

Q5.1.

Pipeline Name:

Name *	<input type="text" value="copy_from_adls_to_sql"/>	Learn more
Description	<div></div>	
Activity state ⓘ	<input checked="" type="radio"/> Activated <input type="radio"/> Deactivated	
Timeout ⓘ	<input type="text" value="0.12:00:00"/>	
Retry ⓘ	<input type="text" value="0"/>	
Retry interval (sec) ⓘ	<input type="text" value="30"/>	
Secure output ⓘ	<input type="checkbox"/>	
Secure input ⓘ	<input type="checkbox"/>	

Source Dataset:

Source dataset *	<input type="text" value="ADLS_to_SQL_source"/>	Open New Preview data Learn more
File path type	<input checked="" type="radio"/> File path in dataset <input type="radio"/> Wildcard file path <input type="radio"/> List of files ⓘ	
Filter by last modified ⓘ	Start time (UTC) <input type="text"/>	End time (UTC) <input type="text"/>
Recursively ⓘ	<input checked="" type="checkbox"/>	
Enable partitions discovery ⓘ	<input type="checkbox"/>	
Max concurrent connections ⓘ	<input type="text"/>	
Skip line count	<input type="text"/>	
Additional columns ⓘ	+ New	

Linked service *	<input type="text" value="ADLS_to_SQL_Source_LS"/>	Test connection Edit New Learn more
File path	<input type="text" value="source"/> / <input type="text" value="Directory"/> / <input type="text" value="DimCustomer.csv"/>	Browse Preview data Detect format
Compression type	<input type="text" value="No compression"/>	
Column delimiter ⓘ	<input type="text" value="Comma (,)"/>	
Row delimiter ⓘ	<input type="text" value="Default (\r\n, or \n)"/>	
Encoding ⓘ	<input type="text" value="Default(UTF-8)"/>	
Quote character ⓘ	<input)"="" type="text" value="Double quote ("/>	
Escape character ⓘ	<input type="text" value="Backslash (\)"/>	
First row as header ⓘ	<input checked="" type="checkbox"/>	
Null value ⓘ	<input type="text"/>	

Sink Dataset:

Sink dataset *

ADLS_to_SQL_target

Open

New

Learn more

Write behavior

Insert

Upsert

Stored procedure

Bulk insert table lock ⓘ

Yes

No

Table option

Use existing

Auto create table ⓘ

Pre-copy script ⓘ

TRUNCATE TABLE dbo.dim_customer

Write batch timeout ⓘ

e.g. 00:30:00

Write batch size ⓘ

Max concurrent connections ⓘ

Linked service *

ADLS_to_SQL_target

Test connection

Edit

New

Learn more

Table

schema name

dim_customer

Preview data

Enter manually

Pipeline Runs:

<input type="checkbox"/>	pipeline_ADLS_to_SQL	1/2/2025, 4:29:56 PM	1/2/2025, 4:30:20 PM	24s	Manual trigger	✔ Succeeded
<input type="checkbox"/>	pipeline_ADLS_to_SQL	1/2/2025, 4:28:52 PM	1/2/2025, 4:29:11 PM	19s	Manual trigger	✔ Succeeded
<input type="checkbox"/>	pipeline_ADLS_to_SQL	1/2/2025, 4:25:40 PM	1/2/2025, 4:26:00 PM	20s	Manual trigger	✔ Succeeded

Table in Storage Container:

