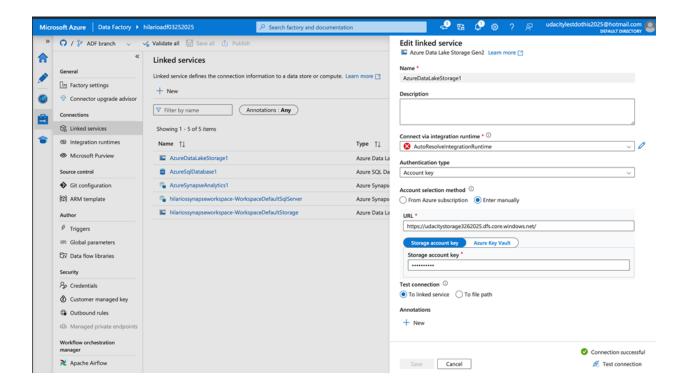
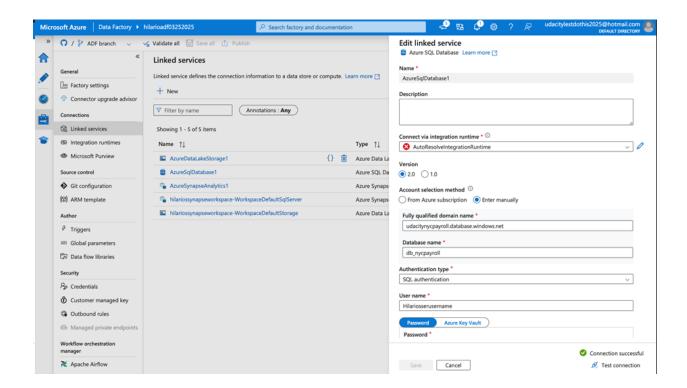
### **Linked Services**

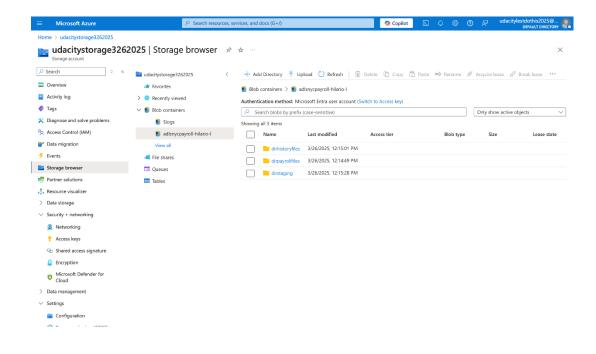
Criteria	Submission Requirements
The learner will be able to create a Linked Service to configure a connection to Azure Data Lake Gen2 containing master data and payroll data	A Linked Service object is present in the data pipeline repository of type "AzureBlobFS" that configures a connection to Azure Data Lake Gen2 containing master data and payroll data.
The learner will be able to create a Linked Service in Azure Data Factory from Azure SQL Database to configure a connection to Azure SQL Database containing master data and payroll data	A Linked Service object is present in the data pipeline repository of type "AzureSQLDatabase" that configures a connection to Azure SQL Database containing master data and payroll data.

