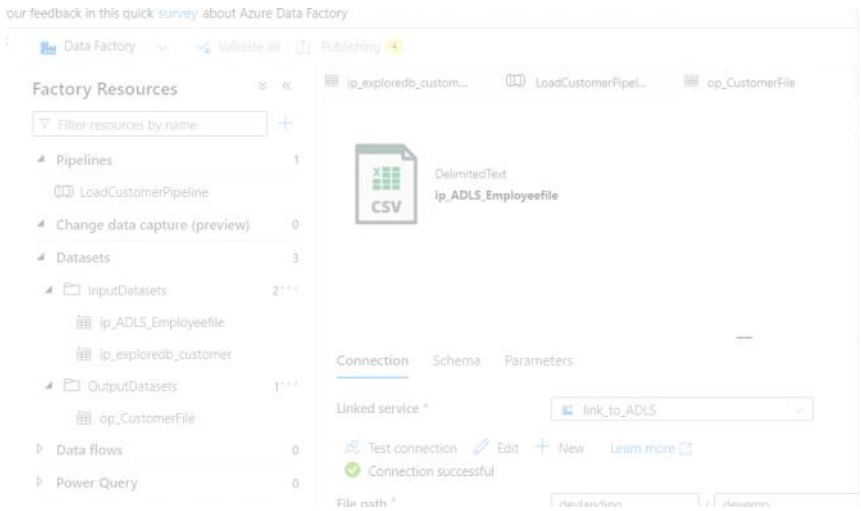

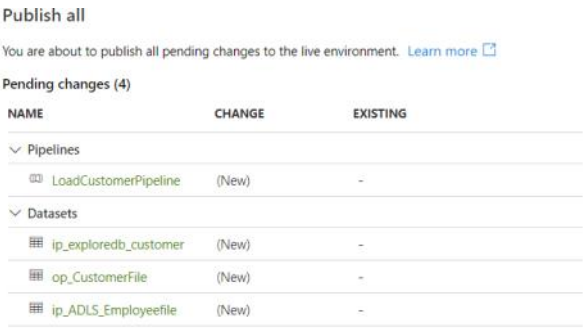

Step5 Setting up GitHub

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Go to git configuration and link it to either Azure devops or link it to your GitHub .
Here I linked it to personal GitHub https://github.com/ss61933/Azure-Data-Factory