

Bootcamp Project 1 - Data Pipeline for Customer Account Analysis

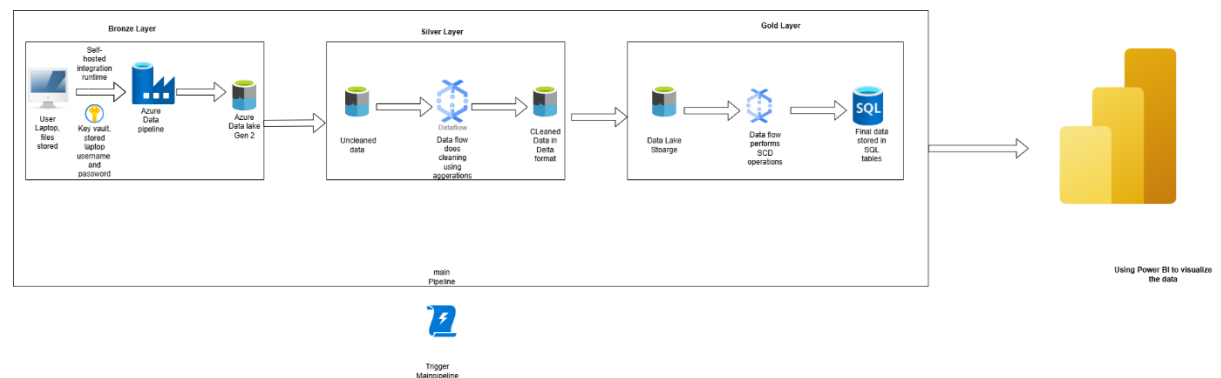
1. Objective:

The project aims to design and implement a robust data pipeline for processing customer account data. This includes copying data from a backend team's storage account, performing necessary transformations using ADF and upserting (inserting or updating) data from a file stored in Azure Data Lake Storage ADLS GOLD Storage into SQL database table. The pipeline aims to ensure efficient, accurate, and scalable data processing to support downstream analytics and reporting needs.

2. Tools Required:

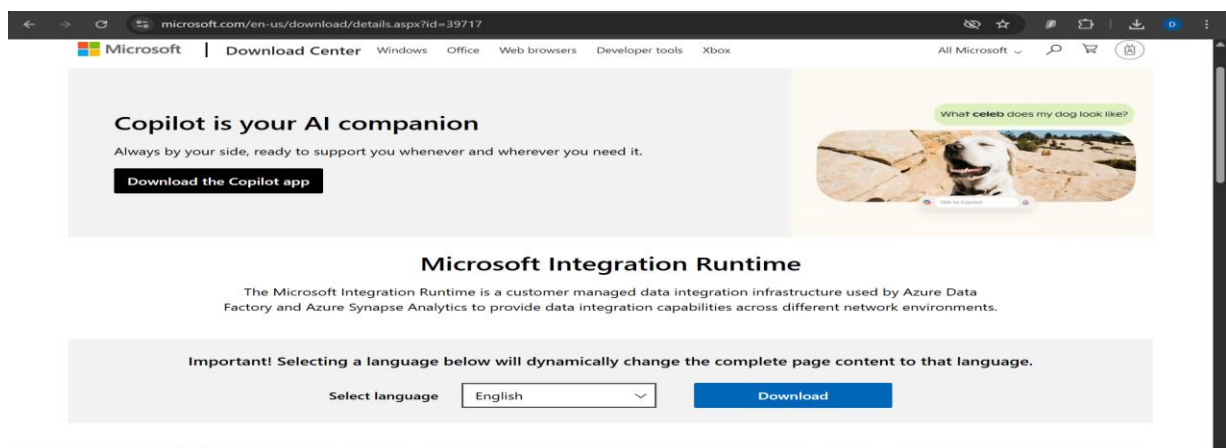
Azure Data Factory
Local System
Azure SQL data base

3. Created an Architecture Diagram



4. Started Creating the Pipeline

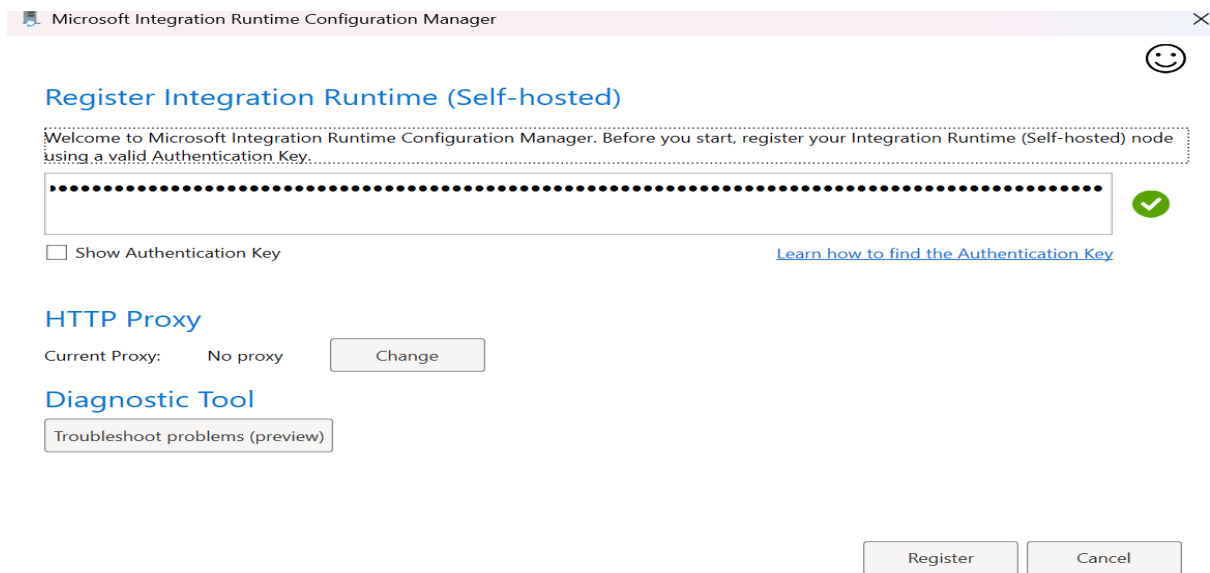
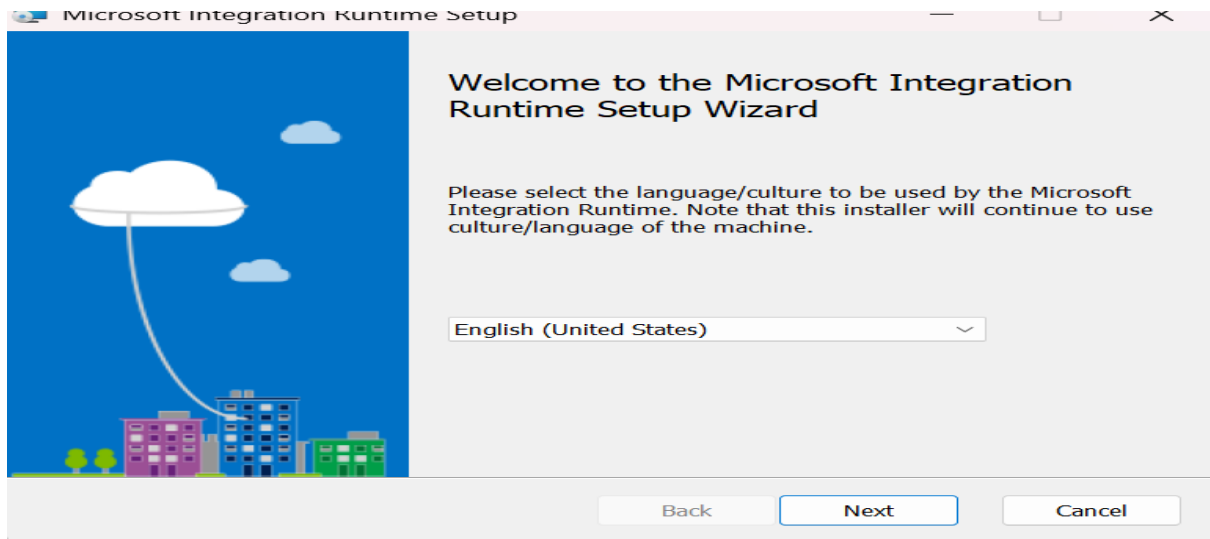
1. First Data pipeline, is to copy data from on premise file storage system to ADLS into Bronze folder.
 - First, we have to download selfhosted integration runtime in local system to connect to Azure cloud.



<input checked="" type="checkbox"/> IntegrationRuntime_5.52.9222.3.msi	1.3 GB
<input type="checkbox"/> Release Notes.docx	100.4 KB

Download

Total size: 1.3 GB



Microsoft Integration Runtime Configuration Manager

Register Integration Runtime (Self-hosted)

Welcome to Microsoft Integration Runtime Configuration Manager. Before you start, register your Integration Runtime (Self-hosted) node using a valid Authentication Key.

✓

☐ Show Authentication Key [Learn how to find the Authentication Key](#)

✓

Integration Runtime (Self-hosted) node has been registered successfully.

