

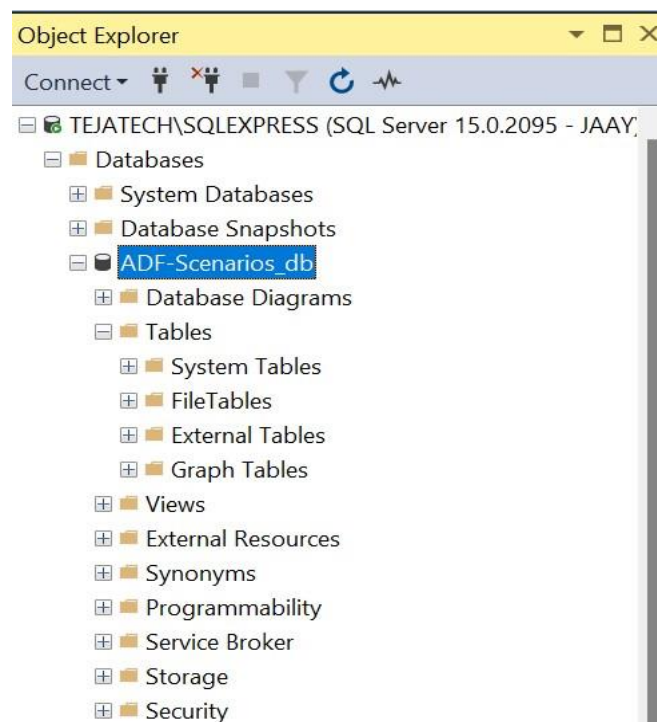
ADF-Copy Activity (ADLS to on prem SQL SSMS)

Problem Statement:

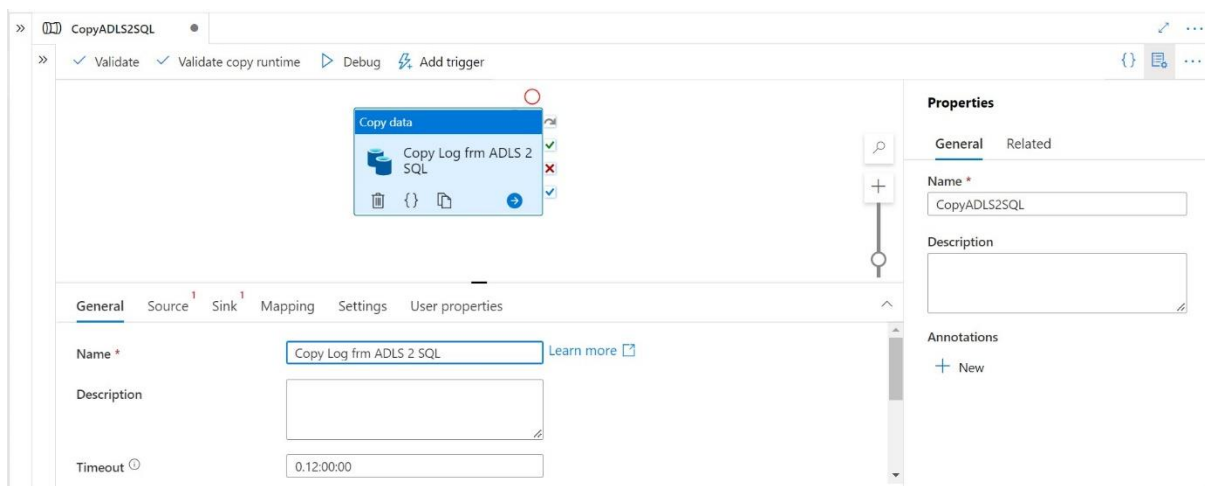
Copy data from Azure Data Lake Storage gen 2 to on premise MS SQL server 2019.

