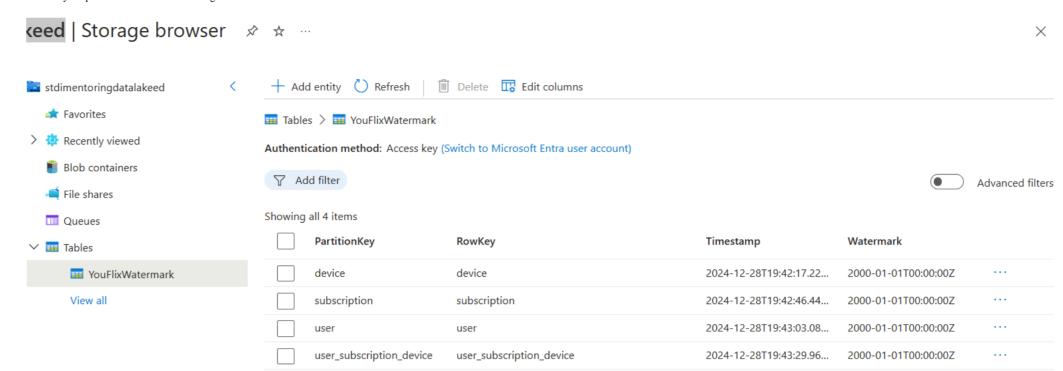
## Task 1.1 Synapse Pipeline with Copy Data Activity

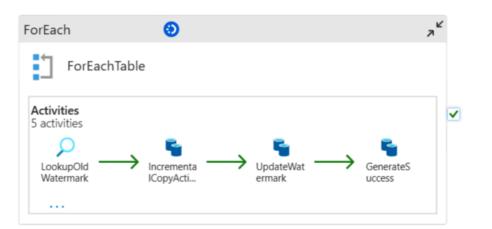
## **Run Scenario:**

1. Before starting the run scenario, clear bronze/youflix folder and re-create YouFlixDB database from scratch using DeploymentScript.sql script. It is necessary to get rid of the results of your previous execution and testing activities.



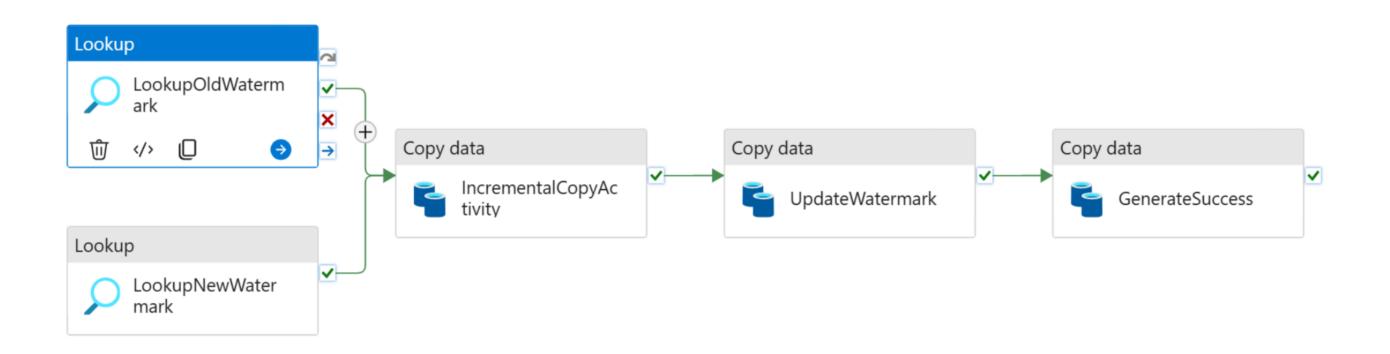
<sup>2.</sup> Go to data lake stdimentoringdatalakexx and proceed to Storage browser, then click on Tables and edit each of entity by setting watermark value to 2000-01-01T00:00:00.00Z.





3. Take screenshot(s) of your pipeline.

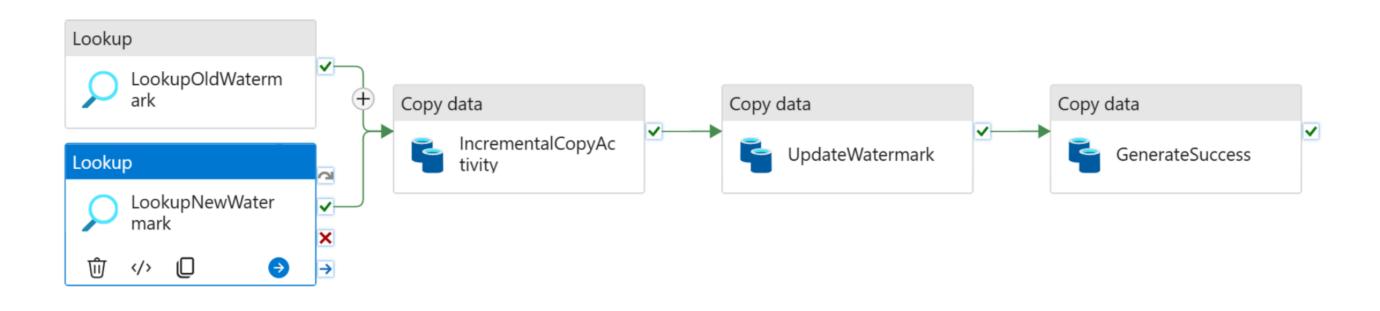
☐ PipelineCopyAllTables > ☐ ForEachTable