Note: You can associate up to 4 physical nodes with a Self-hosted Integration Runtime. This enables high availability and scalability for the Self-hosted Integration Runtime. We recommend you setup at least 2 nodes for higher availability. [See Integration Runtime \(Self-hosted\) article for details.](#)

HTTP Proxy

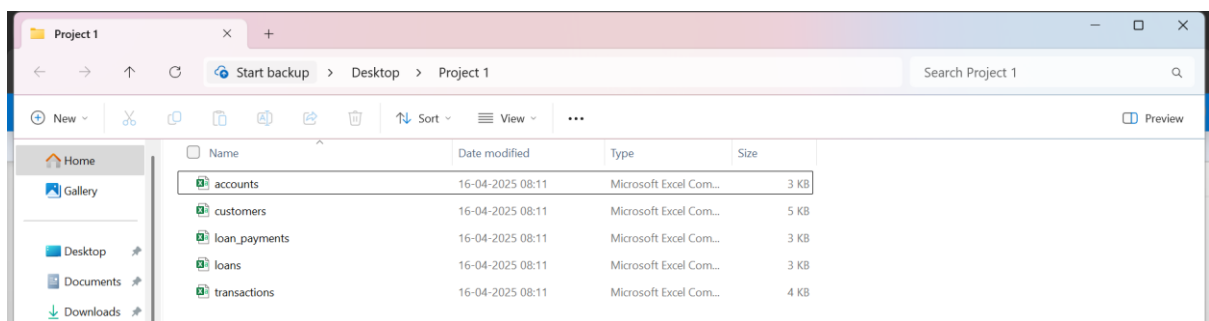
Current Proxy: No proxy Change

Diagnostic Tool

Troubleshoot problems (preview)

Launch Configuration ManagerClose

- Selfhosted integration runtime is successfully installed and registered in local system
- This is where files in local system are located.



- Now created a container and folders in ADLS gen 2.

+

 Container

🔒

 Change access level

↺

 Restore containers

🔄

 Refresh

🗑️

 Delete

🗨️

 Give feedback

●

 Show deleted containers

Name	Last modified	Anonymous access level	Lease state
<input type="checkbox"/> \$logs	3/21/2025, 9:15:31 AM	Private	Available ...
<input type="checkbox"/> container1	3/31/2025, 3:07:03 PM	Private	Available ...
<input type="checkbox"/> projectdata	4/16/2025, 10:47:17 AM	Private	Available ...

⬆️

 Upload

+

 Add Directory

🔄

 Refresh

🔄

 Rename

🗑️

 Delete

↔️

 Change tier

🔑

 Acquire lease

🔑

 Break lease

🗨️

 Give feedback

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

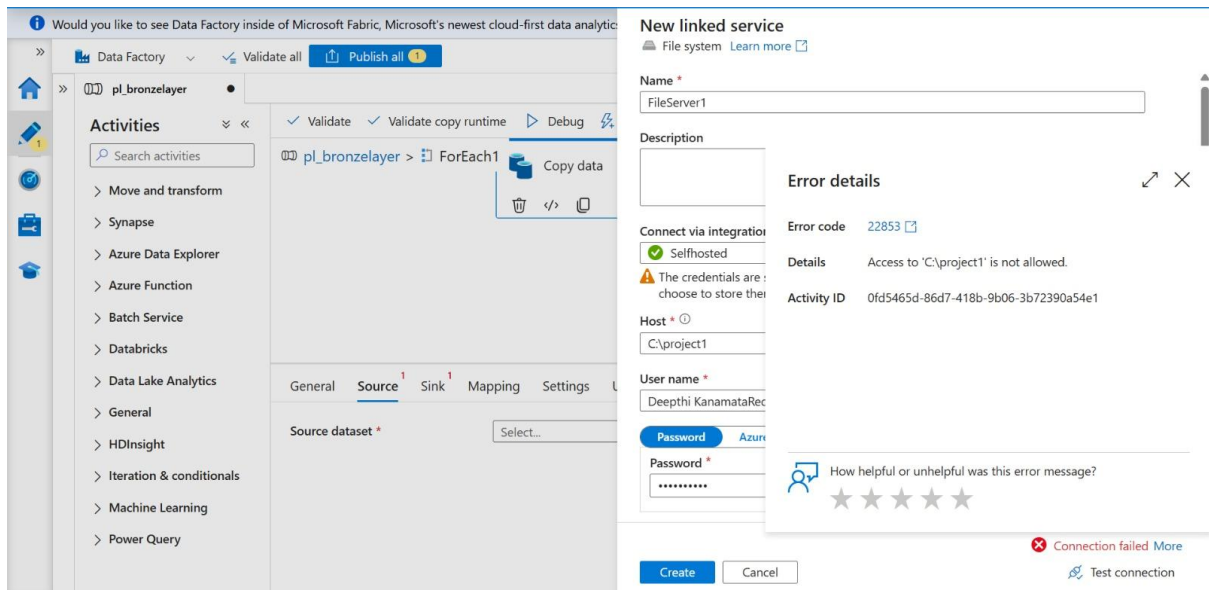
Location: projectdata

●

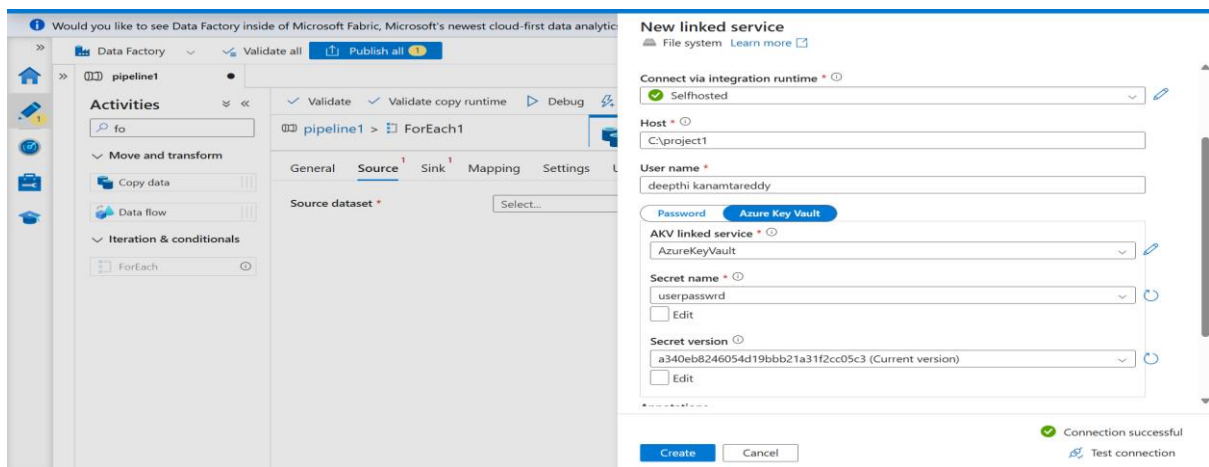
 Show deleted objects

Name	Modified	Access tier	Archive status	Blob type	Size
<input type="checkbox"/> 📁 Bronze	4/16/2025, 10:47:33 ...				
<input type="checkbox"/> 📁 Silver	4/16/2025, 10:51:07 ...				

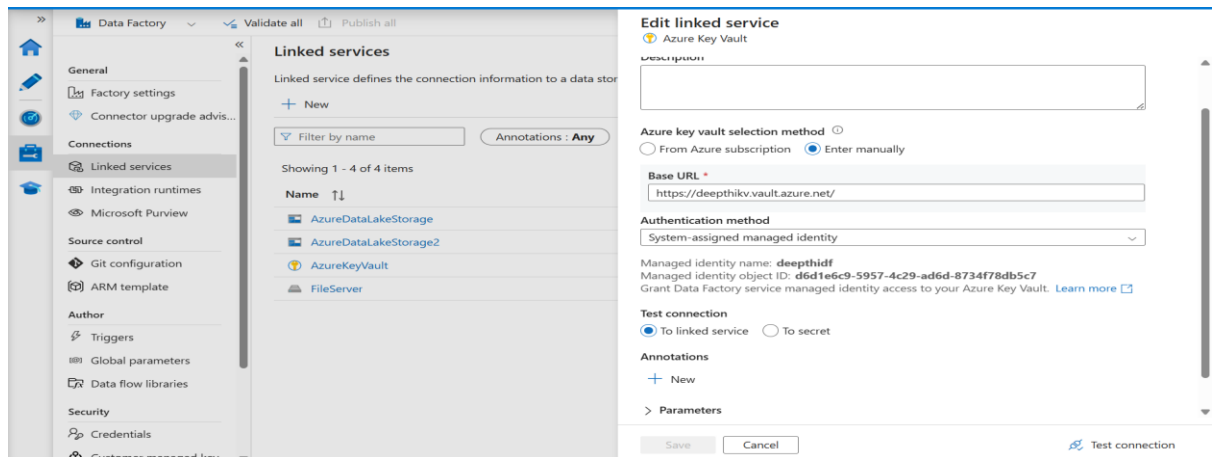
- Now try to create a linked service between local system and Azure cloud.



