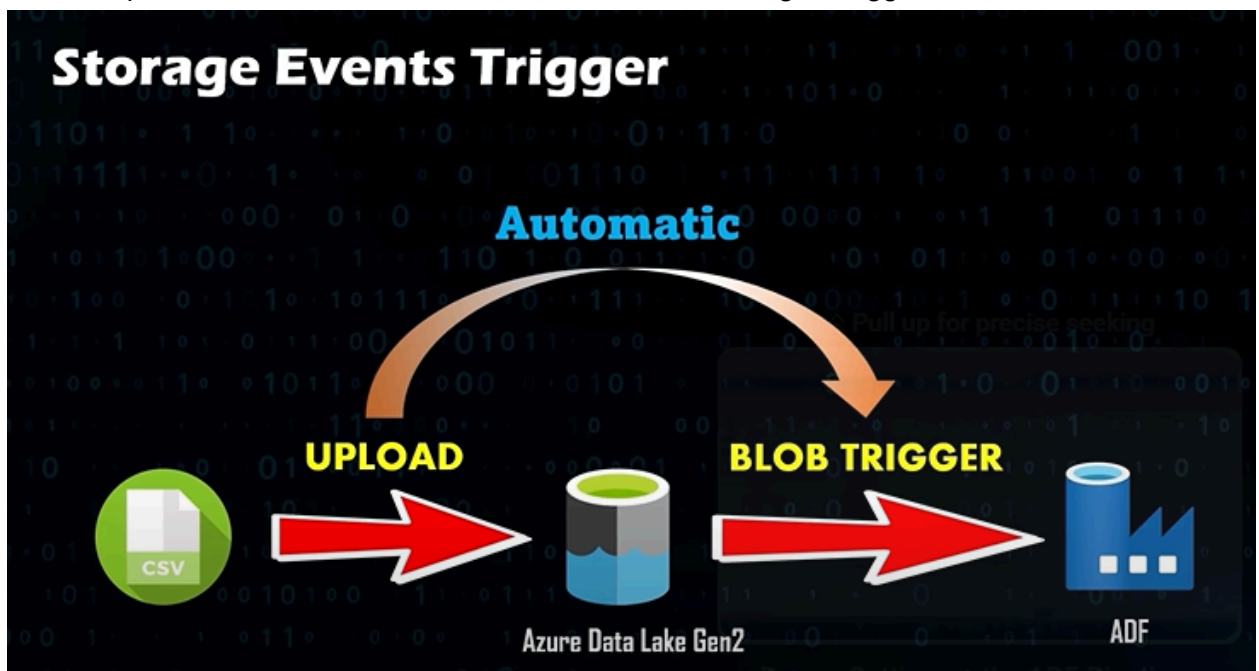
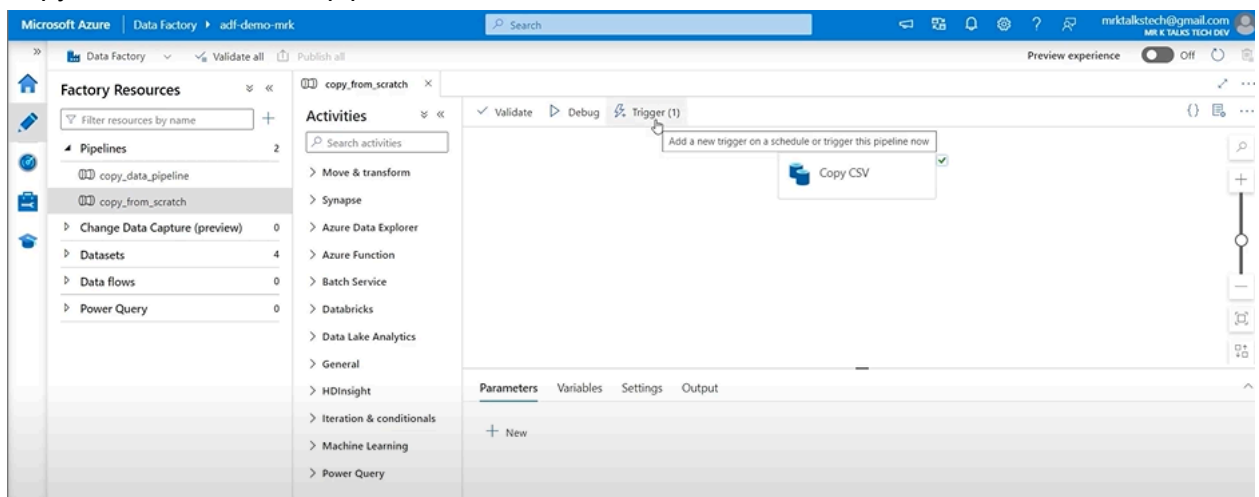