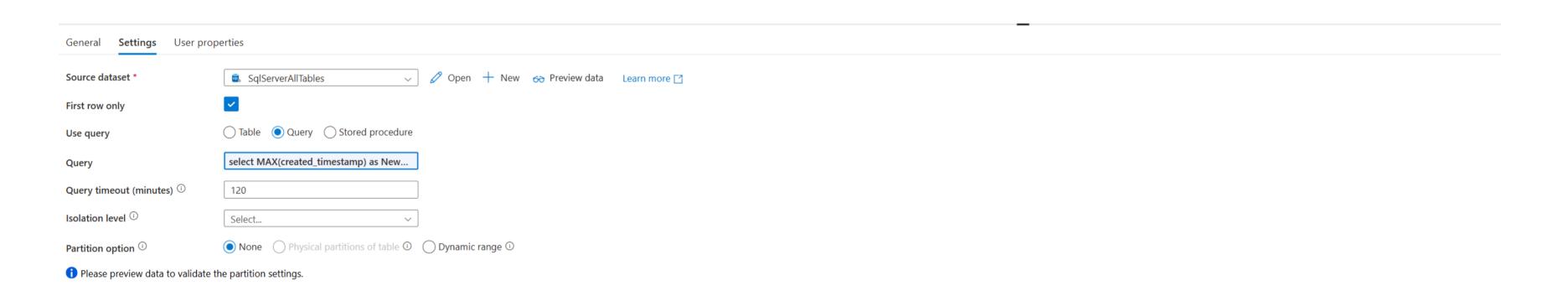


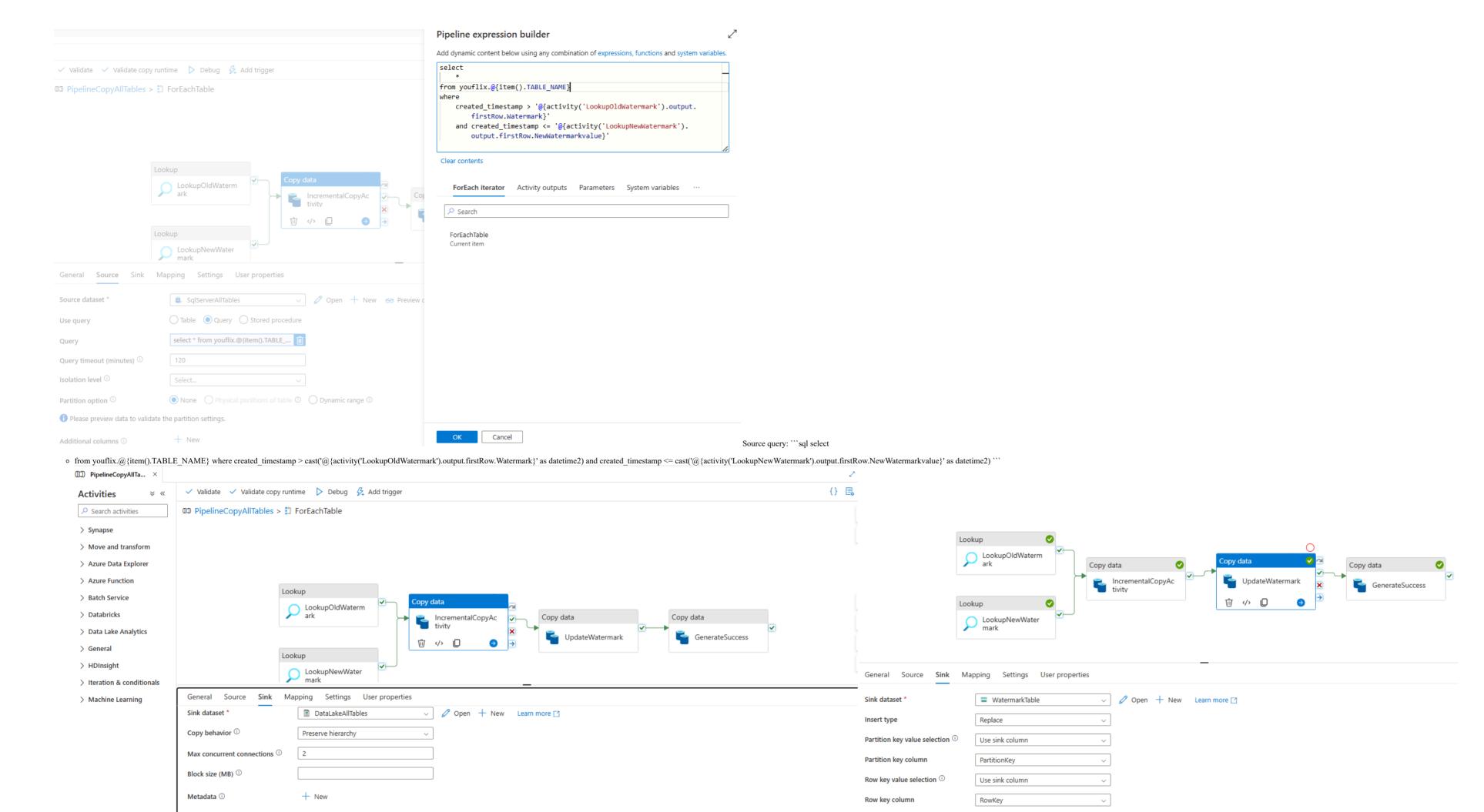




DD PipelineCopyAllTables > D ForEachTable







Write batch timeout

Max concurrent connections ①

Write batch size

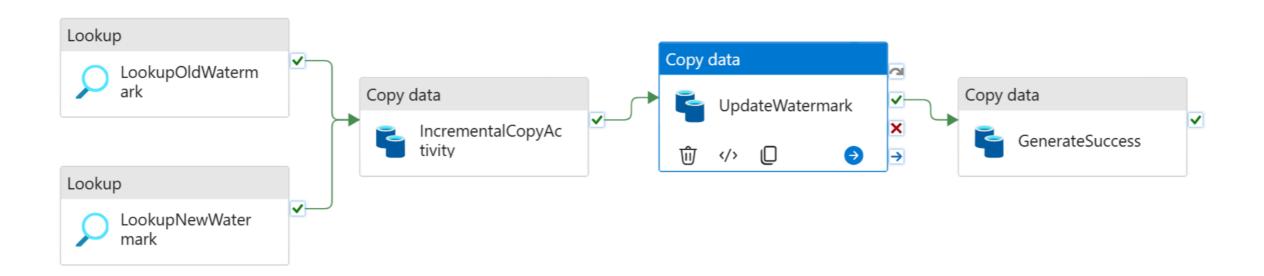