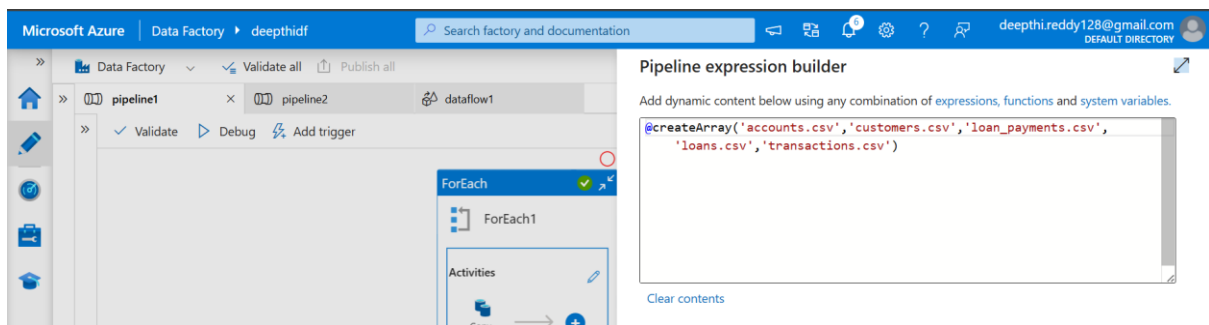
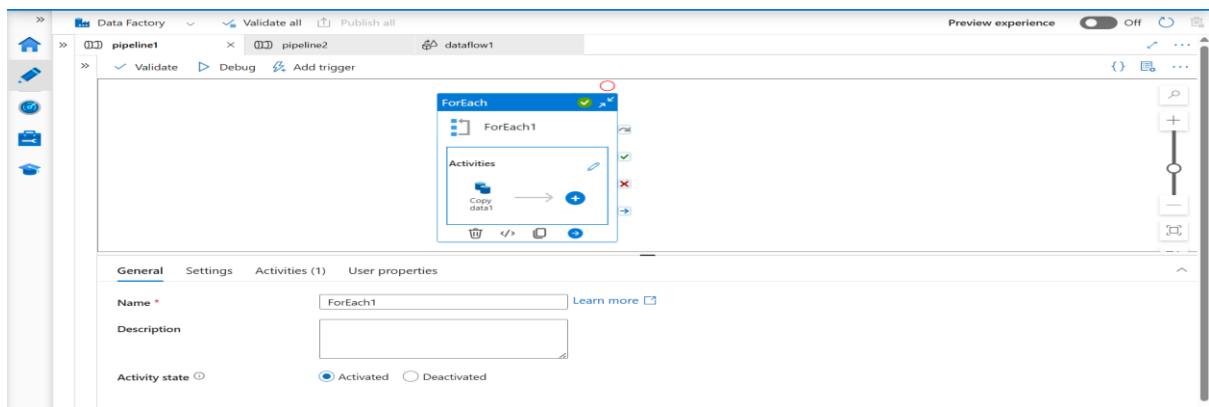
- Faced a connection error while trying to connect to local system, resolved it by using below commands in window power shell.
- First changed directory in power shell using command `cd "C:\Program Files\Microsoft Integration Runtime\5.0\Shared"`.
- Once directory is changed ran command `.\dmgcmd.exe -DisableLocalFolderPathValidation`, which gave access for selfhosted run time to access local system files.



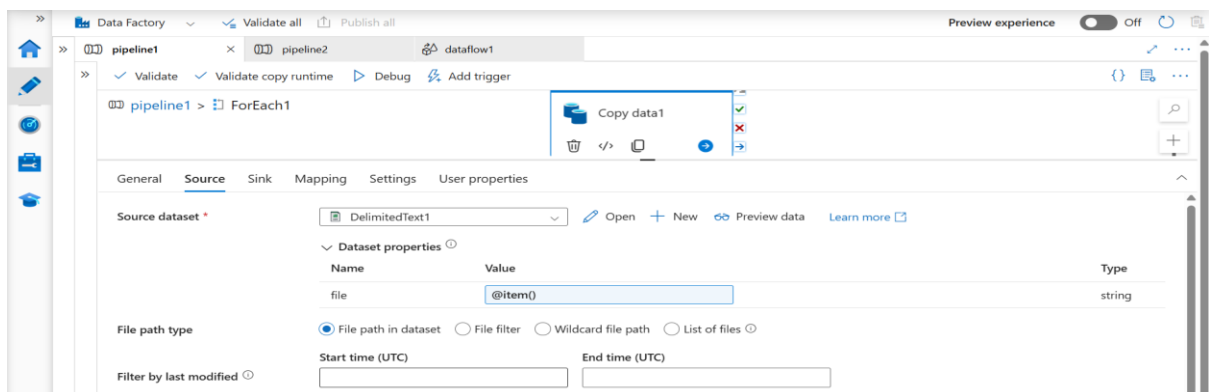
- Connection created successfully.
- Created a linked service for key vault where I stored system password as a secret.



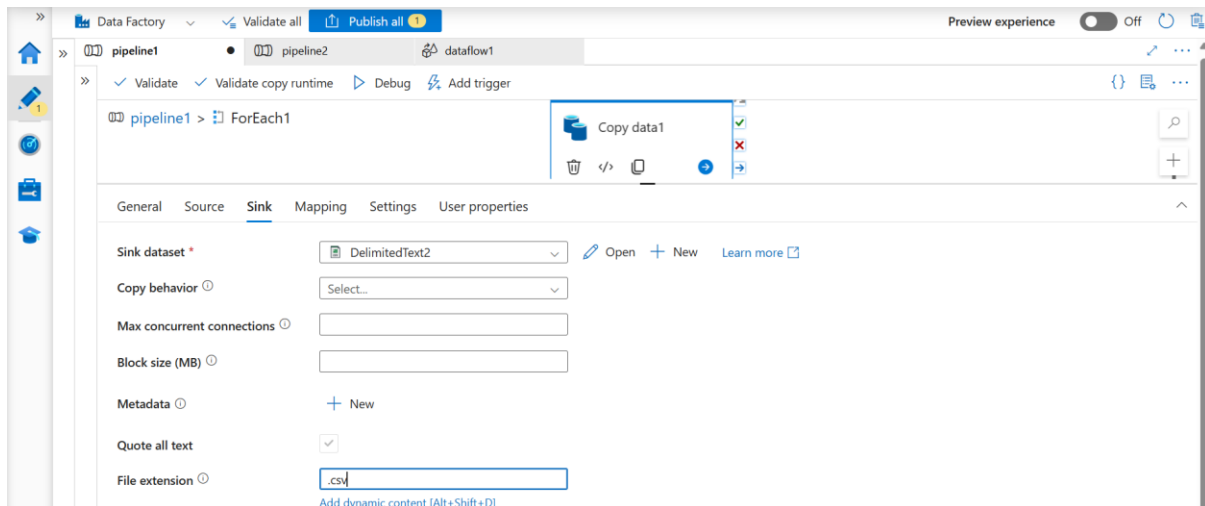
- Created a pipeline with foreach activity, which will loop through an array of file names and will give input to copy activity.



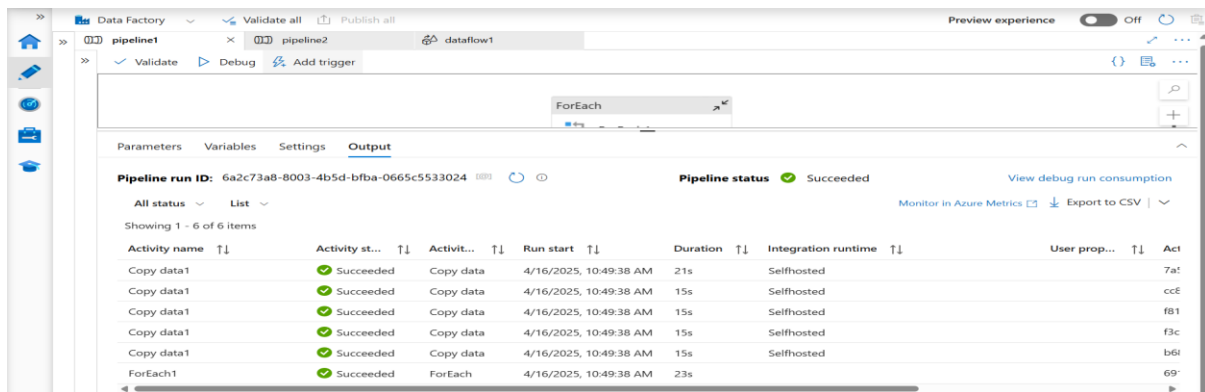
- Copy activity source.



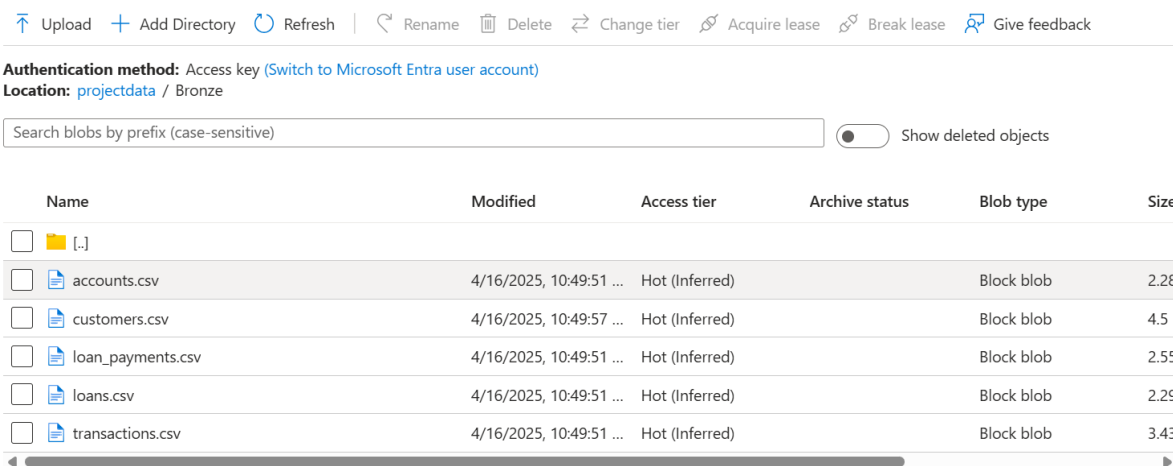
- Copy activity sink.



- Ran pipeline.