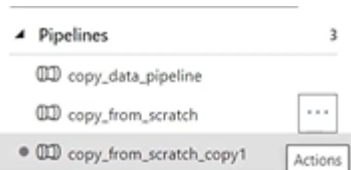
8. Setup a BLOB Trigger

1. Blob trigger(storage event trigger) vs schedules trigger
2. In Storage event trigger....a pipeline is triggered only if there's any event occurs in the storage
3. For example whenever there is a new file in ADL then the it gets trigger



4. Lets see how we can config this trigger
5. Copy from scratch is the pipeline we have created





6. Now we'll clone this pipeline

we'll update the name

7. We'll create a new trigger type-storage events

also we need to specify

source ADL

8. The pipeline will get triggered if the path specified in

matches

Blob path begins with ⓘ

Blob path ends with ⓘ

.CSV

9. Here we have specified ..so if any file ends with .csv then this pipeline gets triggered

Event * ⓘ

☒ Blob created ☐ Blob deleted

Ignore empty blobs * ⓘ

☒ Yes ☐ No

Annotations

+ New

Start trigger ⓘ

☒ Start trigger on creation

Continue Cancel

10. Also we have to choose event_type
11. It gives us the matching files just for preview

Data preview

⚠ Make sure you have specific filters. Configuring filters that are too broad can match a large number of files created/deleted and may significantly impact your cost.

Event Trigger Filters

Container name: **source**

Starts with:

Ends with: **.csv**

2 blobs matched in "source" 🔄 Refresh

	Blob name
1	SampleCSVFile_11kb.csv
2	Schedule_trigger.csv

1 - 2 of 2 items

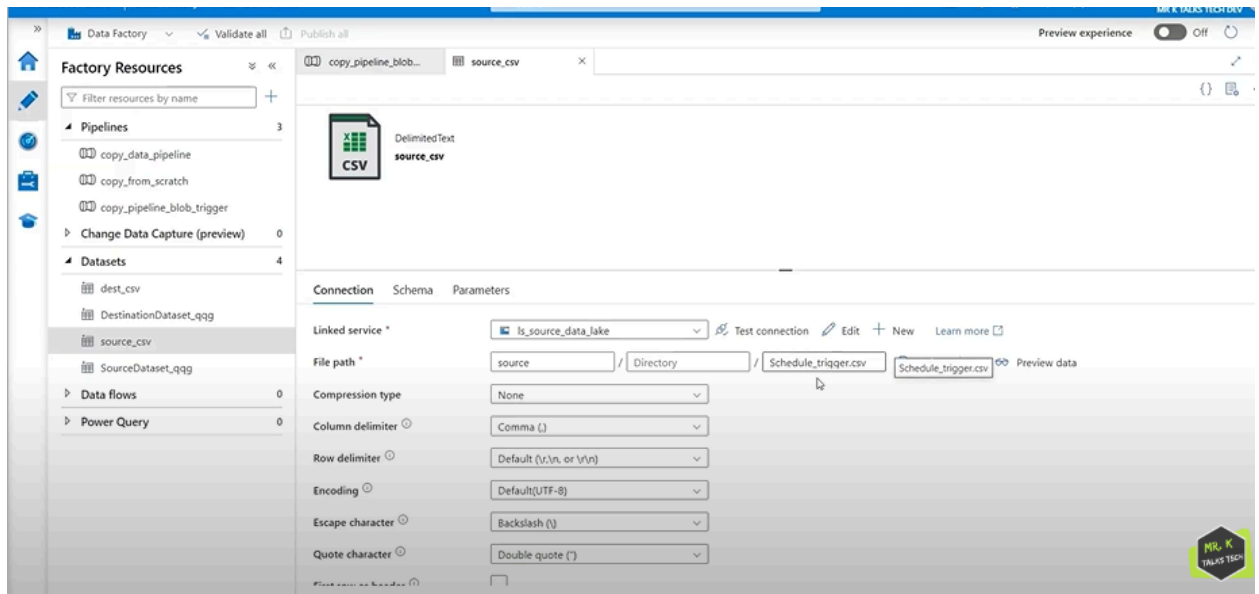
Continue Back

< Previous 1 Next >

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Cancel

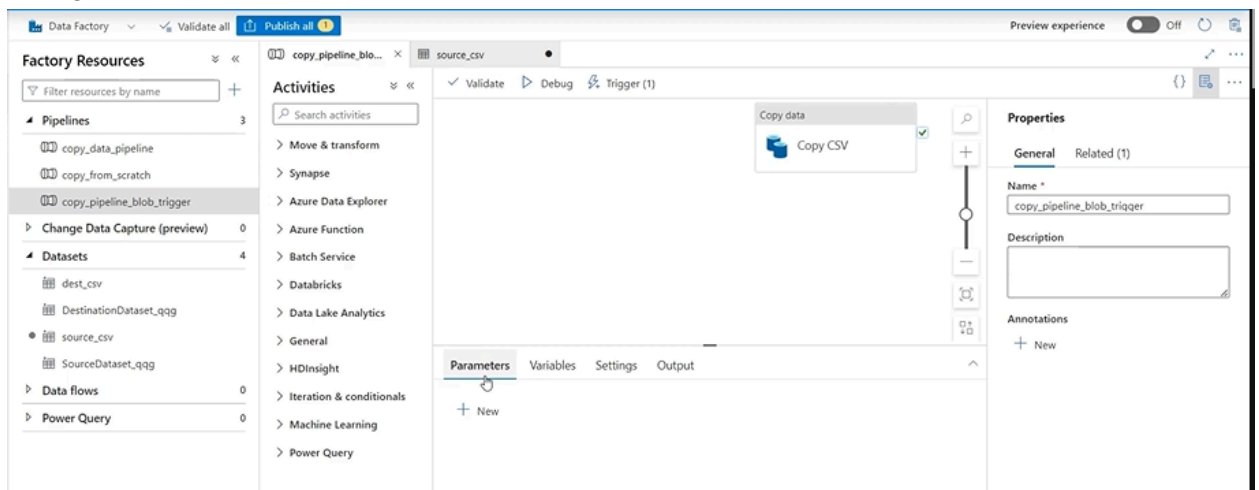
we create the event

12. Now instead of explicitly file name in the file path in our source in pipeline

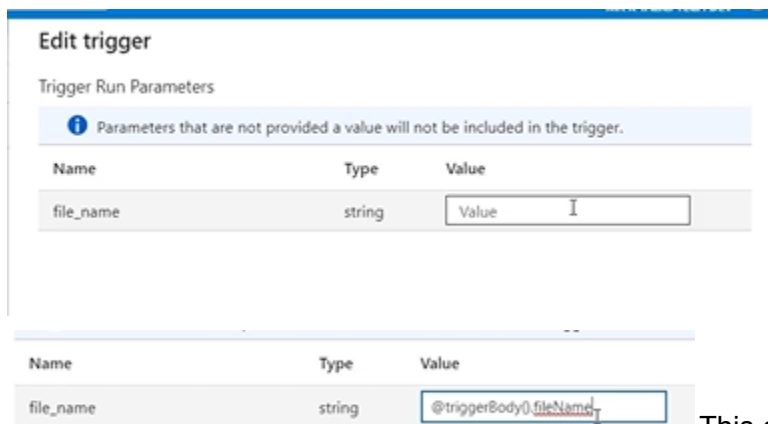
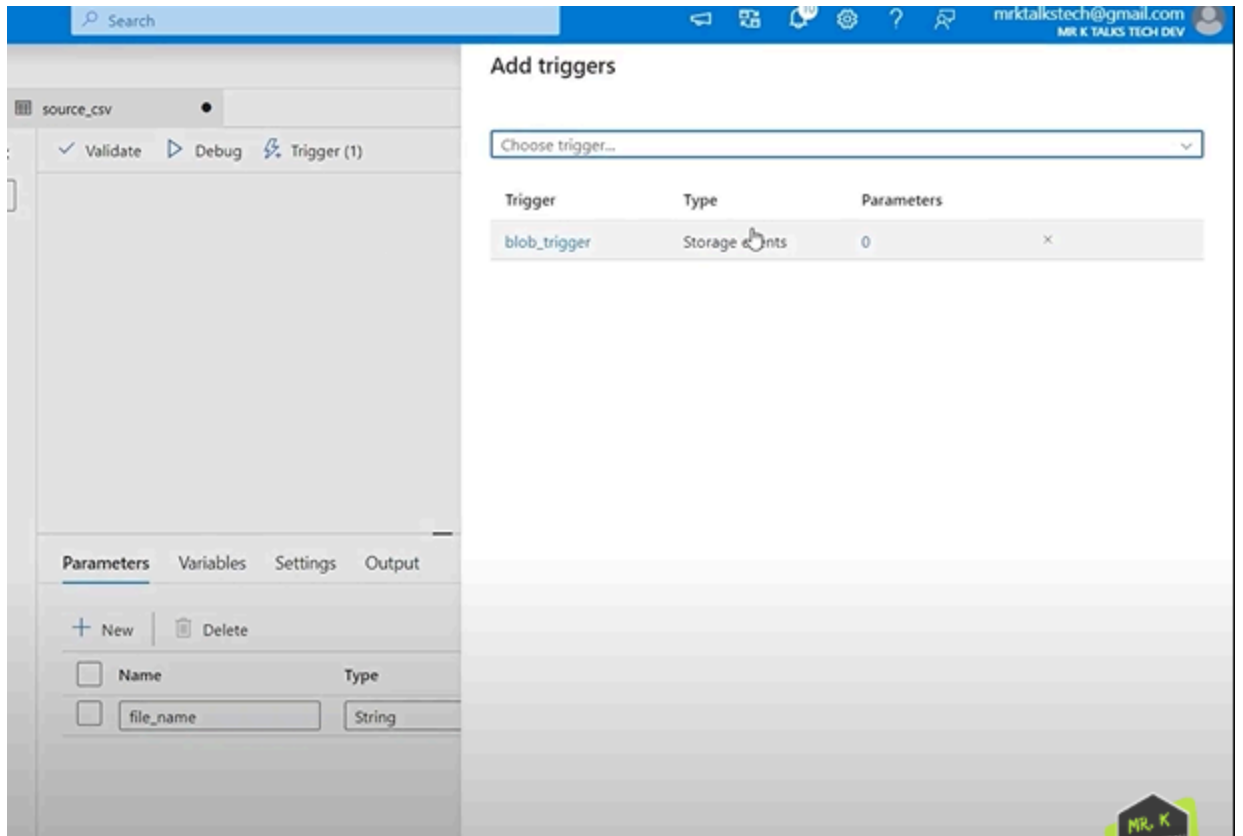


13. We'll pass the parameters ...to dynamically get the file name in file path

14. Now go to pipeline and click on white space



15. Here we can create the parameter by clicking new..and we gave name of parameter as file_name..now if we edit our bolb trigger..we can see parameters



This code will retrieve the file

name of the file that has triggered this event

16. Now after that..we go to source tab of our pipeline and add parameters for source dataset

General **Source** Sink Mapping Settings User properties

Source dataset * source_csv Open + New Preview data Learn more

Dataset properties ⓘ

Name	Value	Type
file_name_ds	Value	string

File path type ☒ File path in dataset ☐ Wildcard file path ☐ List of files ⓘ

Start time (UTC) End time (UTC)

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we have to select the dynamic content value and give these value

Pipeline expression builder

Add dynamic content below using any combination of expressions, functions and system variables.

`@pipeline().parameters.file_name`

[Clear contents](#)

Parameters System variables Functions Variables

+

file_name

General **Source** Sink Mapping Settings User properties

Source dataset * source_csv Open + New Preview data Learn more

Dataset properties ⓘ

Name	Value	Type
file_name_ds	<code>@pipeline().parameters.file_name</code>	string

17. Later we run the pipeline ...and the copy data activity copies data to dest ...as soon as we upload csv file to source ADL

9. Tumbling Window Trigger

Tumbling Window Trigger

This trigger runs a pipeline on a periodic time interval from a specified start time

Example: Setting up the tumbling trigger to run every 6 hours in a day

12 AM 6 AM 12 PM 6 PM 12 AM

- 1.
2. Whats the diff bw scheduled trigger and tumbling window trigger? Once check gemini
3. They both mainly dif in two things
4. In tumbling windows ..we can also triggers pipeline for the past days too
5. And also here we have dependency ..means 2nd trigger get active only after first trigger is completed
6. Practical
7. Here in our source Azure DL...we have source folder inside the source contaoner

Home > sourcedatalakemrk | Containers >

source ...