10000

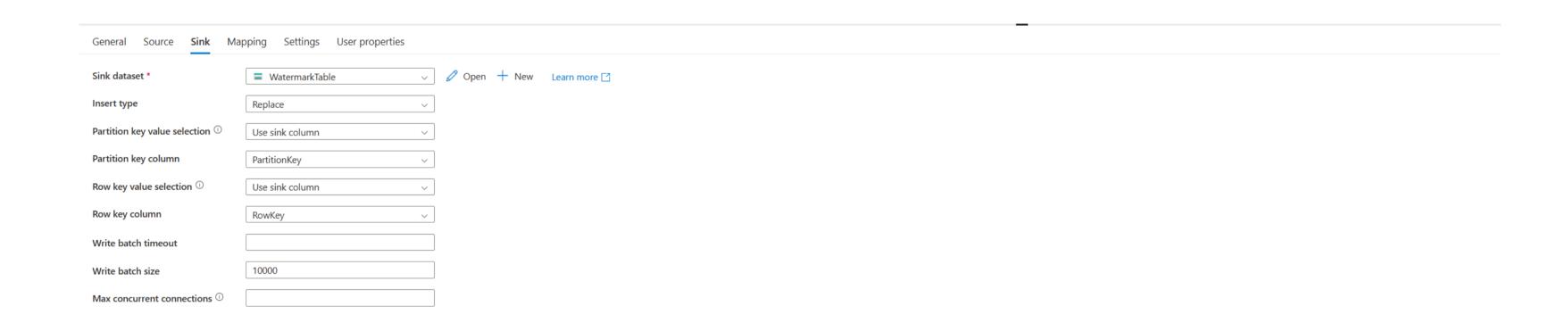
Quote all text

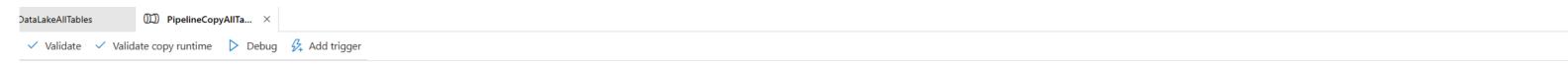
File extension ①

Max rows per file ①

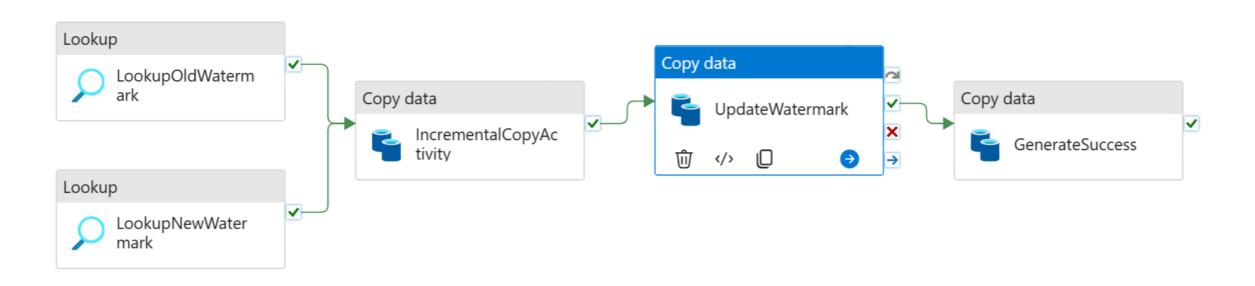
@concat('/youflix\_', item().TABLE\_NA...