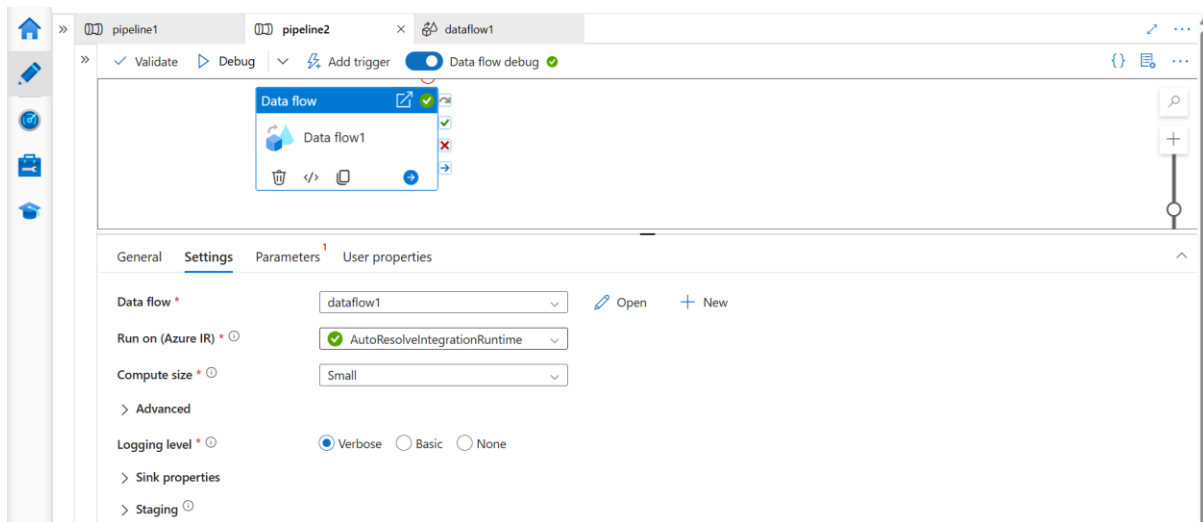


- Pipeline ran successfully and data from on premise is copied to Bronze layer in ADLS.

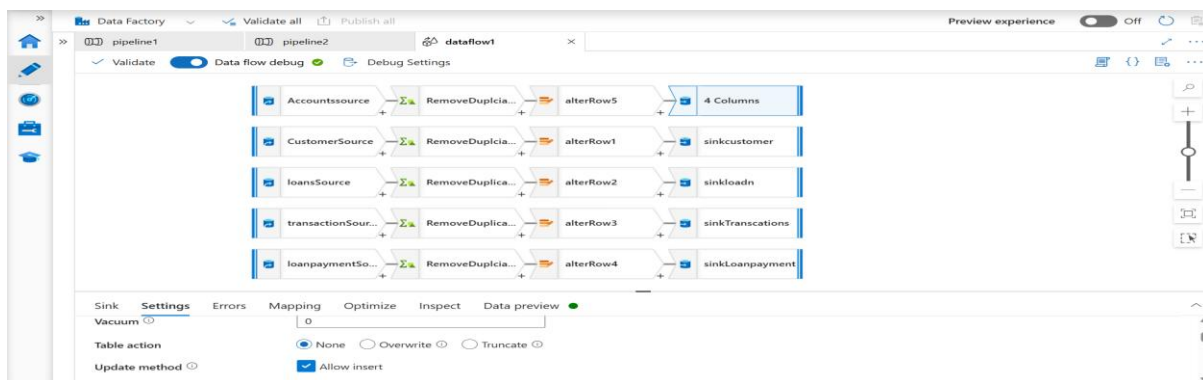


2. Create second pipeline for silver layer, where we have to clean the data, which involves removing duplicates.

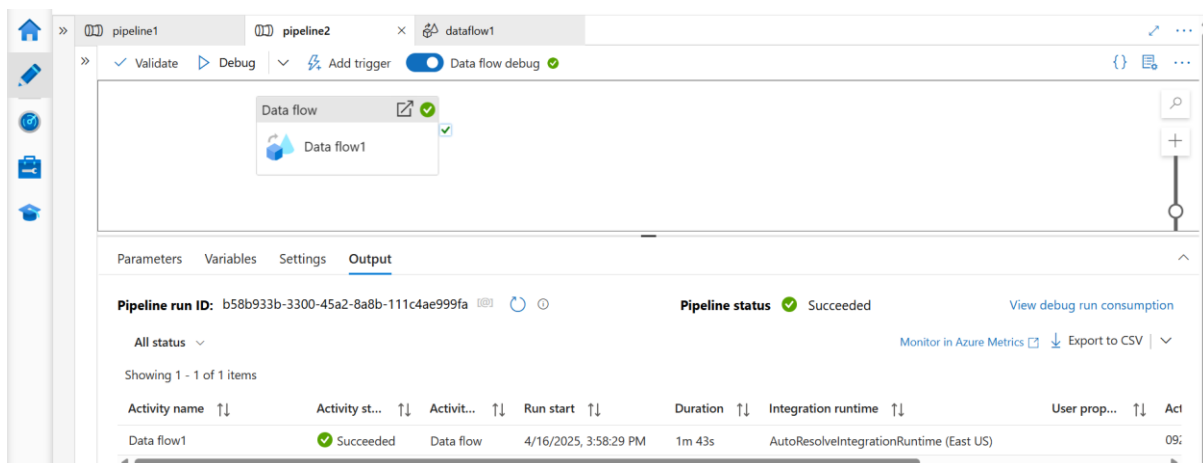
- Create a pipeline, with a dataflow



- Inside dataflow, we will have source, Aggregate transformation, alter row transformation and sink for all 5 files.
- Here we are using groupBy(), to remove duplicates by grouping them with specific ID's and then aggregating all other columns by using first() which return first not null values.
- Alter row transformation is used to perform upsert operation.



- Run pipeline successfully and data is loaded in silver folder in ADLS.



- Data is loaded to specific folders in Silver Directory for each file.

[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: [projectdata](#) / [Silver](#) / loan_payments

Search blobs by prefix (case-sensitive)

☐ Show deleted objects

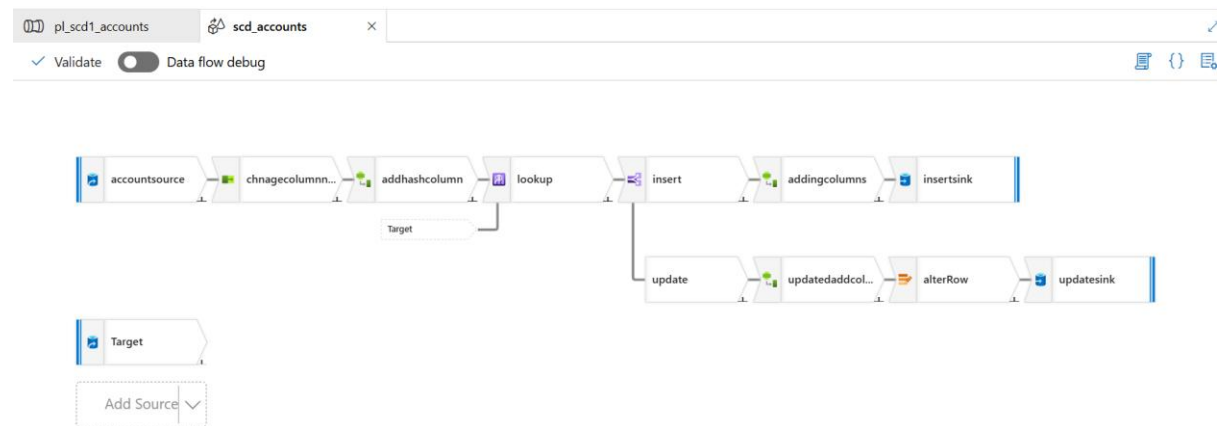
Name	Modified	Access tier	Archive status	Blob type	Size
<input type="checkbox"/> [..]					
<input type="checkbox"/> _delta_log	4/16/2025, 3:58:39 PM				
<input type="checkbox"/> part-00000-09063dcb-e4d3-4d16-88fa-3522e6678df9...	4/16/2025, 3:58:39 PM	Hot (Inferred)		Block blob	2.87

3. Now we have to create 5 different pipelines to perform SCD type 1 and 2 on 5 different tables.

Here we are performing SCD 1 on accounts file, transactions file, customer file.

SCD type 2 on loans and loan_payment file.

- SCD Type 1 on accounts file.



Here we are using a dataflow to perform SCD type 1 on accounts file,

1. Source Transformation

- Data is ingested from the **Silver Layer**.
- Acts as the initial source for the pipeline.

2. Select Transformation

- Used to **rename columns** as per the desired naming convention or schema requirements.

3. Derived Column Transformation (Hash Column)

- A new column is added using the **crc32 hash function**.
- The hash column helps in identifying data changes for comparison and update logic.

4. Target Setup – Azure SQL Database

- An **Accounts table** is created in the target SQL database.

- The table includes all columns from the source data, plus additional metadata columns (created_by, created_date, updated_by, updated_date).

5. Lookup Transformation

- Performs a **Left Join** between the **source data** and the **target SQL table**.
- Used to check if a record already exists in the target.

6. Conditional Split Transformation

- Segregates records into **Insert** and **Update** branches:
 - **Insert:** Records not found in the target.
 - **Update:** Records found with differences (based on hash comparison or existing logic).

