

Coding Challenge-5

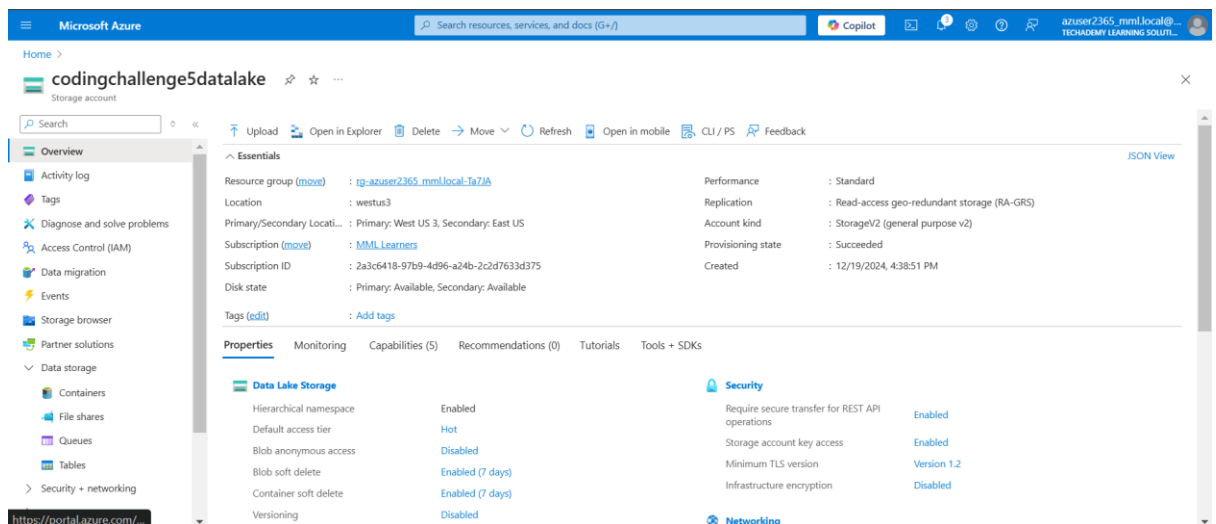
Date: 19/12/2024

Name: Harish E.R

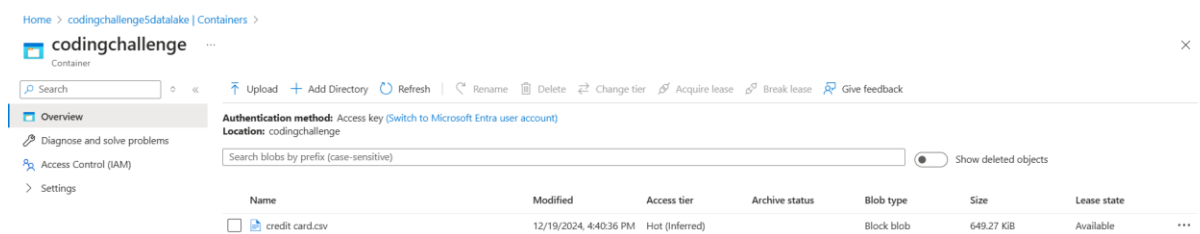
Q) Build an etl pipeline with azure synapse with dataflow running on

Making a dataflow to copy data from data lake storage to dataset:

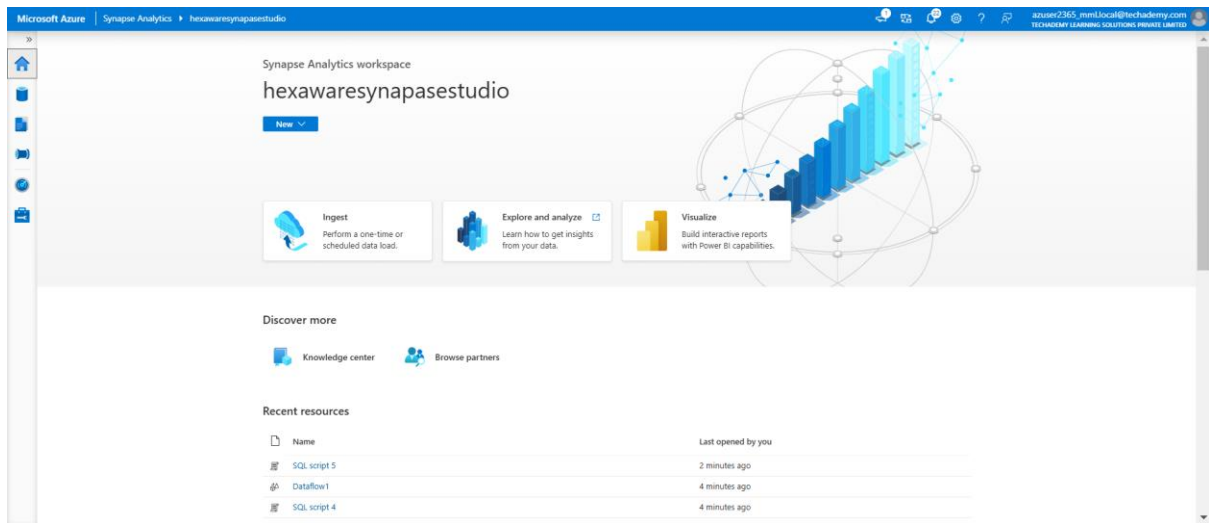
- Create a Datalake storage account:



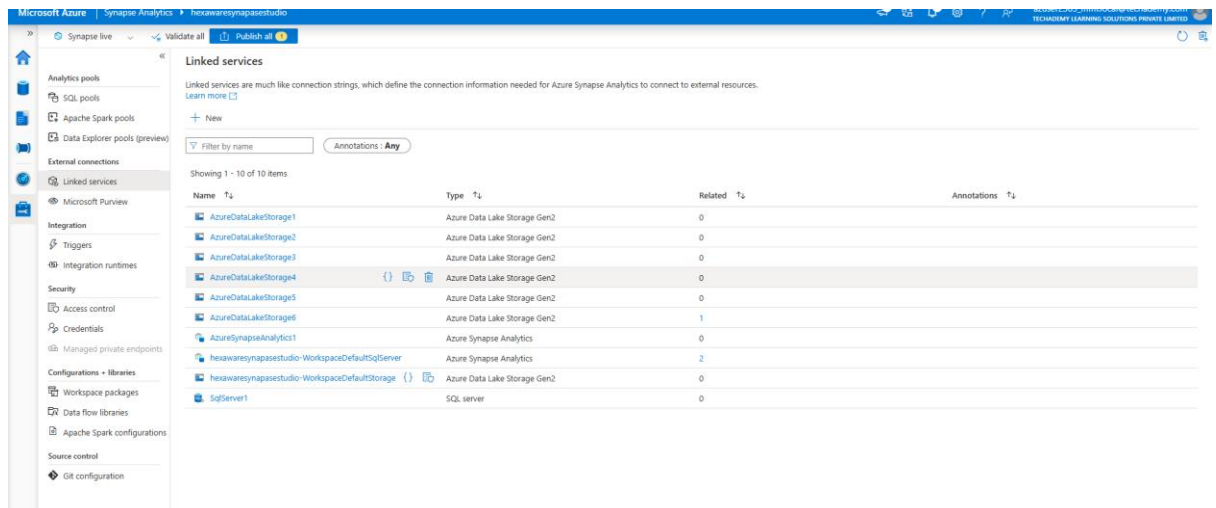
- Upload a CSV file in container:



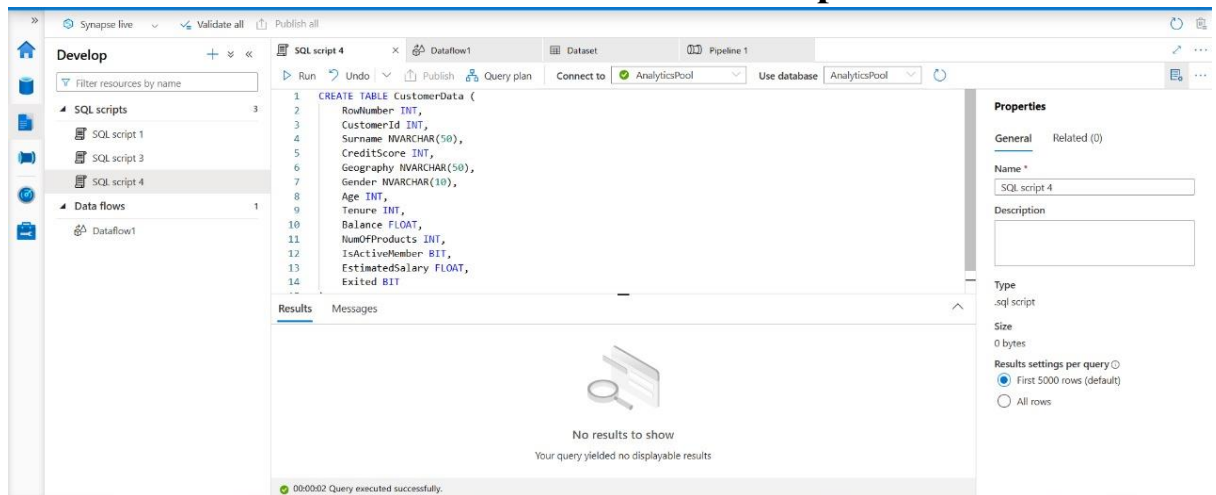
- **Create a Azure Synapse Account:**



- **Link the Synapse with Data lake account:**



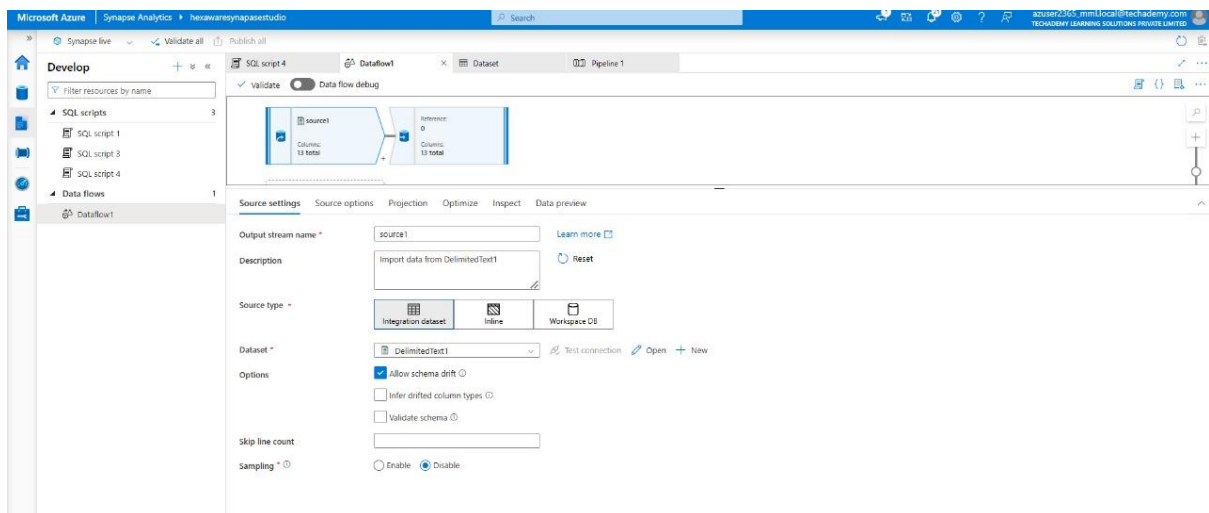
- **Make a new dataset in which data is to be copied:**



- **Make a dataflow:**

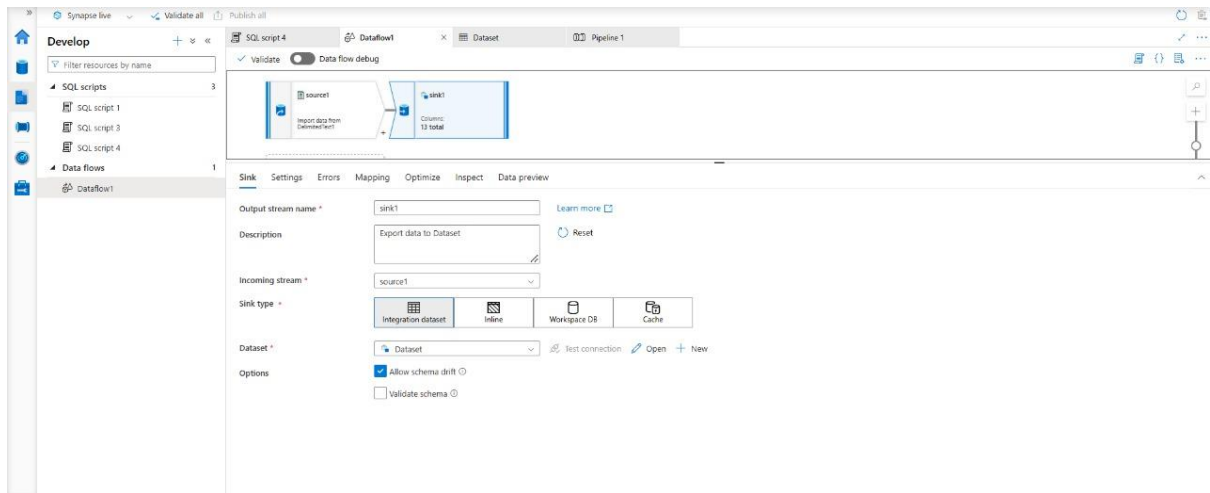
1. Source:

Use the source as the datalake account.