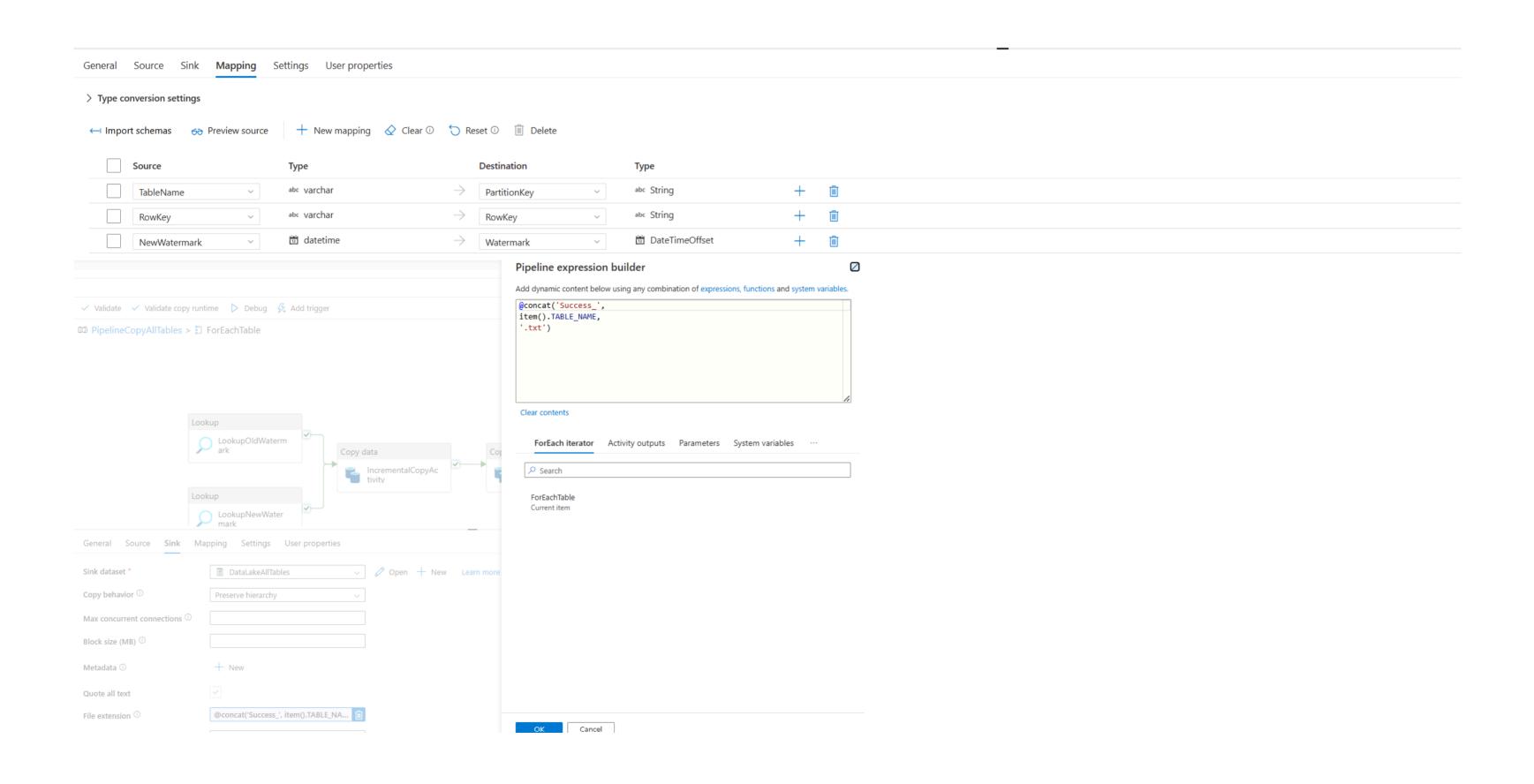


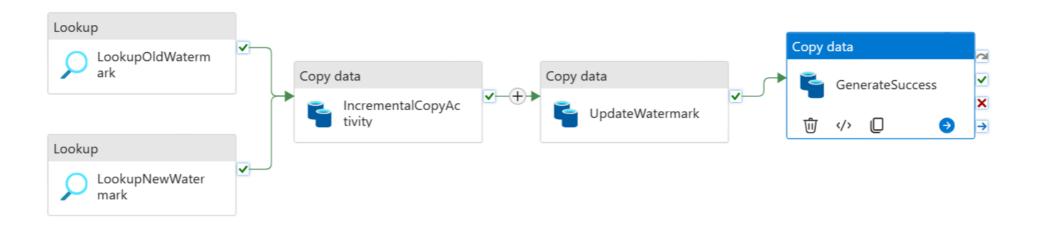


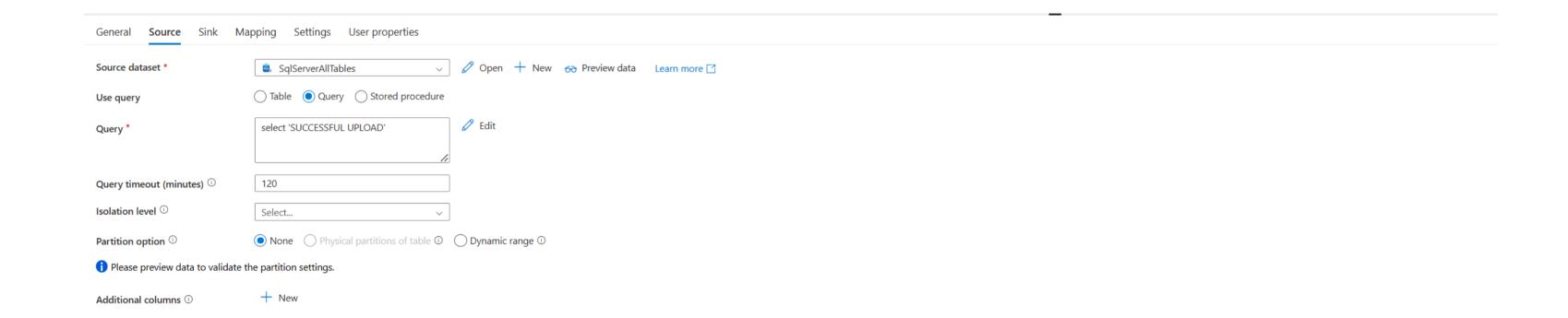


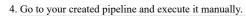
DD PipelineCopyAllTables > D ForEachTable