7. Derived Column Transformation (Metadata Columns)

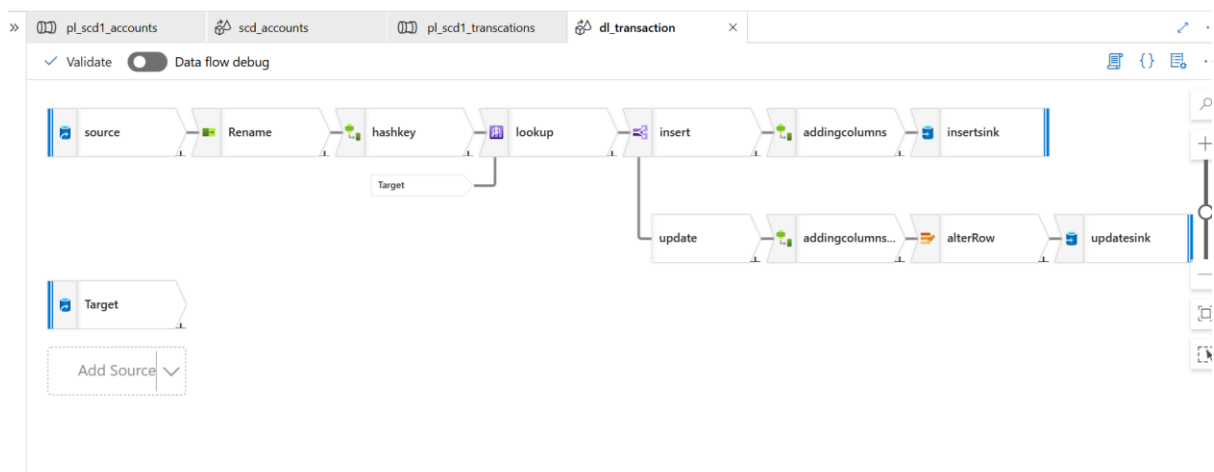
- **Insert Path:**
 - Adds values to created_by, created_date, updated_by, and updated_date.
- **Update Path:**
 - Updates only the updated_by and updated_date fields.

8. Alter Row Transformation (for Update Path)

- Adds update conditions:
 - Sets rows to **update if 1==1** (always true) as condition has already been logically filtered in the Conditional Split.

9. Sink Transformation

- Final data write operation:
 - **Insert Path Sink** writes new records to the Azure SQL Accounts table.
 - **Update Path Sink** updates existing records based on the Alter Row configuration.
- SCD type 1 on transaction table.



1. Source Transformation

- Data is ingested from the **Silver Layer**.
- Acts as the initial source for the pipeline.

2. Select Transformation

- Used to **rename columns** as per the desired naming convention or schema requirements.

3. Derived Column Transformation (Hash Column)

- A new column is added using the **crc32 hash function**.
- The hash column helps in identifying data changes for comparison and update logic.

4. Target Setup – Azure SQL Database

- An **Transaction table** is created in the target SQL database.
- The table includes all columns from the source data, plus additional metadata columns (created_by, created_date, updated_by, updated_date).

5. Lookup Transformation

- Performs a **Left Join** between the **source data** and the **target SQL table**.
- Used to check if a record already exists in the target.

6. Conditional Split Transformation

- Segregates records into **Insert** and **Update** branches:
 - **Insert:** Records not found in the target.
 - **Update:** Records found with differences (based on hash comparison or existing logic).

7. Derived Column Transformation (Metadata Columns)

- **Insert Path:**
 - Adds values to created_by, created_date, updated_by, and updated_date.
- **Update Path:**
 - Updates only the updated_by and updated_date fields.

8. Alter Row Transformation (for Update Path)

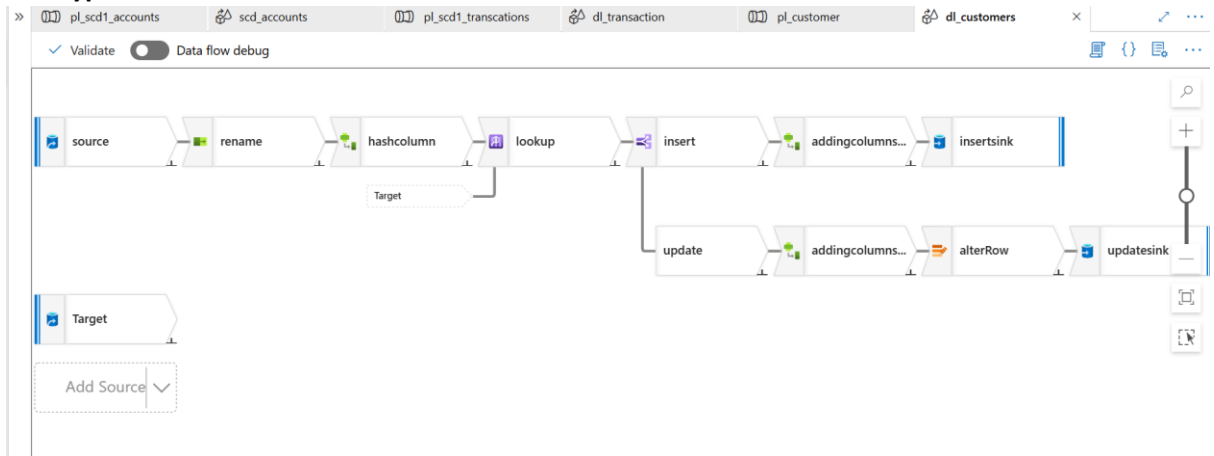
- Adds update conditions:
 - Sets rows to **update if 1==1** (always true) as condition has already been logically filtered in the Conditional Split.

9. Sink Transformation

- Final data write operation:
 - **Insert Path Sink** writes new records to the Azure SQL Accounts table.

- **Update Path Sink** updates existing records based on the Alter Row configuration.

- **SCD type 1 on Customers table.**



1. Source Transformation

- Data is ingested from the **Silver Layer**.
- Acts as the initial source for the pipeline.

2. Select Transformation

- Used to **rename columns** as per the desired naming convention or schema requirements.

3. Derived Column Transformation (Hash Column)

- A new column is added using the **crc32 hash function**.
- The hash column helps in identifying data changes for comparison and update logic.

4. Target Setup – Azure SQL Database

- A **Customer table** is created in the target SQL database.
- The table includes all columns from the source data, plus additional metadata columns (created_by, created_date, updated_by, updated_date).

5. Lookup Transformation

- Performs a **Left Join** between the **source data** and the **target SQL table**.
- Used to check if a record already exists in the target.

6. Conditional Split Transformation

- Segregates records into **Insert** and **Update** branches:
 - **Insert:** Records not found in the target.
 - **Update:** Records found with differences (based on hash comparison or existing logic).

7. Derived Column Transformation (Metadata Columns)

- **Insert Path:**
 - Adds values to created_by, created_date, updated_by, and updated_date.
- **Update Path:**
 - Updates only the updated_by and updated_date fields.

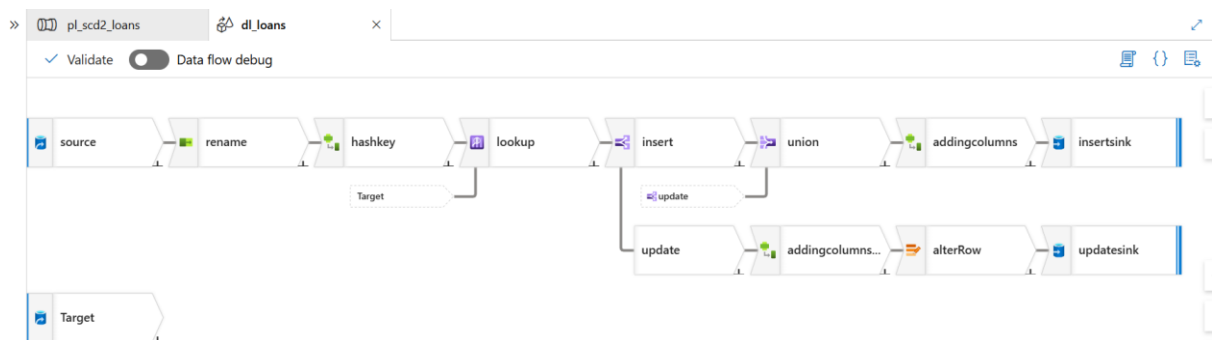
8. Alter Row Transformation (for Update Path)

- Adds update conditions:
 - Sets rows to **update if 1==1** (always true) as condition has already been logically filtered in the Conditional Split.

9. Sink Transformation

- Final data write operation:
 - **Insert Path Sink** writes new records to the Azure SQL Accounts table.
 - **Update Path Sink** updates existing records based on the Alter Row configuration.

- SCD type 2 on Loans File



1. Source Transformation

- **Source Layer:** Silver Layer (Azure Data Lake or similar).
- **Action:** Ingest source data into the data flow pipeline.

2. Select Transformation

- **Purpose:** Rename columns from the source as needed.
- **Action:** Standardize column names to align with the target schema.

3. Derived Column Transformation (Hash Column)

- **Purpose:** Add a new column to help with change detection.
- **Action:**

- Add a **hash column** using the `crc32()` hash function.
 - This will act as a unique fingerprint for each record.
-

4. Target Configuration

- **Target:** Azure SQL Database.
 - **Table:** accounts (contains all columns from the source).
 - **Purpose:** Compare incoming records with existing ones.
-

5. Lookup Transformation

- **Join Type:** Left Join.
 - **Purpose:** Compare source records with the target table (loans) based on business key(s).
 - **Output:** Helps identify whether a record is new or has changed.
-

6. Conditional Split Transformation

- **Purpose:** Classify records into:
 - **Insert:** New records not found in the target.
 - **Update:** Records with changed hash value.
-

7. Update Path

a. Derived Column Transformation (for Update)

- **Add Columns:**
 - `updated_by`
 - `updated_date`
 - `isActive` (set to **0**, marking the old record as inactive).

b. Alter Row Transformation

- **Action:** Use `UpsertIf(1==1)` to handle updates.

c. Sink Transformation

- **Target Table:** loans (Azure SQL Database).
 - **Action:** Load the updated records.
-

8. Insert Path

a. Union Transformation

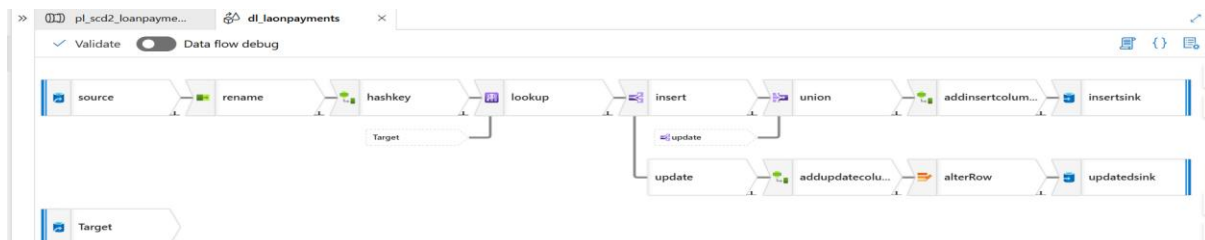
- **Action:** Combine outputs of:
 - Split@Insert
 - Split@Update
(We do this because updated records will be inserted as new rows with updated values.)

b. Derived Column Transformation (for Insert)

- **Add Columns:**
 - created_by
 - created_date
 - updated_by
 - updated_date
 - isActive (set to **1** for active records)

c. Sink Transformation

- **Target Table:** loans (Azure SQL Database).
- **Action:** Load all new/inserted records.
- SCD Type for loans_payment file.