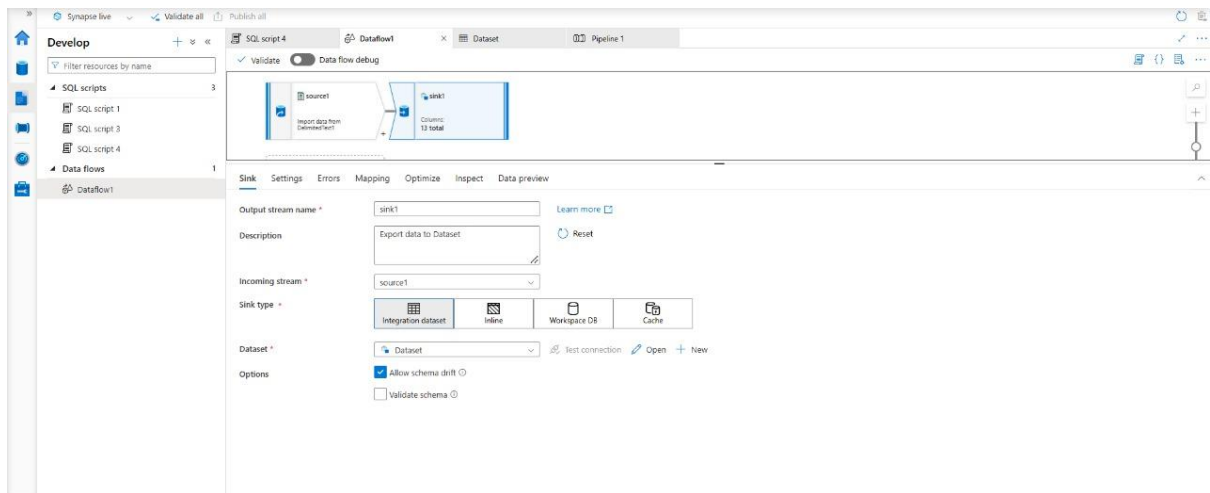


2. Sink:

Sink as the Synapse dataset which was created above.



- **Publish the Dataflow**



- Create ETL pipeline and trigger it:

All pipeline runs > Pipeline 1 - Activity runs

Rerun Cancel Refresh Update pipeline List Gantt

Copy data

Copy data1

Activity runs

Pipeline run ID a76b63f5-8db2-4b81-a5f8-6fc6f281ea0e

All status Monitor in Azure Metrics Export to CSV

Showing 1 - 1 items

Activity name	Activity status	Activity type	Run start	Duration	Integration runtime	User properties	Activity run ID
Copy data1	Succeeded	Copy data	12/19/2024, 5:41:09 PM	22s	AutoResolveIntegration		a431120d-9e67-4898-a39e-8dc03c69

- Check the dataset after running the pipeline:

Microsoft Azure Synapse Analytics

Workspace

SQL database

AnalyticsPool (SQL)

Tables

dbo.CustomerData

dbo.SalesData

External tables

External resources

Views

Programmability

Schemas

Security

codingchallenge5 (SQL)

project4database (SQL)

SQL script 4

```
1 SELECT TOP (100) [RowNumber]
2 , [CustomerId]
3 , [Surname]
4 , [CreditScore]
5 , [Geography]
6 , [Gender]
7 , [Age]
8 , [Tenure]
9 , [Balance]
10 , [NumOfProducts]
11 , [IsActiveMember]
12 , [EstimatedSalary]
13 , [Exited]
14 FROM dbo.CustomerData
```

Results

Messages

View Table Chart Export results

RowNumber	CustomerId	Surname	CreditScore	Geography	Gender	Age	Tenure	Balance	NumOfProducts	IsActiveMember	EstimatedSalary	Exited
6	15574012	Chu	645	Spain	Male	44	6	113755.78	2	False	149756.71	True
6285	15633219	Smith	596	France	Male	33	8	0	1	False	121189.3	True
7	15592531	Bartlett	822	France	Male	50	7	0	2	True	10062.9	False
6293	15713673	T'ien	494	France	Female	33	1	137853	1	True	50273.85	False
2	15647311	Hill	806	Spain	Female	41	1	83807.86	1	True	112542.58	False
6344	15793455	Tien	827	Spain	Female	55	6	0	1	False	91943.34	True

000002 Query executed successfully.