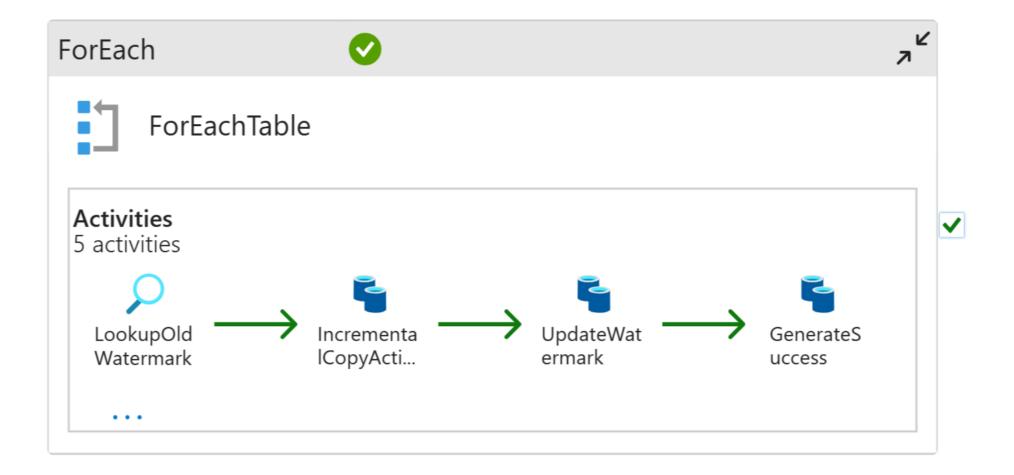












Monitor in Az

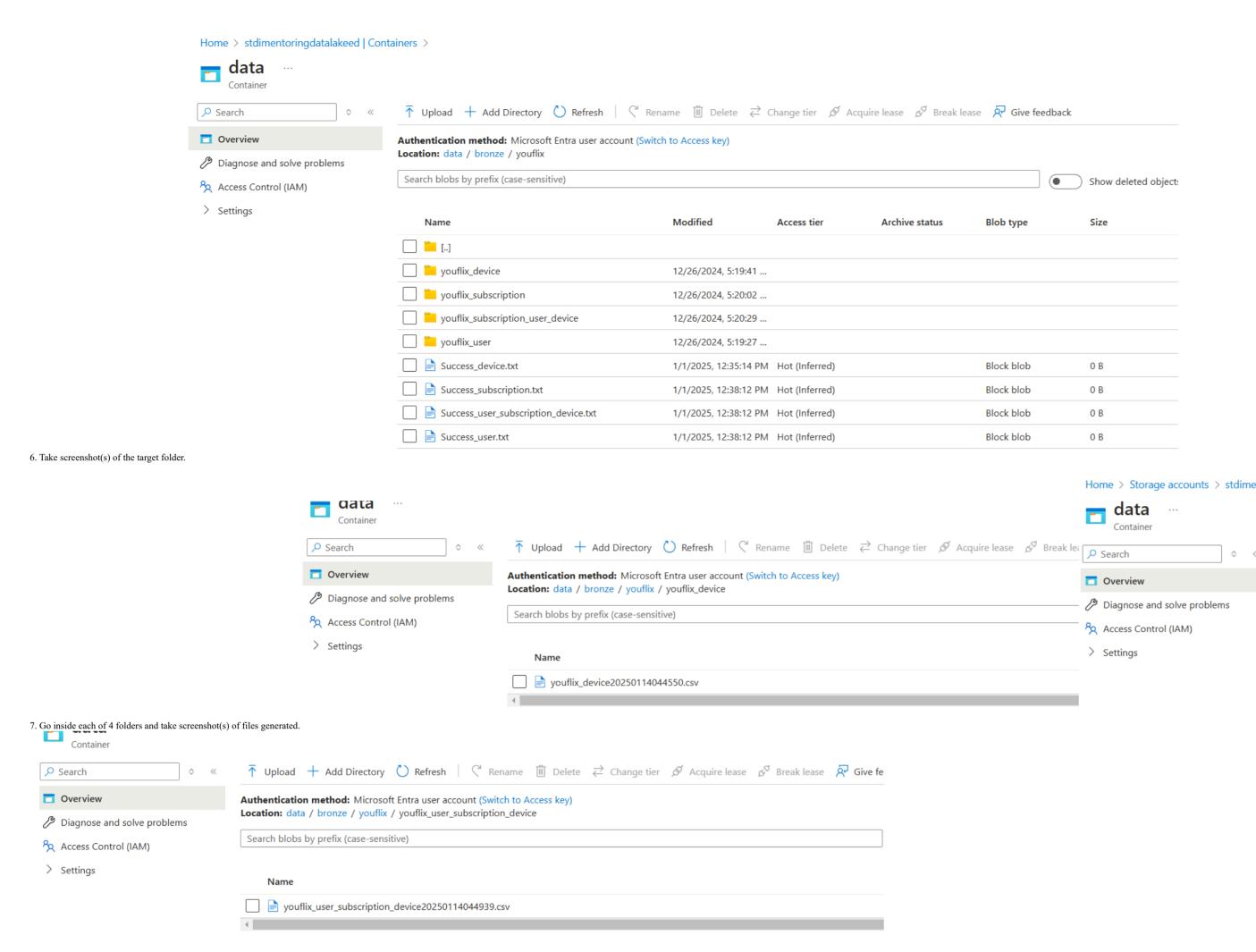
## **Activity runs**

Pipeline run ID 08d1edaf-0e9a-4953-a77a-514d19d2a3b1

All status V List V

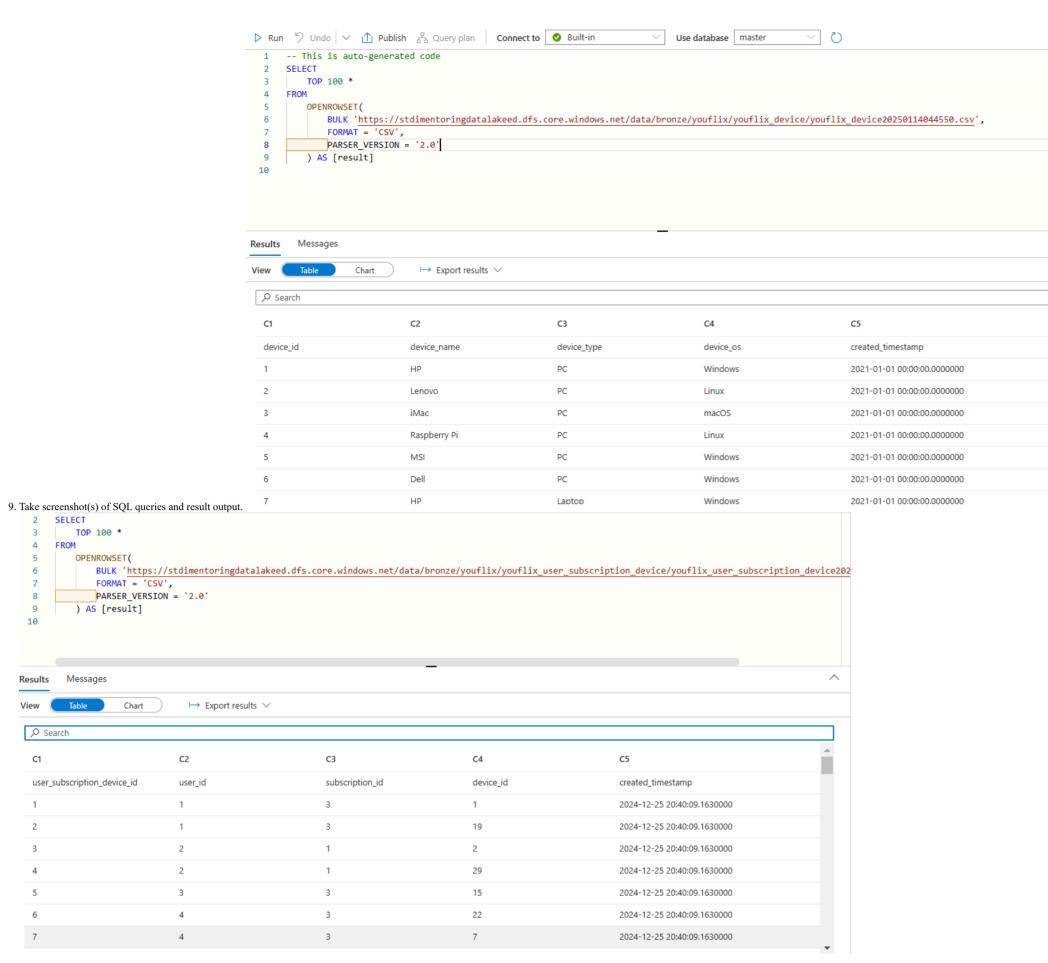
Showing 1 - 16 items								
Activity name ↑↓	Activity status ↑↓	Activity type ↑↓	Run start ↑↓	Duration ↑↓	Integration runtime $\uparrow \downarrow$	User properties $\uparrow \downarrow$	Activity run ID ↑↓	Log
ForEachTable	Succeeded	ForEach	12/30/2024, 1:46:12 PM	1m 2s			4928aacd-996e-4998-a3e8-2038a1935250	
LookupOldWatermark	✓ Succeeded	Lookup	12/30/2024, 1:46:13 PM	11s	IntegrationRuntime1		54a1a2a3-48ba-42e1-b064-c62d3d1fe4d4	
Lookup Old Watermark	✓ Succeeded	Lookup	12/30/2024, 1:46:13 PM	19s	IntegrationRuntime1		b1278608-1823-4ea4-a6ba-2d8b0187a2bb	
LookupOldWatermark	✓ Succeeded	Lookup	12/30/2024, 1:46:13 PM	11s	IntegrationRuntime1		9eacdaf5-93aa-4774-a8d5-3450fc018ee3	
LookupNewWatermark	✓ Succeeded	Lookup	12/30/2024, 1:46:13 PM	13s	IntegrationRuntime1		df9355be-e576-4f9a-8898-22e93bfbd288	
LookupNewWatermark	✓ Succeeded	Lookup	12/30/2024, 1:46:13 PM	11s	IntegrationRuntime1		d000f276-f483-4a09-a586-f0f431834071	
LookupNewWatermark	✓ Succeeded	Lookup	12/30/2024, 1:46:13 PM	11s	IntegrationRuntime1		bc3c6bea-7ed5-4bee-950f-5a837b89b22b	
