

[illegible]

Before the Data Refresh:

Query 1 ✕

▶ Run ☐ Cancel query ⬇ Save query ⬇ Export data as ▾ Show only Editor

```
1 select TripID, Passenger_Count, Fare_Amount from [dbo].[RawDataSet]
2 where tripID in ('29989', '29990', '29991');
```

Results Messages

TripID	Passenger_Count	Fare_Amount
29989	1	9.0000
29990	1	32.0000
29991	1	9.0000

Step 2: The new CSV file is manually changed in the Blob Storage:

It's essential to handle the deletion of the old file in the blob storage before passing the new file. However, since there is no primary key in the source file and changes are made manually for data refresh execution, it becomes challenging to track changes added before pre-processing, hence we directly upload the new file to the blob storage.

Microsoft Azure

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DEFAULT DIRECTORY

Home > 7275datastore | Containers >

7275datastore

Container

⬅

⬆ Upload

⬇ Add Directory

🔄 Refresh

🔄 Rename

🗑 Delete

↔ Change tier

🔑 Acquire lease

🔑 Break lease

🗨 Give feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Manage ACL

Access policy

Properties

Metadata

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

Location: 7275datastore / ProcessedDataSet

☐ Show deleted objects

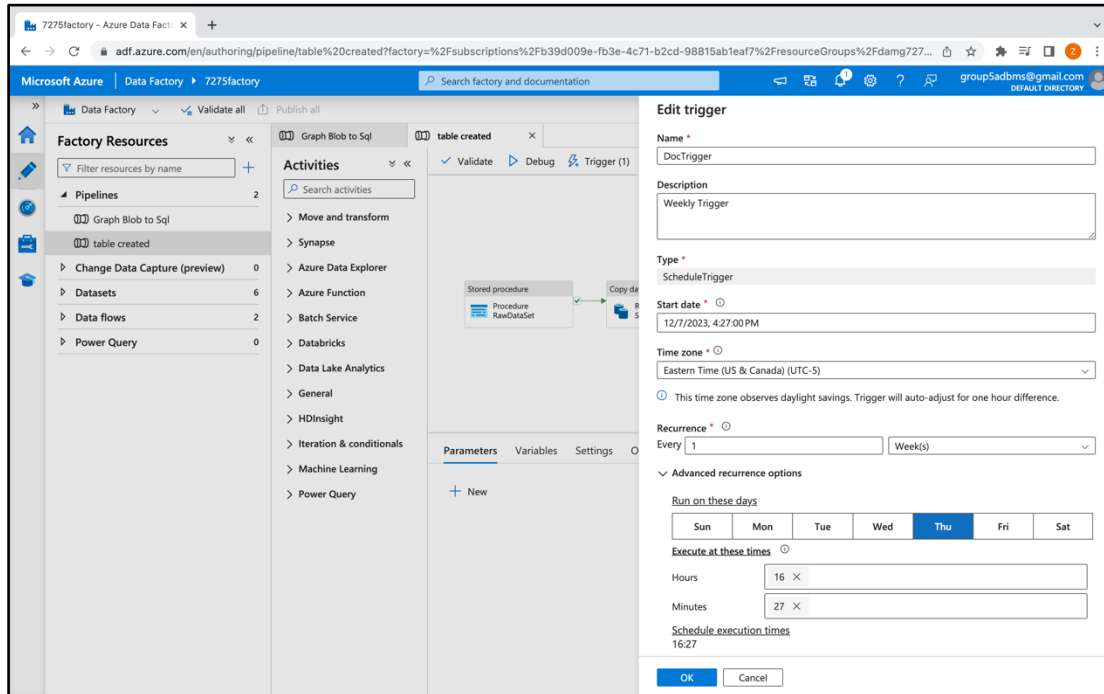
Name	Modified	Access tier	Archive status	Blob type	Size	Lease state	
<input type="checkbox"/> [.]							...
<input type="checkbox"/> Locationdim.csv	11/18/2023, 2:25:41 PM	Hot (Inferred)		Block blob	10.23 KiB	Available	...
<input type="checkbox"/> RawDataSet.csv	12/7/2023, 4:24:33 PM	Hot (Inferred)		Block blob	3.34 MiB	Available	...

Prerequisite for Step 3: The pipelines should be designed to empty the tables before new data is inserted.