Container

Search

Upload + Add Directory Refresh Rename Delete Change tier Acquire lease Break lease Give feedback

Authentication method: Access key (Switch to Azure AD User Account)

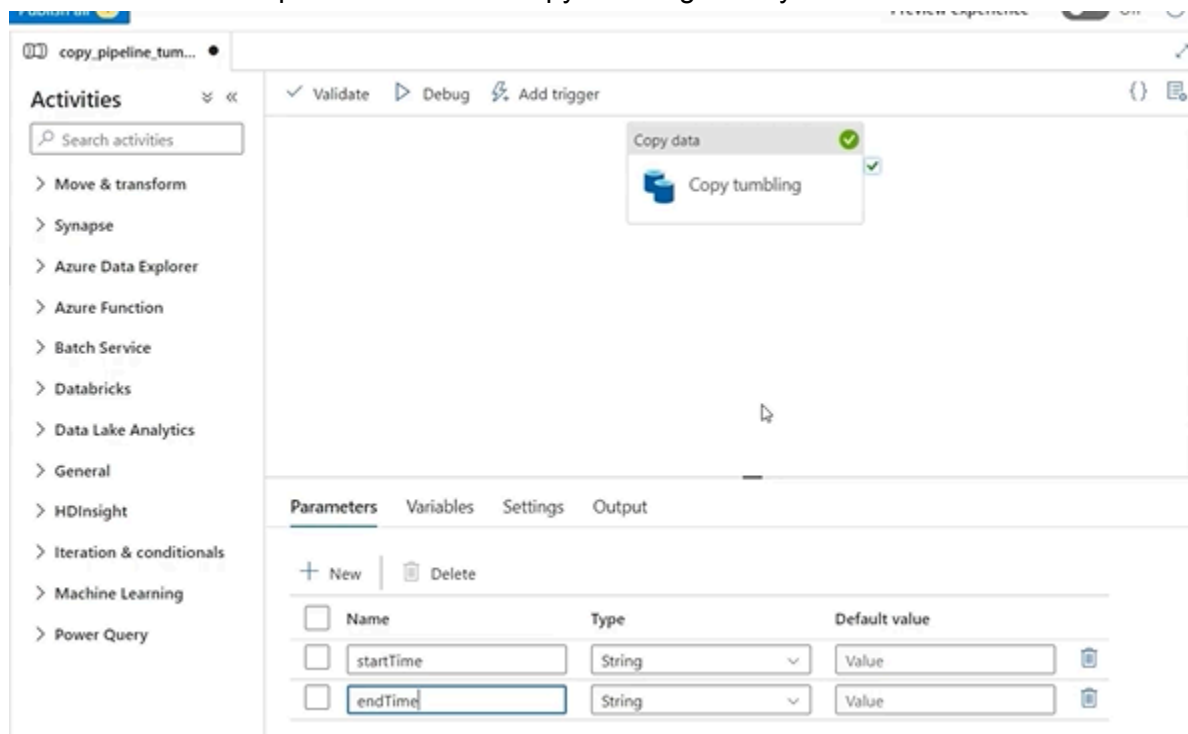
Location: source / source_tumbling

Search blobs by prefix (case-sensitive) Show deleted objects

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
[...]						...
test_file_1.csv	5/13/2023, 1:14:11 PM	Hot (Inferred)		Block blob	11 B	Available
test_file_2.csv	5/13/2023, 1:14:11 PM	Hot (Inferred)		Block blob	11 B	Available
test_file_3.csv	5/13/2023, 1:14:11 PM	Hot (Inferred)		Block blob	67 B	Available

8. Just see the video for demo
9. Implementing incremental load in tumbling window trigger

10. First we'll create two parameters in the copy tumbling activity



11. Now we'll add our new trigger..by providing required details for the trigger

The 'New trigger' dialog box is shown with the following details:

- Name ***: tumbling_trigger
- Description**: (empty)
- Type ***: Tumbling window
- Start Date (UTC) ***: 5/13/2023, 2:42:54 AM
- Recurrence ***: Every 5 Minute(s)
- ☐ Specify an end date
- Advanced**: (expanded)
- Annotations**: + New
- Start trigger**: ☒ Start trigger on creation