IncrementalCopyActivity	✓ Succeeded	Copy data	12/30/2024, 1:46:25 PM	9s	IntegrationRuntime1		c1822c2d-3a6e-4e63-a577-b6e8a59372e8	
IncrementalCopyActivity	✓ Succeeded	Copy data	12/30/2024, 1:46:27 PM	8s	IntegrationRuntime1		62975e9a-9bc8-40cc-a1c8-dee18e4708ce	
IncrementalCopyActivity	✓ Succeeded	Copy data	12/30/2024, 1:46:33 PM	13s	IntegrationRuntime1		90f29655-394e-477c-830a-88cf2e5168a3	
UpdateWatermark	✓ Succeeded	Copy data	12/30/2024, 1:46:36 PM	15s	IntegrationRuntime1		671ed9b1-0769-42c4-9fe3-d4ba8a914679	
UpdateWatermark	✓ Succeeded	Copy data	12/30/2024, 1:46:36 PM	16s	IntegrationRuntime1		4afc7ad7-7bb3-4b1b-bbdf-feb033902f52	
UpdateWatermark	✓ Succeeded	Copy data	12/30/2024, 1:46:48 PM	11s	IntegrationRuntime1		820bb6e2-93c3-4533-a7a3-330081cce447	
GenerateSuccess	✓ Succeeded	Copy data	12/30/2024, 1:46:52 PM	7s	IntegrationRuntime1		8336cd7f-5f3a-4ca2-8560-1945b9068bcf	

5. Once the job succeeds, check bronze/youflix folder, it should contain 4 folders and Success.csv file.

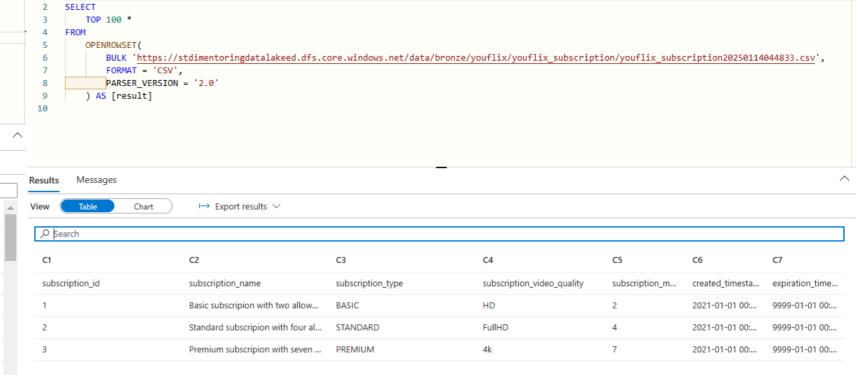


8. In Synapse Workspace, navigate to Data section, find in Linked tab your container, open bronze/youflix and select top 10 rows for each file using SQL queries.