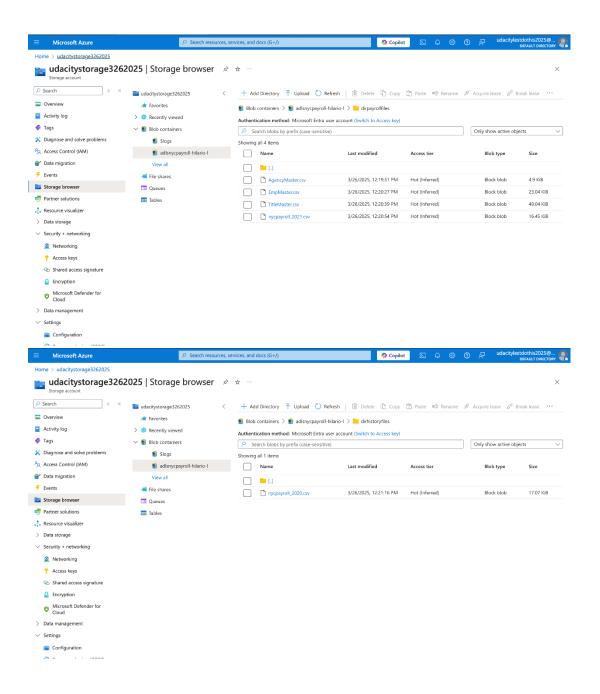


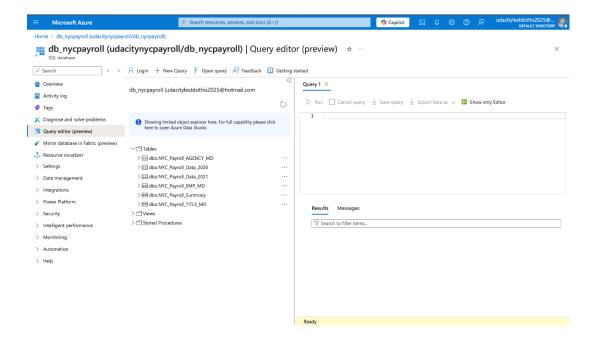


## Datasets

Criteria	Submission Requirements
The learner will be able to create datasets to provide views of master data and payroll data in Azure Data Lake Gen2.	Multiple dataset objects are present in the data pipeline repository of type "AzureBlobFSLocation" with schemas from "AgencyMaster.csv", "TitleMaster.csv", "EmpMaster.csv", "nycpayroll_2020.csv" and "nycpayroll_2021.csv" to provide datasets for data views from Azure Data Lake Gen2.
The learner will be able to create a dataset to provide a view of master data and payroll data in the Azure SQL DB table.	Multiple dataset objects are present in the data pipeline repository of type "AzureSqlTable" with schemas from the NYC Payroll Data, Agency, Employee, Title SQL DB tables SQL DB tables to provide a dataset for a data view.