Solution:

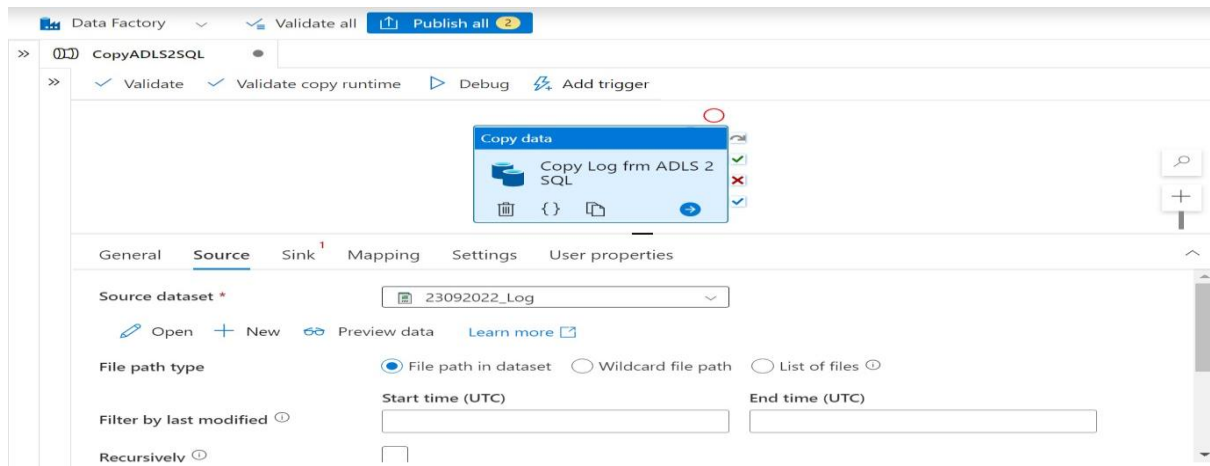
MS SQL SSMS Data base: SQL server authentication