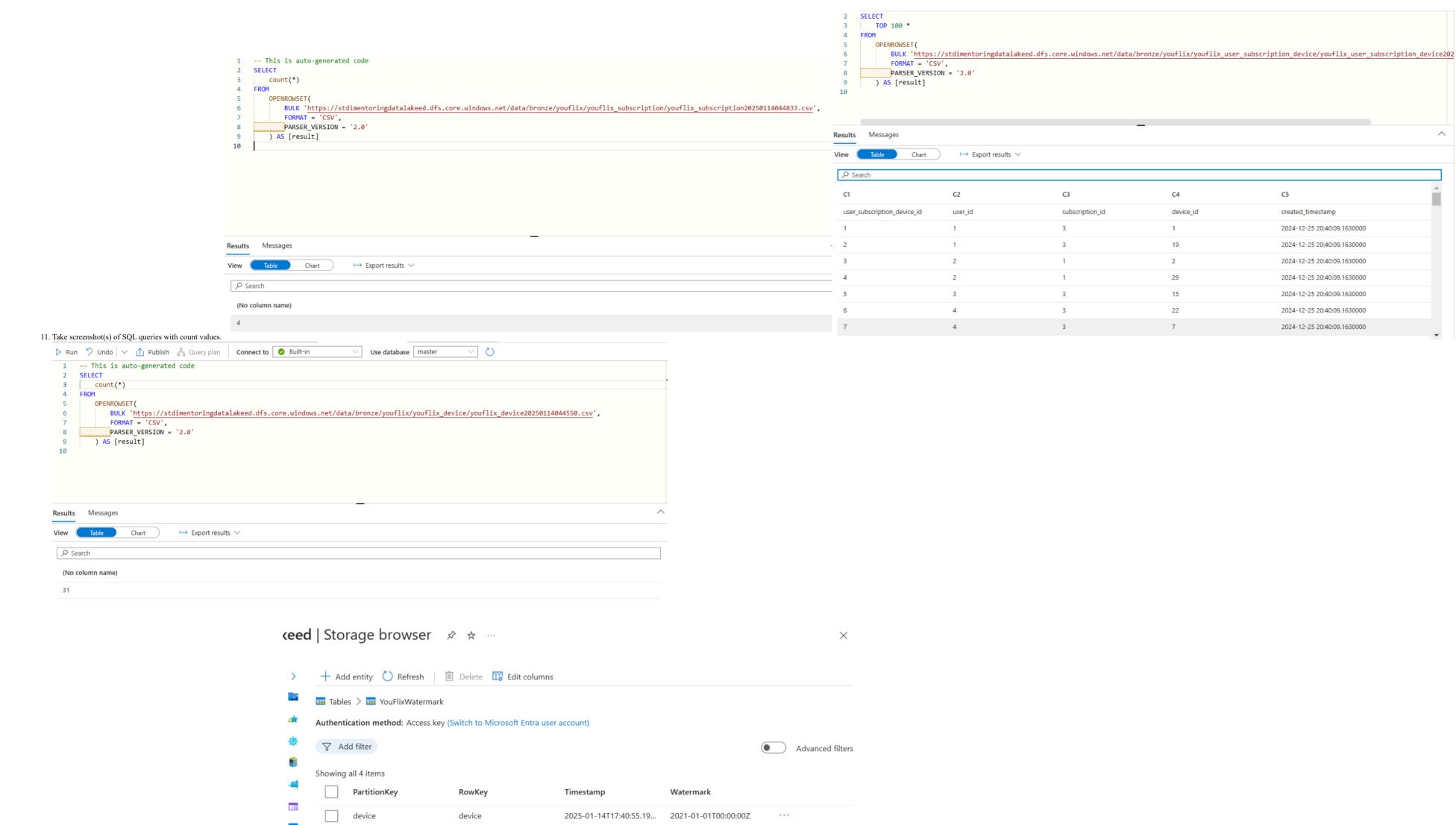
Tupload     Tupload	+ Add Directory	Refresh	Ç⁴ Renam	e 🗓 Delete	Ø Acquire lease	్లర Break lease	₽ Give
Authenticati	on method: Microso	ft Entra user ac	count (Switch to	Access key)			
	ta / bronze / youflix			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Search blob	s by prefix (case-sens	itive)					



10. In Synapse Workspace, navigate to Data section, find in Linked tab your container, open bronze/youflix and check number of rows for each file using SQL query.



1 -- This is auto-generated code



2025-01-14T17:41:05.24... 2021-01-01T00:00:00Z

2025-01-14T17:41:14.89... 2021-01-01T00:00:00Z

C5

created\_timestamp

2024-12-25 20:40:09.1630000

2024-12-25 20:40:09.1630000 2024-12-25 20:40:09.1630000

2024-12-25 20:40:09.1630000

2024-12-25 20:40:09.1630000

2024-12-25 20:40:09.1630000 2024-12-25 20:40:09.1630000

- 12. Go to your Azure Table and take a screenshot of new watermark values.
- 13. Without changing source data, execute your pipeline one more time.
- 14. In Synapse Workspace, navigate to Data section, find in Linked tab your container, open bronze/youflix and check number of rows for each newly loaded file using SQL query.