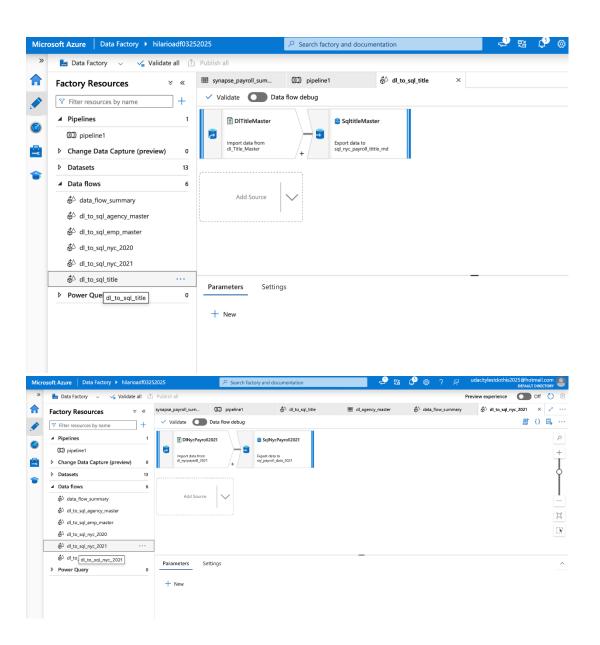


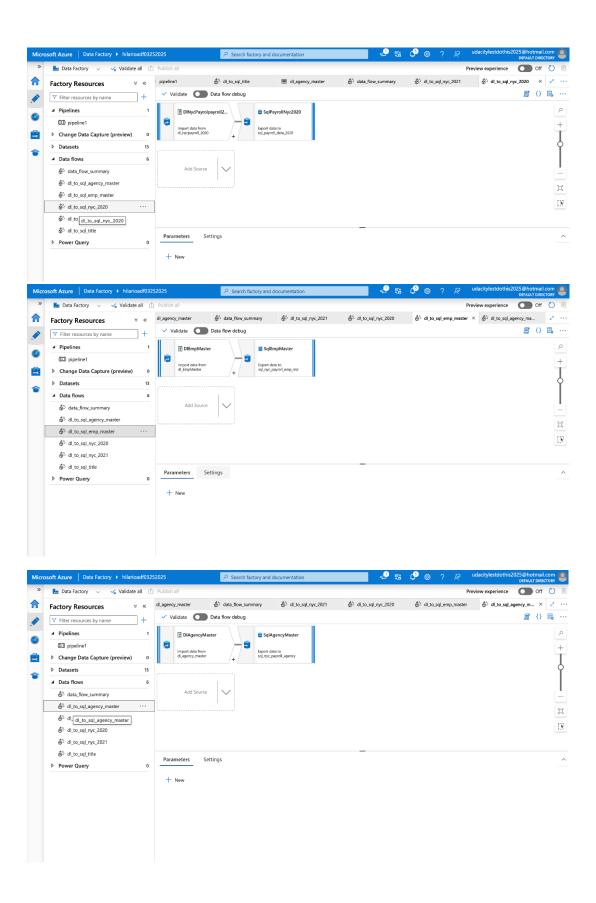


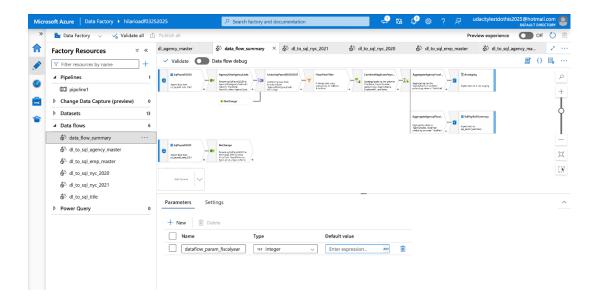


# Data Flows

Criteria	Submission Requirements
The learner will be able to create data flows to aggregate payroll data from Azure SQL DB and NYC Payroll history files o the SQL DB destination table and dirstaging Datalake Gen2 storage	A Dataflow object is present in the data pipeline repository of type "MappingDataFlow" with a union to create a derived aggregated column with the total amount paid to an employee (TotalPaid = RegularGrossPaid + TotalOTPaid + TotalOtherPay). The data sources for this aggregate column should be the data from Azure SQL DB tables
The learner should be able to create data flows to move data from one data storage system to another.	Multiple Dataflow objects are present in the data pipeline repository of type "MappingDataFlow". Data flows should map data in datasets from Azure Data Lake Gen2 to Azure SQL DB. Data flows should map data from Azure SQL DB and Data Lake Gen2 to move it to the Data Lake staging directory and SQL DB destination table.





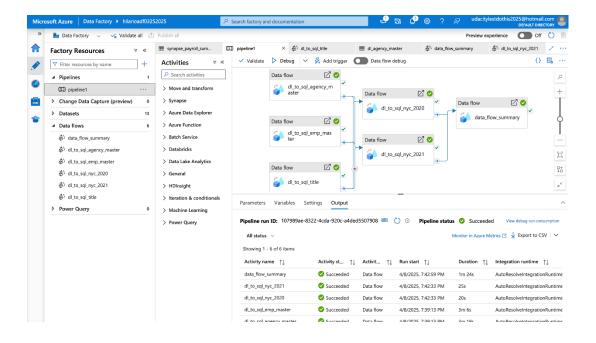


## Pipeline

Criteria	Submission Requirements
The student will be able to create a data pipeline containing Dataflow activities.	Multiple pipeline objects are present in the data pipeline repository with activities of type "ExecuteDataFlow" in the pipeline directory which contain Dataflow objects.
The learner should be able to trigger a pipeline and execute the Dataflows in it.	A screenshot is present showing a successful pipeline execution in Azure Data Factory

# **Data Verification**

Criteria	Submission Requirements
The student will be able to verify the final data after pipeline run in Datalake Gen2 storage, SQL DB table and Synapse table	Screenshots are present to show the data is saved in Gen2 storage, and query on SQL DB table and Synapse external table returns results.



### **Data Verification**

Criteria	Submission Requirements
The student will be able to verify the final data after pipeline run in Datalake Gen2 storage, SQL DB table and Synapse table	Screenshots are present to show the data is saved in Gen2 storage, and query on SQL DB table and Synapse external table returns results.