1. Source Transformation

- **Source Layer:** Silver Layer (Azure Data Lake or similar).
 - **Action:** Ingest source data into the data flow pipeline.
-

2. Select Transformation

- **Purpose:** Rename columns from the source as needed.
 - **Action:** Standardize column names to align with the target schema.
-

3. Derived Column Transformation (Hash Column)

- **Purpose:** Add a new column to help with change detection.

- **Action:**
 - Add a **hash column** using the `crc32()` hash function.
 - This will act as a unique fingerprint for each record.
-

4. Target Configuration

- **Target:** Azure SQL Database.
 - **Table:** accounts (contains all columns from the source).
 - **Purpose:** Compare incoming records with existing ones.
-

5. Lookup Transformation

- **Join Type:** Left Join.
 - **Purpose:** Compare source records with the target table (`loans_payment`) based on business key(s).
 - **Output:** Helps identify whether a record is new or has changed.
-

6. Conditional Split Transformation

- **Purpose:** Classify records into:
 - **Insert:** New records not found in the target.
 - **Update:** Records with changed hash value.
-

7. Update Path

a. Derived Column Transformation (for Update)

- **Add Columns:**
 - `updated_by`
 - `updated_date`
 - `isActive` (set to **0**, marking the old record as inactive).

b. Alter Row Transformation

- **Action:** Use `UpsertIf(1==1)` to handle updates.

c. Sink Transformation

- **Target Table:** `loans_payment` (Azure SQL Database).
- **Action:** Load the updated records.

8. Insert Path

a. Union Transformation

- **Action:** Combine outputs of:
 - Split@Insert
 - Split@Update
(We do this because updated records will be inserted as new rows with updated values.)

b. Derived Column Transformation (for Insert)

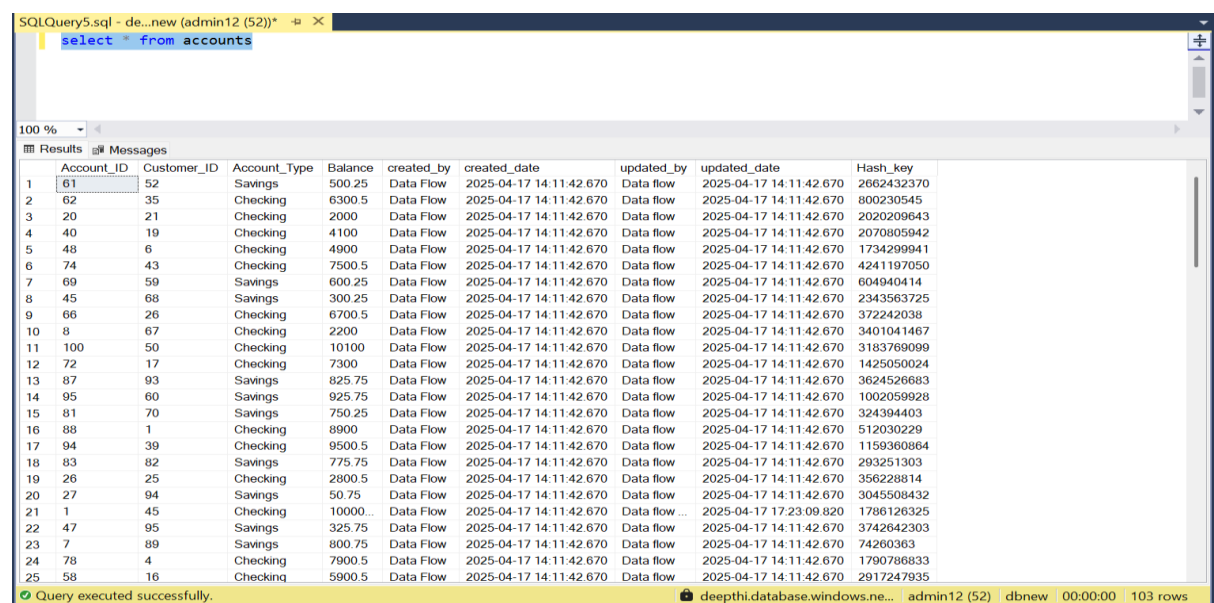
- **Add Columns:**
 - created_by
 - created_date
 - updated_by
 - updated_date
 - isActive (set to **1** for active records)

c. Sink Transformation

- **Target Table:** loans (Azure SQL Database).
- **Action:** Load all new/inserted records.

Tables output:

Accounts table output before update



The screenshot shows a SQL query window with the query `select * from accounts` executed. The results are displayed in a table with 10 columns: Account_ID, Customer_ID, Account_Type, Balance, created_by, created_date, updated_by, updated_date, and Hash_key. The table contains 25 rows of data. The status bar at the bottom indicates 'Query executed successfully.' and '103 rows'.

	Account_ID	Customer_ID	Account_Type	Balance	created_by	created_date	updated_by	updated_date	Hash_key
1	61	52	Savings	500.25	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	2662432370
2	62	35	Checking	6300.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	800230545
3	20	21	Checking	2000	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	2020209643
4	40	19	Checking	4100	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	2070805942
5	48	6	Checking	4900	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1734299941
6	74	43	Checking	7500.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	4241197050
7	69	59	Savings	600.25	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	604940414
8	45	68	Savings	300.25	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	2343563725
9	66	26	Checking	6700.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	372242038
10	8	67	Checking	2200	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3401041467
11	100	50	Checking	10100	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3183769099
12	72	17	Checking	7300	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1425050024
13	87	93	Savings	825.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3624526683
14	95	60	Savings	925.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1002059928
15	81	70	Savings	750.25	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	324394403
16	88	1	Checking	8900	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	512030229
17	94	39	Checking	9500.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1159360864
18	83	82	Savings	775.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	293251303
19	26	25	Checking	2800.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	356228814
20	27	94	Savings	50.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3045508432
21	1	45	Checking	10000.	Data Flow	2025-04-17 14:11:42.670	Data flow ...	2025-04-17 17:23:09.820	1786126325
22	47	95	Savings	325.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3742642303
23	7	89	Savings	800.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	74260363
24	78	4	Checking	7900.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1790786833
25	58	16	Checking	5900.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	2917247935

Accounts output after update

SQLQuery5.sql - de...new (admin12 (52))*

select * from accounts

100 %

Results Messages

	Account_ID	Customer_ID	Account_Type	Balance	created_by	created_date	updated_by	updated_date	Hash_key
14	95	60	Savings	925.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1002059928
15	81	70	Savings	750.25	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	324394403
16	88	1	Checking	8900	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	512030229
17	94	39	Checking	9500.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1159360864
18	83	82	Savings	775.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	293251303
19	26	25	Checking	2800.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	356228814
20	27	94	Savings	50.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3045508432
21	1	45	Checking	10000...	Data Flow	2025-04-17 14:11:42.670	Data flow updated	2025-04-17 17:23:09.820	1786126325
22	47	95	Savings	325.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3742642303
23	7	89	Savings	800.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	74260363
24	78	4	Checking	7900.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1790786833
25	58	16	Checking	5900.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	2917247935
26	6	23	Checking	1200.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	589336936
27	16	18	Checking	1400	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	427159154
28	86	21	Checking	8700.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	2919860885
29	19	76	Savings	400.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3392242716
30	82	2	Checking	8300.5	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3247491694
31	96	48	Checking	9700	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3750651349
32	64	12	Checking	6500	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1796018383
33	51	72	Savings	375.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1266528029
34	56	28	Checking	5700	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3877942592
35	21	53	Savings	300.25	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	2800704470
36	93	79	Savings	900.25	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	1341072067
37	41	51	Savings	250.25	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	3809047718
38	23	88	Savings	200.75	Data Flow	2025-04-17 14:11:42.670	Data flow	2025-04-17 14:11:42.670	609358004