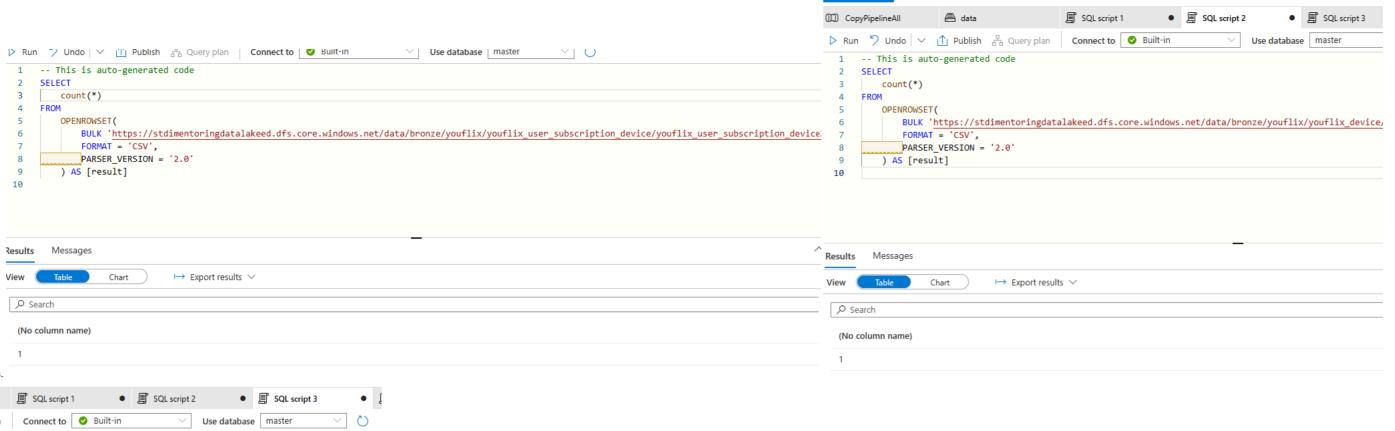
subscription

user

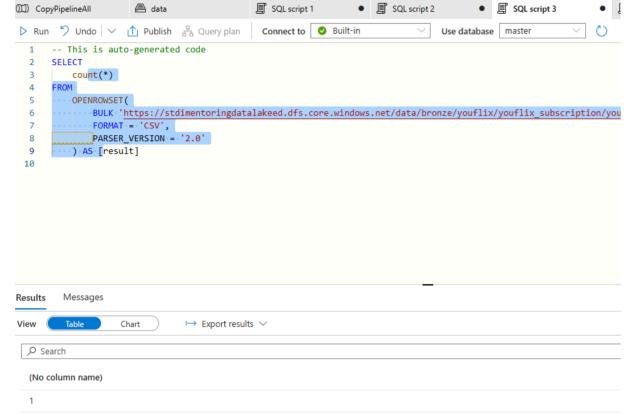
subscription

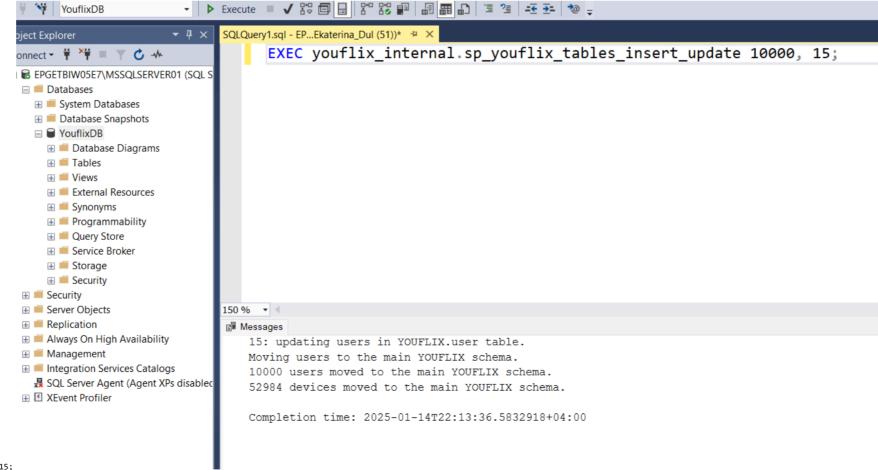
user\_subscription\_device user\_subscription\_device 2025-01-14T17:41:25.11... 2021-01-01T00:00:00Z

user



15. Take screenshot(s) of SQL queries with count values.

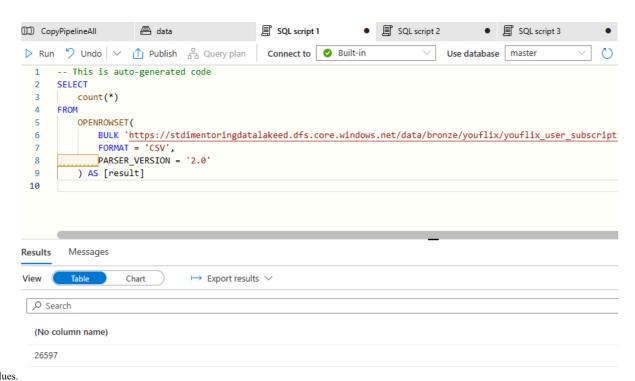




16. Connect to MS SQL Server YouFlixDB database and run the following command: sql EXEC youflix\_internal.sp\_youflix\_tables\_insert\_update 10000, 15;

17. Execute pipeline manually again.

18. In Synapse Workspace, navigate to Data section, find in Linked tab your container, open bronze/youflix and check number of rows for each newly loaded file using SQL query.



19. Take screenshot(s) of SQL queries with count values.