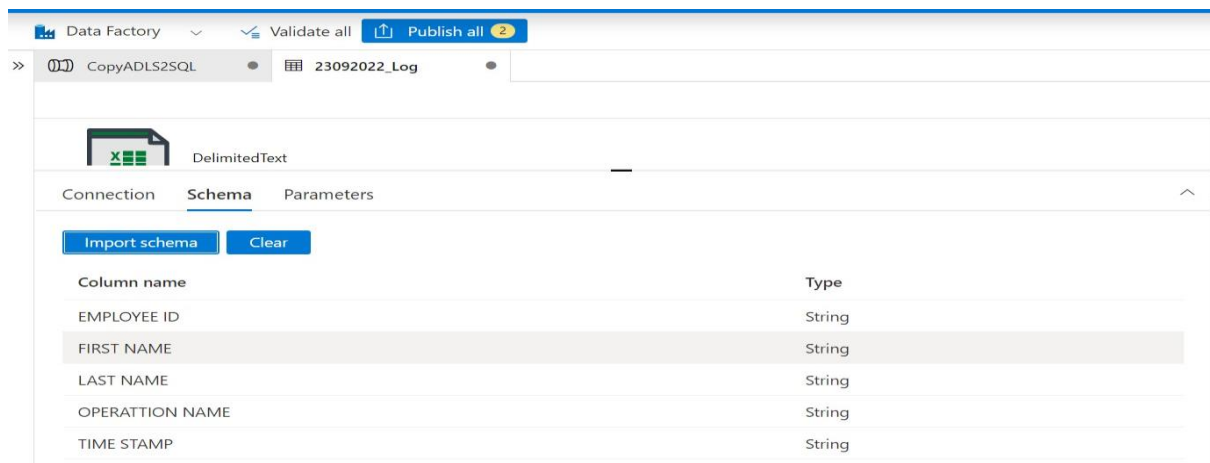
ADF Copy Data Pipeline – General



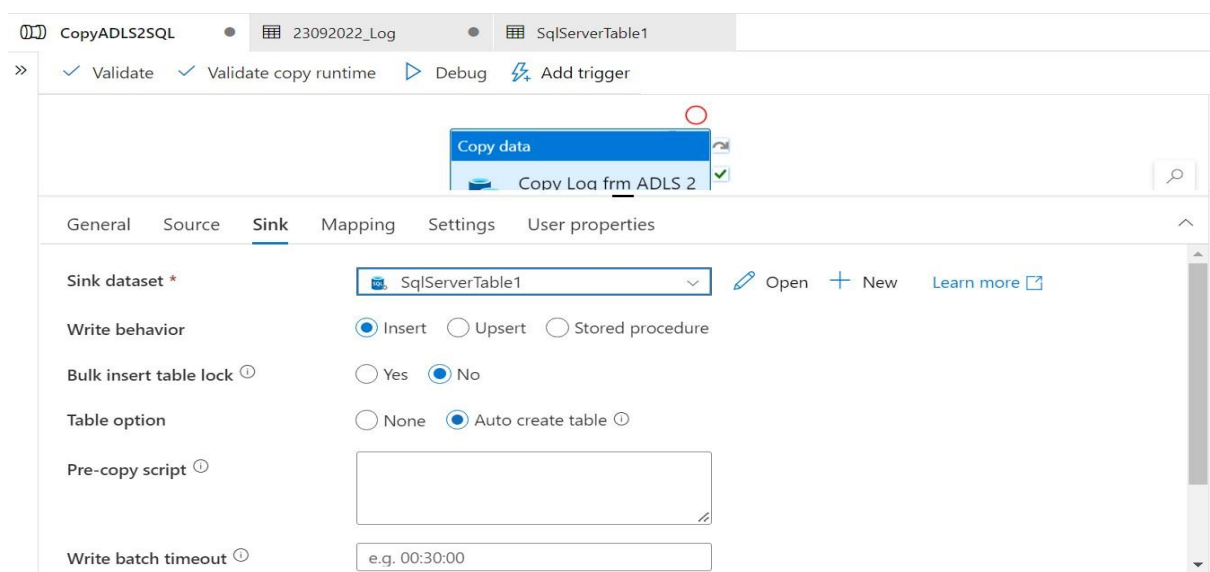
ADF Copy Data Pipeline – Source



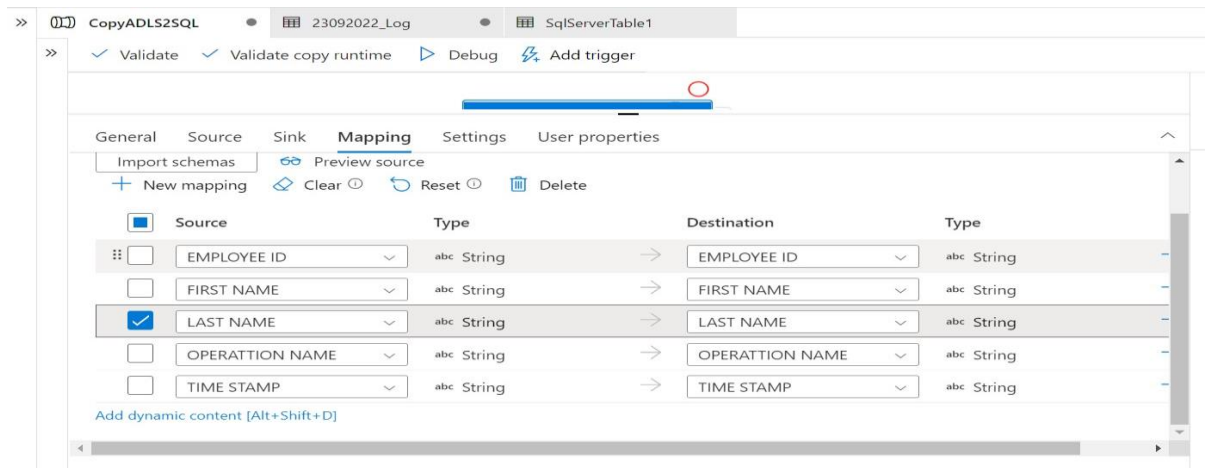
ADF Copy Data Pipeline – Source data set schema