Customers Output before update

SQLQuery5.sql - de...new (admin12 (52))*

select * from customers

100 %

Results Messages

	customer_id	first_name	last_name	address	city	state	zip	Hash_key	created_by	created_date	updated_by	updated_date
1	61	William	Butler	6060 Pine Rd	Allston	ON	L9R0A1	2843338866	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
2	62	Ava	Simmons	6161 Birch Blvd	Angus	ON	L0M0A1	3225444063	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
3	48	Harper	James	4747 Birch Blvd	Port Perry	ON	L9L0A1	1193783485	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
4	20	Mia	Nelson	1919 Birch Blvd	London	ON	N6A0A1	1253444537	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
5	40	Sophia	Rivera	3939 Poplar St	Milton	ON	L9T0A1	2044068006	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
6	74	Harper	Graham	7373 Oak Dr	Bala	ON	P0C0A1	1018203586	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
7	69	Joseph	Diaz	6868 Ash Blvd	Port McNicoll	ON	L0K0A1	1007204551	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
8	45	Christopher	Ward	4444 Maple Ave	Keswick	ON	L4P0A1	4066187802	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
9	66	Sophia	Alexander	6565 Cypress Ave	Midland	ON	L4R0A1	3084425070	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
10	52	Abigail	Henderson	5151 Cypress Ave	Mount Albert	ON	L0G0A1	569556118	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
11	18	Amelia	Adams	1717 Oak Dr	Saskatoon	SK	S7K0A1	2440028568	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
12	8	Olivia	Garcia	707 Fir St	Edmonton	AB	T5A0A1	443479193	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
13	72	Mia	Ford	7171 Elm St	Orillia	ON	L3V0A1	606593927	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
14	38	Isabella	Murphy	3737 Cypress Ave	Woodstock	ON	N4S0A1	2149205568	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
15	87	William	McDonald	8686 Maple Ave	Haileybury	NULL	NULL	4278190080	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
16	25	Daniel	Campbell	2424 Willow Rd	St. Catharines	ON	L2R0A1	3303870564	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
17	73	Andrew	Hamilton	7272 Maple Ave	Gravenhurst	ON	P1P0A1	1705324081	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
18	81	Michael	Owens	8080 Willow Rd	Mattawa	ON	P0H0A1	2930666904	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
19	14	Sophia	Young	1313 Beech Dr	Yellowknife	NT	X1A0A1	1246741277	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
20	83	David	Fisher	8282 Ash Blvd	Verner	ON	P0H0A1	571593609	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
21	13	Daniel	Harris	1212 Ash Blvd	Charlottetown	PE	C1A0A1	2952121673	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
22	53	James	Jenkins	5252 Willow Rd	Queensville	ON	L0G0A1	3491966471	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
23	11	Alexander	Thomas	1010 Willow Rd	St. John's	NL	A1A0A1	823092523	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
24	33	John	Rogers	3232 Pine Rd	Timmins	ON	P4N0A1	759683501	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787
25	26	Abigail	Parker	2525 Poplar St	Barrie	ON	L4M0A1	2907621863	Data flow	2025-04-17 14:34:54.787	Data flow	2025-04-17 14:34:54.787

After update

SQLQuery5.sql - de...new (admin12 (52))*

```
select * from customers
```

100 %

Results Messages

	customer_id	first_name	last_name	address	city	state	zip	Hash_key	created_by	created_date	updated_by	update
24	33	John	Rogers	3232 Pine Rd	Timmins	ON	P4N0A1	759683501	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
25	26	Abigail	Parker	2525 Poplar St	Barrie	ON	L4M0A1	2907621863	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
26	27	James	Evans	2626 Ash Blvd	Guelph	ON	N1H0A1	2772220524	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
27	1	John	Doe	365 Douglas Str...	Sudbury	On	M4B1...	849929893	Data flow	2025-04-17 14:34:54.787	Data flow updated	2025-(
28	68	Charlotte	Griffin	6767 Poplar St	Victoria Har...	ON	L0K0A1	3360600281	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
29	71	Christopher	Myers	7070 Cedar Ln	Coldwater	ON	L0K0A1	2774108813	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
30	54	Emily	Perry	5353 Poplar St	Sharon	ON	L0G0A1	438595883	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
31	7	James	Martinez	606 Spruce Ln	Winnipeg	MB	R3C0A1	4278935663	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
32	42	Charlotte	Richards...	4141 Beech Dr	Newmarket	ON	L3Y0A1	2954704707	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
33	65	Daniel	Bryant	6464 Redwood Dr	Elmvale	ON	L0L0A1	2240443872	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
34	6	Emma	Clark	505 Cedar St	Halifax	NS	B3H0A1	4268191859	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
35	16	Charlotte	Scott	1515 Elm St	Iqaluit	NU	X0A0A1	3041710806	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
36	86	Olivia	Gibson	8585 Elm St	New Liskeard	ON	P0J0A1	3211827869	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
37	37	Alexander	Bell	3636 Redwood Dr	Stratford	ON	N5A0A1	2227707500	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
38	70	Amelia	Hayes	6969 Beech Dr	Waubaushe...	ON	L0K0A1	3394946189	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
39	3	Michael	Johnson	24 Iormal gate	Brampton	ON	L1K0B9	3078958275	Data flow	2025-04-17 14:34:54.787	Data flow updated	2025-(
40	15	Matthew	King	1414 Cedar Ln	Whitehorse	YT	Y1A0A1	2618655931	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
41	43	Joseph	Cox	4242 Cedar Ln	Aurora	ON	L4G0A1	1577555620	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
42	10	Ava	Anderson	909 Cypress Ave	Quebec City	QC	G1A0...	980781681	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
43	77	Daniel	Woods	7676 Spruce Ln	Burks Falls	ON	P0A0A1	982036174	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
44	85	John	Harrison	8484 Cedar Ln	Temagami	ON	P0H0A1	1599281831	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
45	47	Andrew	Gray	4646 Pine Rd	Uxbridge	ON	L9P0A1	2520758040	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
46	78	Abigail	Cole	7777 Fir St	Sundridge	ON	P0A0A1	3332988847	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(
47	58	Sophia	Huohes	5757 Elm St	Nobleton	ON	L0G0A1	738663141	Data flow	2025-04-17 14:34:54.787	Data flow	2025-(

Transaction output before update

SQLQuery5.sql - de...new (admin12 (52))*

```
select * from transactions
```

100 %

Results Messages

	transaction_id	account_id	transaction_date	transaction_amount	transaction_type	hash_key	created_by	created_date	updated_by	updated_date
1	61	52	2024-03-01	100.5	Deposit	2246730977	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
2	62	35	2024-03-02	200.75	Withdrawal	332076340	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
3	20	21	2024-01-20	375.25	Withdrawal	1996273466	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
4	40	19	2024-02-09	375.25	Withdrawal	4096364083	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
5	48	6	2024-02-17	275.75	Withdrawal	1280373336	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
6	74	43	2024-03-14	300.25	Withdrawal	2016898905	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
7	66	26	2024-03-06	175	Withdrawal	1913875452	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
8	19	76	2024-01-19	325	Deposit	4067890410	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
9	82	2	2024-03-22	200.75	Withdrawal	3196733283	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
10	96	48	2024-04-05	175	Withdrawal	2616276368	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
11	12	81	2024-01-12	200.75	Withdrawal	3980785899	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
12	21	53	2024-01-21	100.5	Deposit	1388575013	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
13	41	51	2024-02-10	100.5	Deposit	146063313	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
14	34	41	2024-02-03	300.25	Withdrawal	4262142999	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
15	97	90	2024-04-06	225.5	Deposit	2081911181	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
16	89	54	2024-03-29	325	Deposit	2402255007	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
17	80	30	2024-03-20	375.25	Withdrawal	2478637051	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
18	69	59	2024-03-09	325	Deposit	2669722718	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
19	45	68	2024-02-14	250	Deposit	3192778672	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
20	91	77	2024-03-31	100.5	Deposit	913674472	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
21	52	10	2024-02-21	200.75	Withdrawal	1759883603	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
22	18	5	2024-01-18	275.75	Withdrawal	2726697585	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
23	8	67	2024-01-08	275.75	Withdrawal	1426350130	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
24	100	50	2024-04-09	375.25	Withdrawal	2772979164	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493
25	72	17	2024-03-12	200.75	Withdrawal	512396389	Data flow	2025-04-17 16:02:37.493	Data flow	2025-04-17 16:02:37.493

After update

SQLQuery5.sql - de...new (admin12 (52))* ✕

```
select * from transacions
```

100 %

Results Messages

	transaction_id	account_id	transaction_date	transaction_amount	transaction_type	hash_key	created_by	created_date	updated_by
81	90	38	2024-03-30	375.25	Withdrawal	2181856408	Data flow	2025-04-17 16:02:37.493	Data flow
82	28	7	2024-01-28	275.75	Withdrawal	806394621	Data flow	2025-04-17 16:02:37.493	Data flow
83	36	27	2024-02-05	175	Withdrawal	1598898740	Data flow	2025-04-17 16:02:37.493	Data flow
84	24	11	2024-01-24	300.25	Withdrawal	1340511348	Data flow	2025-04-17 16:02:37.493	Data flow
85	5	56	2024-01-05	250	Deposit	725694063	Data flow	2025-04-17 16:02:37.493	Data flow
86	2	12	2025-01-15	250	Deposit	3332805669	Data flow	2025-04-17 16:02:37.493	Data flow updated
87	79	55	2024-03-19	325	Deposit	3856079114	Data flow	2025-04-17 16:02:37.493	Data flow
88	76	22	2024-03-16	175	Withdrawal	3156668229	Data flow	2025-04-17 16:02:37.493	Data flow
89	9	14	2024-01-09	325	Deposit	3060435398	Data flow	2025-04-17 16:02:37.493	Data flow
90	17	99	2024-01-17	225.5	Deposit	2285113382	Data flow	2025-04-17 16:02:37.493	Data flow
91	57	97	2024-02-26	225.5	Deposit	3354197768	Data flow	2025-04-17 16:02:37.493	Data flow
92	23	88	2024-01-23	150	Deposit	3611063752	Data flow	2025-04-17 16:02:37.493	Data flow
93	39	74	2024-02-08	325	Deposit	1677328493	Data flow	2025-04-17 16:02:37.493	Data flow
94	49	57	2024-02-18	325	Deposit	2313711375	Data flow	2025-04-17 16:02:37.493	Data flow
95	63	84	2024-03-03	150	Deposit	2609111149	Data flow	2025-04-17 16:02:37.493	Data flow
96	31	71	2024-01-31	100.5	Deposit	477929762	Data flow	2025-04-17 16:02:37.493	Data flow
97	50	31	2024-02-19	375.25	Withdrawal	3874682730	Data flow	2025-04-17 16:02:37.493	Data flow
98	22	37	2024-01-22	200.75	Withdrawal	4031427225	Data flow	2025-04-17 16:02:37.493	Data flow
99	46	24	2024-02-15	175	Withdrawal	3638193458	Data flow	2025-04-17 16:02:37.493	Data flow
100	67	96	2024-03-07	225.5	Deposit	1012429981	Data flow	2025-04-17 16:02:37.493	Data flow
101	567	63	2025-01-18	275.75	Withdrawal	3128895001	Data flow	2025-04-17 17:20:07.633	Data flow updated
102	123	45	2025-01-17	225.5	Deposit	1433409585	Data flow	2025-04-17 17:20:07.633	Data flow updated
103	345	23	2025-01-16	175	Withdrawal	1102372133	Data flow	2025-04-17 17:20:07.633	Data flow updated