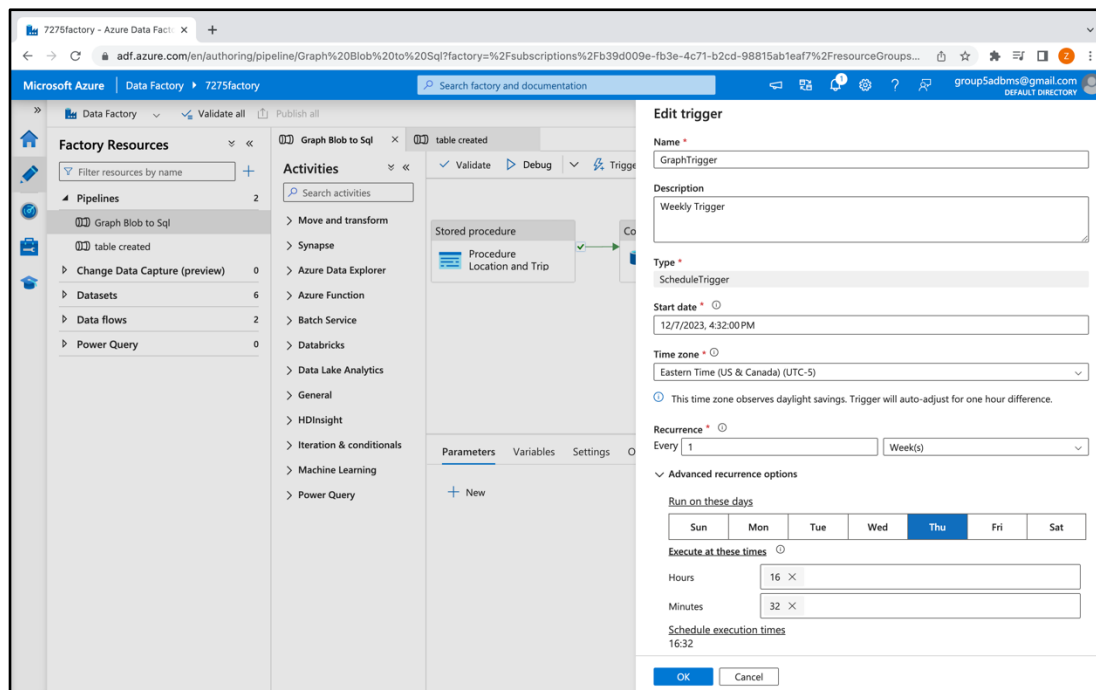
```
Run Cancel Disconnect Change Database: adbms_db Estimated Plan Enable Actual Plan Parse Enable SQLCMD
1 SET ANSI_NULLS ON
2 GO
3 SET QUOTED_IDENTIFIER ON
4 GO
5
6 -- Create the stored procedure
7 ALTER PROCEDURE [dbo].[Procedure_GraphTables]
8 AS
9 BEGIN
10     -- Create Location Node Table if it does not exist
11     IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[dbo].[Location]') AND type in (N'U'))
12     BEGIN
13         CREATE TABLE [dbo].[Location] (
14             LocationID INT PRIMARY KEY,
15             Borough NVARCHAR(100),
16             Zone NVARCHAR(100),
17             service_zone NVARCHAR(100)
18         ) AS NODE;
19     END
20     ELSE
21     BEGIN
22         -- Delete data from the table if it exists
23         DELETE FROM [dbo].[Location];
24     END
25
26     -- Create Trip Edge Table if it does not exist
27     IF NOT EXISTS (SELECT * FROM sys.objects WHERE object_id = OBJECT_ID(N'[dbo].[Trip]') AND type in (N'U'))
28     BEGIN
29         CREATE TABLE [dbo].[Trip] (
30             TripID INT PRIMARY KEY,
31             Passenger_Count INT,
32             Trip_Distance FLOAT
33             -- The $from_id and $to_id columns are implicit in EDGE tables.
34         ) AS EDGE;
35     END
36     ELSE
37     BEGIN
38         -- Delete data from the table if it exists
39         DELETE FROM [dbo].[Trip];
40     END
41
42     -- Add more table creation logic here if needed
43 END;
44 GO
45
```

Step 3: Now we schedule our two triggers to run the (document + relational) and (graph) pipelines, respectively, one after the other at intervals of 5 minutes on every Thursday on weekly basis at 04:27 PM and 04:32 PM.