source

Container

Search

Upload

Add Directory

Refresh

Rename

Delete

Change tier

Acquire lease

Break lease

Give feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

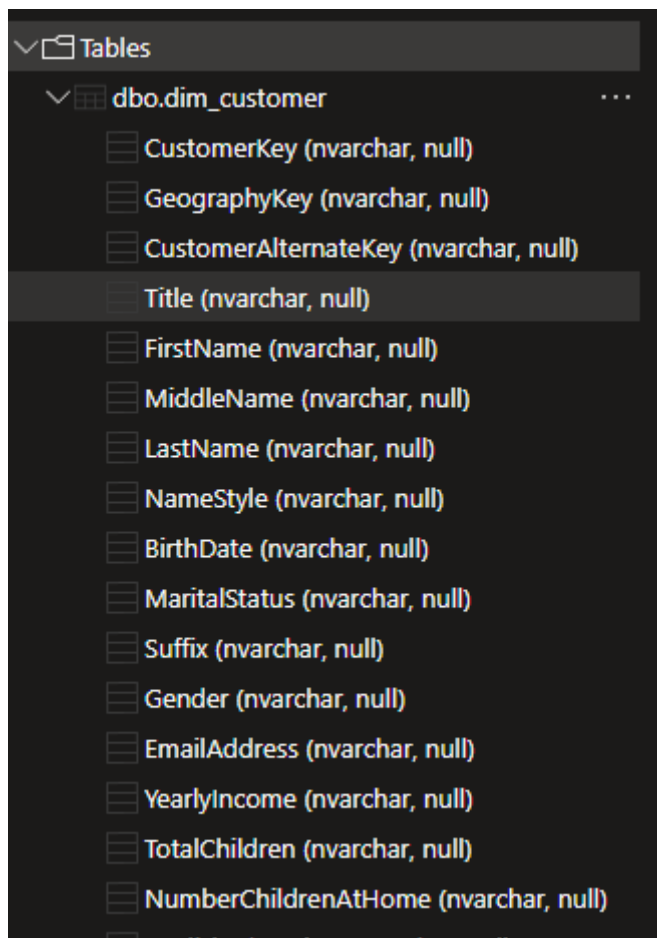
Authentication method: Access key (Switch to Microsoft Entra user account)

Location: source

Search blobs by prefix (case-sensitive)

Name	Modified	Access tier	Archive status
<input type="checkbox"/> DimCustomer.csv	12/19/2024, 4:00:12 PM	Hot (Inferred)	

Table Copied in SQL Database:

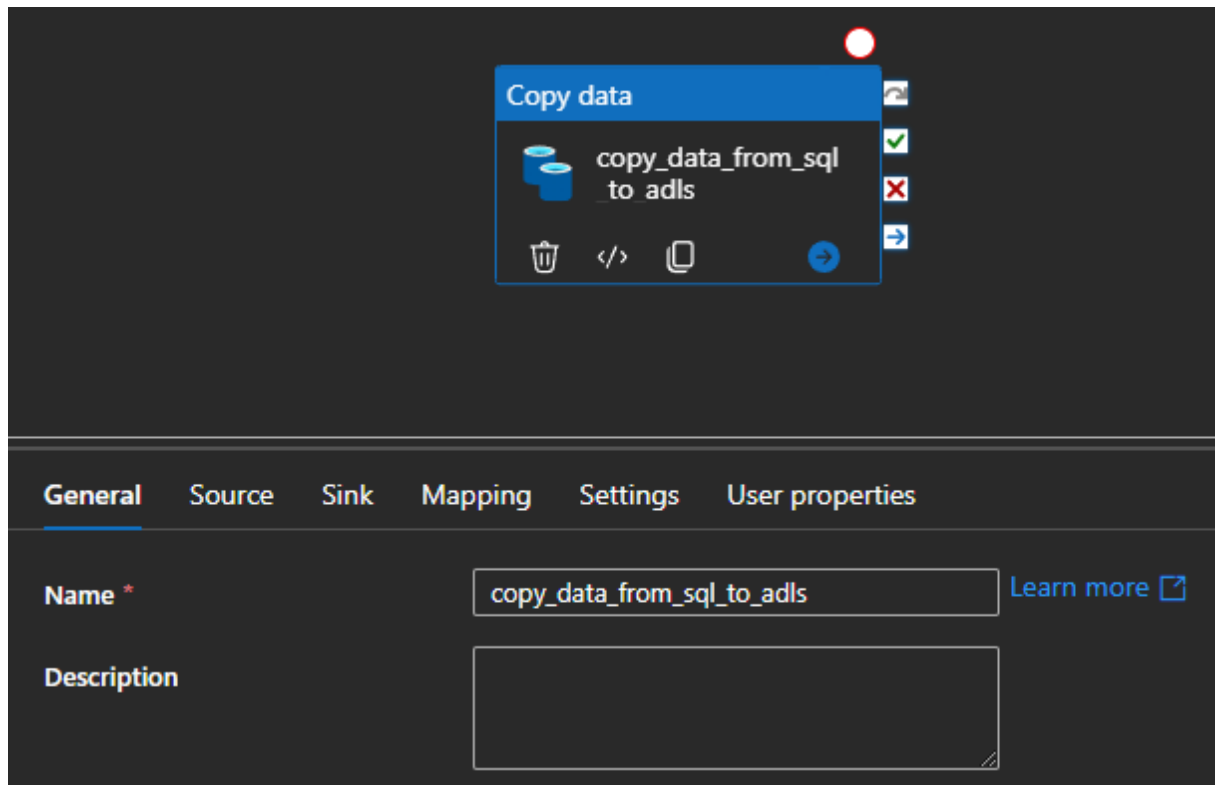


The screenshot shows a SQL Server Enterprise Manager interface. Under the 'Tables' folder, the table 'dbo.dim_customer' is expanded. The table structure is listed with columns and their data types, all of which are 'nvarchar, null'. The 'Title' column is currently selected and highlighted.

Tables	
▼ dbo.dim_customer ...	
CustomerKey	(nvarchar, null)
GeographyKey	(nvarchar, null)
CustomerAlternateKey	(nvarchar, null)
Title	(nvarchar, null)
FirstName	(nvarchar, null)
MiddleName	(nvarchar, null)
LastName	(nvarchar, null)
NameStyle	(nvarchar, null)
BirthDate	(nvarchar, null)
MaritalStatus	(nvarchar, null)
Suffix	(nvarchar, null)
Gender	(nvarchar, null)
EmailAddress	(nvarchar, null)
YearlyIncome	(nvarchar, null)
TotalChildren	(nvarchar, null)
NumberChildrenAtHome	(nvarchar, null)

Q5.2.

Pipeline Name:



Copy data

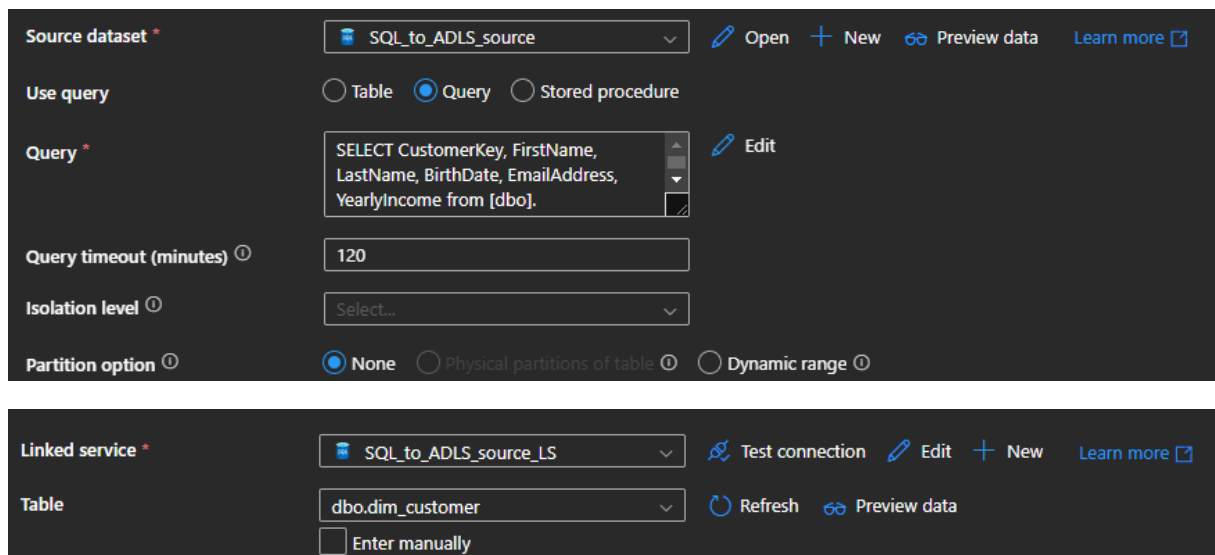
copy_data_from_sql_to_adls

General Source Sink Mapping Settings User properties

Name * copy_data_from_sql_to_adls [Learn more](#)

Description

Source Dataset:



Source dataset * SQL_to_ADLS_source [Open](#) [New](#) [Preview data](#) [Learn more](#)

Use query ☐ Table ☒ Query ☐ Stored procedure

Query * SELECT CustomerKey, FirstName, LastName, BirthDate, EmailAddress, YearlyIncome from [dbo]. [Edit](#)

Query timeout (minutes) ① 120

Isolation level ① Select...

Partition option ① ☒ None ☐ Physical partitions of table ① ☐ Dynamic range ①

Linked service * SQL_to_ADLS_source_LS [Test connection](#) [Edit](#) [New](#) [Learn more](#)

Table dbo.dim_customer [Refresh](#) [Preview data](#)

☒ Enter manually

SQL Query for incremental Load:

```
SELECT CustomerKey, FirstName, LastName, BirthDate, EmailAddress, YearlyIncome
FROM [dbo].[dim_customer]
WHERE [YearlyIncome] > 60000
```

Sink Dataset

Sink dataset * SQL_to_ADLS_target Open

Copy behavior Select...

Max concurrent connections

Block size (MB)

Linked service * SQL_to_ADLS_target_LS Test connection Edit New Learn more

File path target / Directory / DimCustomer.csv Browse

Compression type No compression

Column delimiter Comma (,)

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

Encoding Default(UTF-8)

Quote character Double quote (")

Escape character Backslash (\)

First row as header ☒

Null value

Pipeline Runs:

<input type="checkbox"/>	pipeline_SQL_to_ADLS	1/2/2025, 4:49:51 PM	1/2/2025, 4:50:09 PM	18s	Manual trigger	✓ Succeeded	Original
<input type="checkbox"/>	pipeline_SQL_to_ADLS	1/2/2025, 4:43:57 PM	1/2/2025, 4:44:11 PM	14s	Manual trigger	✓ Succeeded	Original

Table in SQL Database:

database_daniel (daniel)

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

Tables
dbo.dim_customer
Views
Stored Procedures

Query 1

Run Cancel query Save query Export data as Show only Editor Open Copilot

```
1 SELECT CustomerKey, FirstName, LastName, BirthDate, EmailAddress, YearlyIncome from [dbo].[dim_customer]
2 WHERE [YearlyIncome] > 60000
```

Results Messages

Search to filter items...

CustomerKey	FirstName	LastName	BirthDate	EmailAddress	YearlyIncome
11000	Jon	Yang	10/6/1971	jon24@adventure-works.com	90000
11003	Christy	Zhu	8/14/1973	christy12@adventure-works.c...	70000
11004	Elizabeth	Johnson	8/5/1979	elizabeth5@adventure-works...	80000
11005	Julio	Ruiz	8/1/1976	julio1@adventure-works.com	70000
11006	Janet	Alvarez	12/2/1976	janet19@adventure-works.com	70000

Table in Target Storage Container

Upload

Add Directory

Refresh

|

Rename

Delete

Change tier

Acquire lease

Break lease

Give feedback

Authentication method: Access key [\(Switch to Microsoft Entra user account\)](#)

Location: target

Search blobs by prefix (case-sensitive)

Name	Modified	Access tier	A
<div><div></div><div>DimCustomer.csv</div></div>	1/2/2025, 4:50:07 PM	Hot (Inferred)	