Loans output before update

SQLQuery5.sql - de...new (admin12 (52))* ✕

```
select * from loans
```

100 %

Results Messages

	loan_id	customer_id	loan_amount	interest_rate	loan_term	Hash_key	created_by	created_date	updated_by	updated_date	isActive
1	61	52	10000.25	5	36	2894988696	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
2	62	35	20000.5	4	48	2629764668	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
3	48	6	27500	3	24	2806356369	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
4	20	21	37500	3.5	24	1388545671	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
5	40	19	37500	3	24	570153790	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
6	74	43	30000.5	4.5	48	1215019206	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
7	69	59	32500.25	5	36	1838491308	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
8	45	68	25000.25	5	36	1252029156	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
9	66	26	17500.5	4.5	48	2285969467	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
10	52	10	20000	3.5	24	4076642709	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
11	18	5	27500.5	4.5	48	2462199601	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
12	8	67	27500	3	24	4106075248	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
13	100	50	37500	3.5	24	4130867853	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
14	38	15	27500.5	4	48	2945825878	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
15	87	93	22500.75	6.5	60	3240117383	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
16	95	60	25000.75	6.5	60	3959425324	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
17	98	49	27500.5	4.5	48	1140069127	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
18	81	70	10000.25	5.5	36	2726906585	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
19	14	64	30000.5	4	48	2167198012	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
20	83	82	15000.75	6	60	2402015606	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
21	94	39	30000.5	4	48	833634400	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
22	53	86	15000.25	5	36	95809912	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
23	11	3	10000.75	6	60	2179146733	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
24	33	85	15000.25	5.5	36	3626737984	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
25	13	29	15000.25	5	36	1193680727	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1

Query executed successfully. | deepthi.database.windows.ne... | admin12 (52) | dbnew | 00:00:00 | 105 rows

After update

SQLQuery5.sql - de...new (admin12 (52))*

```
select * from loans
```

100 %

Results Messages

	loan_id	customer_id	loan_amount	interest_rate	loan_term	Hash_key	created_by	created_date	updated_by	updated_date	isActive
21	94	39	30000.5	4	48	833634400	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
22	53	86	15000.25	5	36	95809912	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
23	11	3	10000.75	6	60	2179146733	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
24	33	85	15000.25	5.5	36	3626737984	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
25	13	29	15000.25	5	36	1193680727	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
26	26	25	17500.5	4.5	48	3787063410	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
27	27	94	22500.75	6	60	2416636917	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
28	1	45	10000.5	5.5	36	2502041691	Data flow	2025-04-17 16:27:35.113	Data flow updated	2025-04-17 17:23:24.227	0
29	68	8	27500	3.5	24	4092520027	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
30	71	73	10000.75	6.5	60	2582010064	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
31	54	42	30000.5	4	48	345409227	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
32	65	69	25000.25	5.5	36	89702846	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
33	6	23	17500.5	4	48	172242294	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
34	16	18	17500	3	24	1224054208	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
35	86	21	17500.5	4	48	3548058147	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
36	37	98	22500.25	5	36	3168120220	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
37	70	33	37500.5	4	48	1845717833	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
38	3	78	15000	6	60	4060872917	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
39	15	47	25000.75	6.5	60	3344653795	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
40	43	83	15000.75	6	60	2268076881	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
41	4	34	30000.25	3.5	24	2847880128	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
42	55	63	25000.75	6.5	60	91833510	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
43	59	75	32500.75	6	60	1039161747	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1
44	30	32	37500.5	4	48	1738866251	Data flow	2025-04-17 16:27:35.113	Data flow	2025-04-17 16:27:35.113	1

Loans_payment output

SQLQuery5.sql - de...new (admin12 (52))*

```
select * from loan_payments
```

100 %

Results Messages

	payment_id	loan_id	payment_date	payment_amount	Hash_key	created_by	created_date	updated_by	updated_date	isActive
1	61	72	2024-03-01	3100	3924611863	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
2	62	83	2024-03-02	3150	1029034042	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
3	48	29	2024-02-17	2450	3637231558	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
4	20	21	2024-01-20	1050	1615996424	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
5	40	41	2024-02-09	2050	1343458395	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
6	74	15	2024-03-14	3750	3135475598	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
7	69	60	2024-03-09	3500	491520019	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
8	45	96	2024-02-14	2300	1621318141	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
9	66	27	2024-03-06	3350	994003179	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
10	91	2	2024-03-31	4600	1683991877	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
11	52	73	2024-02-21	2650	2180006131	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
12	18	99	2024-01-18	950	1842146605	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
13	8	78	2024-01-08	450	2203091019	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
14	100	33	2024-04-10	1000	3282935963	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
15	72	93	2024-03-12	3650	3387588883	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
16	38	19	2024-02-07	1950	1638363830	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
17	87	58	2024-03-27	4400	2921376310	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
18	10	11	2024-01-10	550	3325951132	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
19	77	48	2024-03-17	3900	1459068700	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
20	25	76	2024-01-25	1300	3103134555	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
21	73	4	2024-03-13	3700	2803722244	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
22	98	79	2024-04-07	4950	1696436217	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
23	81	92	2024-03-21	4100	3055140156	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
24	88	69	2024-03-28	4450	1091152386	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
25	83	14	2024-03-23	4200	2734147888	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1

After update

SQLQuery5.sql - de...new (admin12 (52))

```
select * from loan_payments
```

100 %

Results Messages

	payment_id	loan_id	payment_date	payment_amount	Hash_key	created_by	created_date	updated_by	updated_date	isActive
27	11	22	2024-01-11	600	3894410316	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
28	33	64	2024-02-02	1700	3793101080	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
29	13	44	2024-01-13	700	1774633368	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
30	1	45	2024-01-01	100	4189237233	Dat flow	2025-04-17 16:55:40.270	Data flow updated	2025-04-17 20:34:21.197	0
31	47	18	2024-02-16	2400	1742587055	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
32	42	63	2024-02-11	2150	929699495	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
33	65	16	2024-03-05	3300	4085199564	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
34	78	59	2024-03-18	3950	3154834603	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
35	58	39	2024-02-27	2950	618787123	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
36	37	8	2024-02-06	1900	1399685596	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
37	70	71	2024-03-10	3550	2691722837	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
38	3	67	2024-01-03	200	2777852429	Dat flow	2025-04-17 16:55:40.270	Data flow updated	2025-04-17 20:34:21.197	0
39	96	57	2024-04-05	4850	527381219	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
40	15	66	2024-01-15	800	1613741173	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
41	43	74	2024-02-12	2200	1860095018	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
42	4	89	2024-01-04	250	264335070	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
43	55	6	2024-02-24	2800	3826209936	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
44	59	50	2024-02-28	3000	2601744444	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
45	64	5	2024-03-04	3250	3762579497	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
46	12	33	2024-01-12	650	2585655648	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
47	92	13	2024-04-01	4650	3319289274	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
48	21	32	2024-01-21	1100	2813434115	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
49	35	86	2024-02-04	1800	1398475438	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
50	44	85	2024-02-13	2250	3297825740	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1
51	93	24	2024-04-02	4700	3816339412	Dat flow	2025-04-17 16:55:40.270	Data flow	2025-04-17 16:55:40.270	1

Created a trigger to run pipeline at 8:30 every day

Data Factory | Validate all | Publish all

pL_master

Activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

Parameters Variables Settings Output

+ New

New trigger

Name *
trigger

Description

Type *
Schedule

Start date *
4/21/2025, 4:41:04 PM

Time zone *
Eastern Time (US & Canada) (UTC-5)
This time zone observes daylight savings. Trigger will auto-adjust for one hour difference.

Recurrence *
Every 1 Day(s)

Advanced recurrence options

Execute at these times

OK Cancel

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deepthi.reddy128@gmail.com
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»

Data Factory

Validate all

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Activities

Search activities

Move and transform

Synapse

Azure Data Explorer

Azure Function

Batch Service

Databricks

Data Lake Analytics

General

HDInsight

Iteration & conditionals

Machine Learning

Power Query

Validate

Debug

Add trigger

Parameters

Variables

Settings

Output

+ New

New trigger

Time zone ⓘ
Eastern Time (US & Canada) (UTC-5)
 ⓘ This time zone observes daylight savings. Trigger will auto-adjust for one hour difference.

Recurrence ⓘ
Every 1 Day(s)

Advanced recurrence options
Execute at these times ⓘ
Hours 8
Minutes 30
Schedule execution times
08:30
☐ Specify an end date

Annotations
+ New

Start trigger ⓘ
☒ Start trigger on creation

OK Cancel