Trigger for Document and Relational Model Data Pipeline:



Trigger for Graph Model Data Pipeline:



Triggers are running successfully:

7275factory - Azure Data Factory | x

adf.azure.com/en/monitoring/triggerruns?factory=%2Fsubscriptions%2Fb39d009e-fb3e-4c71-b2cd-98815ab1eaf7%2FresourceGroups%2Fdmg7275%2Fproviders%2Fmicrosoft%2Fdatafactory%2F7275factory

Microsoft Azure | Data Factory | 7275factory | Search factory and documentation | group5adbm@gmail.com | DEFAULT DIRECTORY

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click [here](#) to get started with Fabric Data Factory!

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Trigger runs

All Schedule Tumbling window Storage events Custom events Refresh Edit columns

Local time: Last 24 hours Trigger name: All Status: All Runs: Latest runs Export to CSV

Showing 1 - 9 items

Trigger name	Trigger type	Trigger time	Status	Pipelines	Run	Message	Properties	Run ID
GraphTrigger	Schedule trigger	12/7/2023, 1:32:00 P	Succeeded	1	Original			0858499f
DocTrigger	Schedule trigger	12/7/2023, 1:27:00 P	Succeeded	1	Original			0858499f
GraphTrigger	Schedule trigger	12/7/2023, 1:15:00 P	Succeeded	1	Original			0858499f
DocTrigger	Schedule trigger	12/7/2023, 1:10:00 P	Succeeded	1	Original			0858499f
GraphTrigger	Schedule trigger	12/7/2023, 12:15:59	Succeeded	1	Original			0858499f
GraphTrigger	Schedule trigger	12/7/2023, 11:16:00	Succeeded	1	Original			0858499f
GraphTrigger	Schedule trigger	12/7/2023, 10:16:00	Succeeded	1	Original			0858499f
GraphTrigger	Schedule trigger	12/7/2023, 9:16:00 A	Succeeded	1	Original			0858499f
GraphTrigger	Schedule trigger	12/7/2023, 8:16:00 A	Succeeded	1	Original			0858499f

Step 4: After the successful completion of the pipelines, we check the output for the 'After' state of the updated rows and new rows:

Rows of tripID 29989, 29990, and 29991 have been successfully updated

SQLQuery_1 - adbmsg...(adbms) ●

Run Cancel Disconnect Change

Database: adbms_db

Estimate

```
1 select TripID, Passenger_Count, Fare_Amount from [dbo].[RawDataSet]
2 where tripID in ('29989','29990','29991');
3
```

Results Messages

	TripID	Passenger_Count	Fare_Amount
1	29989	3	12.0000
2	29990	3	33.0000
3	29991	3	19.0000

New rows are added in the output Table:

Run Cancel Disconnect Change Database: adbms_db Estimated Plan Enable Actual Plan Parse Enable SQLCMD To Notebook

```
1 Select * from RawDataSet where TripID in ('29992','29993','29994','29995','29996','29997','29998','30000')
```

Results Messages

	TripID	DateTimeID	TransactionID	RatecodeID	Serviceprovider	Pickup_Datetime	Dropoff_Datetime	Passenger_Count	Trip_Distance	Store_And_Fwd_Flag
1	29992	29992	29992	1	Lyft	2020-03-10T14:24:00	2020-03-10T14:29:00	0	0.1000	N
2	29993	29993	29993	2	Lyft	2021-08-12T14:24:00	2021-08-12T14:44:00	1	1.2600	N
3	29994	29994	29994	1	Lyft	2022-05-19T14:24:00	2022-05-19T14:32:00	2	1.8000	N
4	29995	29995	29995	1	Juno	2020-03-19T10:29:00	2020-03-19T11:02:00	1	1.4200	N
5	29996	29996	29996	1	Juno	2021-06-06T17:10:00	2021-06-06T17:23:00	1	0.6000	N
6	29997	29997	29997	1	Via	2022-09-30T14:46:00	2022-09-30T14:58:00	1	2.3700	N
7	29998	29998	29998	1	Via	2022-05-11T15:24:00	2022-05-11T15:27:00	1	0.4900	N
8	30000	30000	30000	1	Via	2022-12-23T00:07:00	2022-12-23T00:15:00	1	1.1600	N

Since our database is static, the above steps outline our approach to achieving data refresh.