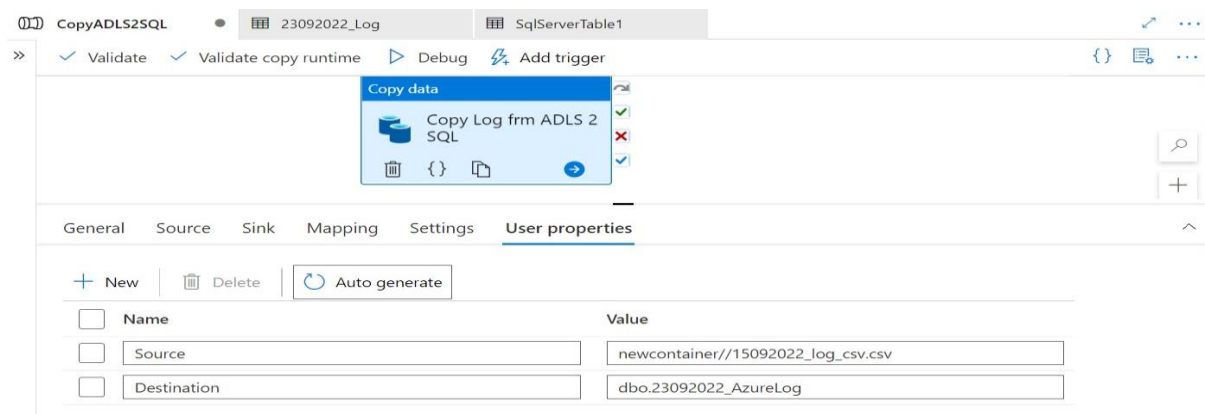
ADF Copy Data Pipeline – Sink



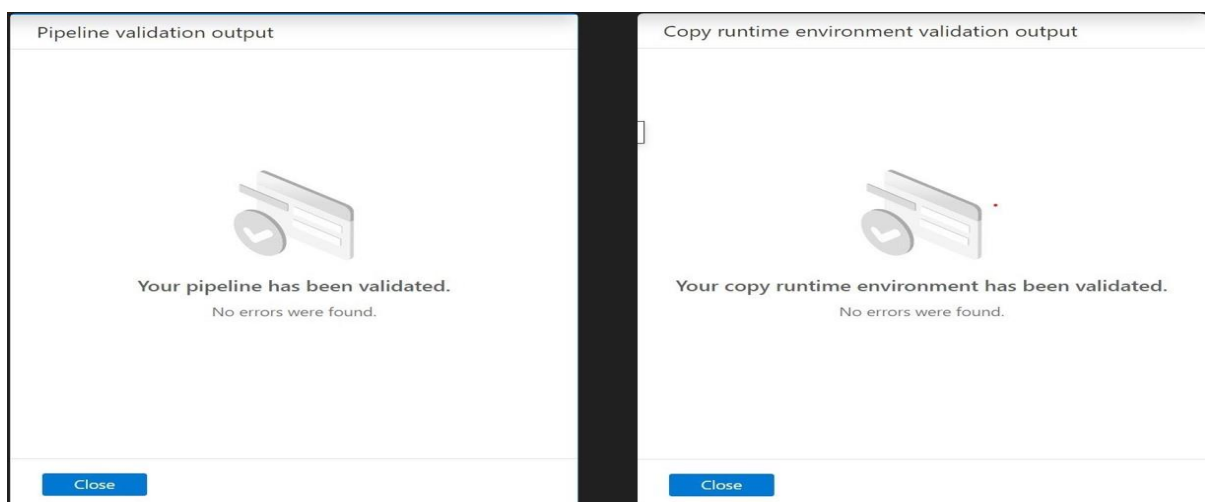
ADF Copy Data Pipeline – Mapping



ADF Copy Data Pipeline - Properties



ADF Copy Activity Pipeline & Runtime validations



ADF Copy Activity Pipeline - Publish

Publish all

You are about to publish all pending changes to the live environment. [Learn more](#)

Pending changes (2)

| NAME | CHANGE | EXISTING |
|--|--------|----------|
| ✓ Pipelines | | |
|  CopyADLS2SQL | (New) | - |
| ✓ Datasets | | |
|  23092022_Log | (New) | - |

Publish

Cancel

ADF Copy Data Activity Pipeline – Preview Source

Preview data

Linked service: ADLS gen2 ADF Scenarios

Object: 15092022_log_csv.csv

| | EMPLOYEE ID | FIRST NAME | LAST NAME | OPERATTION NAME | TIME STAMP |
|---|-------------|------------|-----------|---------------------------------|------------------|
| 1 | 1 | Rosy | Ava | List Storage Account Keys | 26-06-2021 14:24 |
| 2 | 2 | Mary | Amelia | Delete SqlPools | 25-06-2021 14:22 |
| 3 | 3 | Jack | Haland | Pause SQL Analytics pools. | 25-06-2021 14:22 |
| 4 | 4 | Raees | khan | Pause SQL Analytics pools. | 23-06-2021 07:23 |
| 5 | 5 | Ruby | Jasline | List Storage Account Keys | 20-06-2021 07:23 |
| 6 | 6 | Romeo | Lukaku | Pause a Datawarehouse database. | 19-06-2021 07:23 |
| 7 | 7 | Mathew | Hayden | Create Pipeline Run | 17-06-2021 07:23 |
| 8 | 8 | Mark | Alexander | Create Pipeline Run | 15-06-2021 14:22 |
| 9 | 9 | Merlin | Olivia | Create or Update any Pipeline. | 13-06-2021 07:23 |

ADF Copy Data Activity – Pipeline Run Trigger

CopyADLS2SQL

List Gantt

Rerun Rerun from activity Rerun from failed activity Refresh Update pipeline

Copy data

Activity runs

Pipeline run ID d2b53c7d-15b7-4112-bd93-62488f5bd9c4

All status

Showing 1 - 1 items

| Activity name | Activity type | Run start | Duration | Status | Error |
|-------------------------|---------------|--------------------------|----------|-----------|-------|
| Copy Log frm ADLS 2 SQL | Copy data | Sep 23, 2022, 4:59:22 pm | 00:00:25 | Succeeded | |

MS SQL Server Data Base after running pipeline

Object Explorer

Connect

TEJATECH\SQLEXPRESS (SQL Server 15.0.2095 - JAAV)

Databases

System Databases

Database Snapshots

ADF-Scenarios_db

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.23092022_AzureLog

Columns

EMPLOYEE ID (nvarchar(max), null)

FIRST NAME (nvarchar(max), null)

OPERATION NAME (nvarchar(max), null)

TIME STAMP (nvarchar(max), null)

Keys

Constraints

Triggers

Indexes

Statistics

Views

SQLQuery5.sql - TEJ...rios_db (JAAV (61))

SELECT * FROM [dbo].[23092022_AzureLog]

100 %

Results Messages

| | EMPLOYEE ID | FIRST NAME | OPERATION NAME | TIME STAMP |
|----|-------------|------------|-----------------------------------|------------------|
| 1 | 1 | Rosy | List Storage Account Keys | 26-06-2021 14:24 |
| 2 | 2 | Mary | Delete SqlPools | 25-06-2021 14:22 |
| 3 | 3 | Jack | Pause SQL Analytics pools. | 25-06-2021 14:22 |
| 4 | 4 | Raees | Pause SQL Analytics pools. | 23-06-2021 07:23 |
| 5 | 5 | Ruby | List Storage Account Keys | 20-06-2021 07:23 |
| 6 | 6 | Romeo | Pause a Datawarehouse database. | 19-06-2021 07:23 |
| 7 | 7 | Mathew | Create Pipeline Run | 17-06-2021 07:23 |
| 8 | 8 | Mark | Create Pipeline Run | 15-06-2021 14:22 |
| 9 | 9 | Merlin | Create or Update any Pipeline. | 13-06-2021 07:23 |
| 10 | 10 | David | Create or Update any Pipeline. | 12-06-2021 07:23 |
| 11 | 11 | William | Validate Deployment | 10-06-2021 07:23 |
| 12 | 12 | Mitchel | Update SQL server firewall rules | 06-06-2021 07:23 |
| 13 | 13 | Mike | 'auditIfNotExists' Policy action. | 04-06-2021 07:23 |
| 14 | 14 | Rachie | 'auditIfNotExists' Policy action. | 02-06-2021 07:23 |
| 15 | 15 | Shane | Resume a Datawarehouse datab... | 01-06-2021 07:23 |
| 16 | NULL | NULL | NULL | NULL |