Buttons: OK, Cancel

12. And we get the parameters from our trigger using this script

New trigger

Trigger Run Parameters

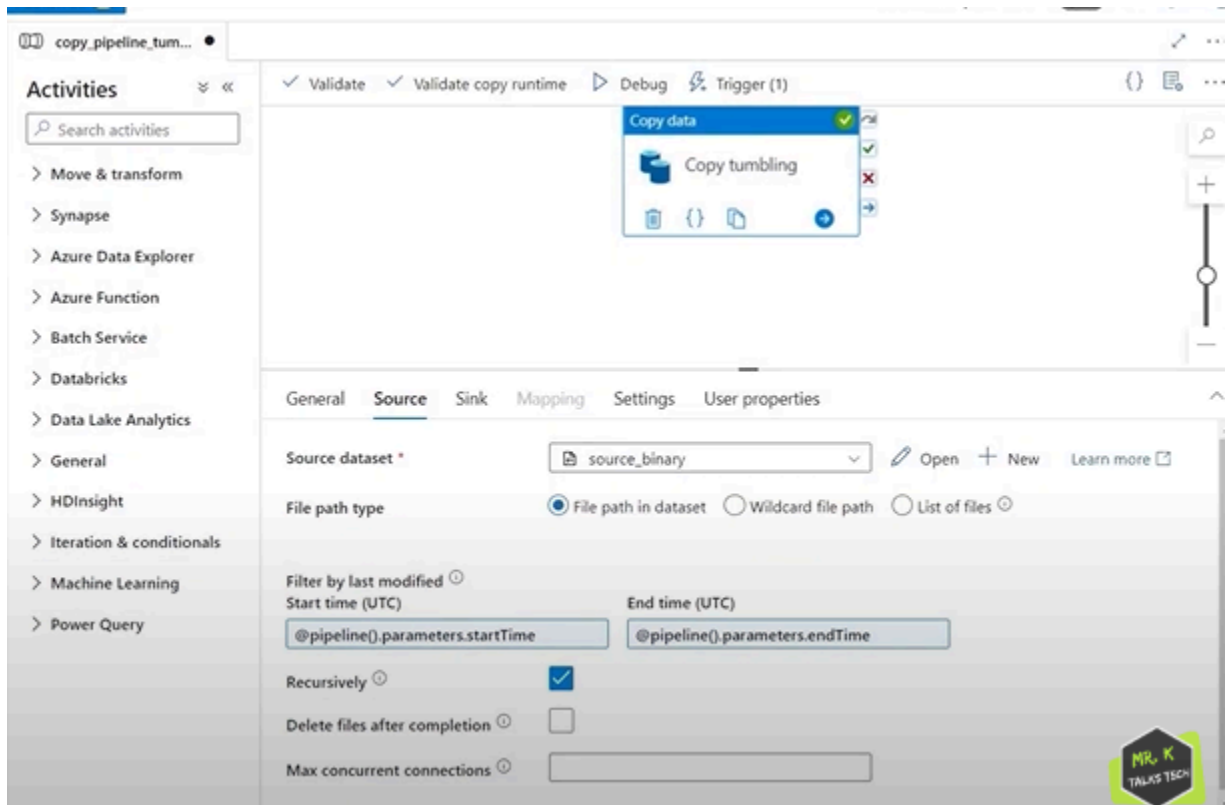
Parameters that are not provided a value will not be included in the trigger.

Name	Type	Value
startTime	string	@trigger().outputs.windowSt...
endTime	string	@trigger().outputs.windowEn...

Make sure to "Publish" for trigger to be activated after clicking "OK"

OK Cancel

13. Now in the source ..we'll give the starttime and end time value of last trigger

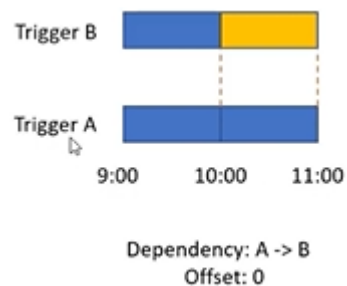


14. Now the pipeline will filter the files in the source based on this start time and end time

15. Means if a new file is added and its modified time lies in the start time and end time ...then this file will get copied

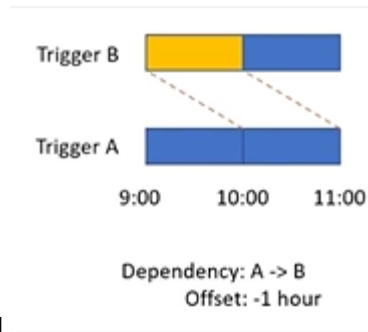
16. Now we'll publish the changes to save our work ...after that ..we'll test our pipeline by creating/uploading a new file

17. Lets understand dependency in Tumbling trigger



18. Dependency Offset = 0

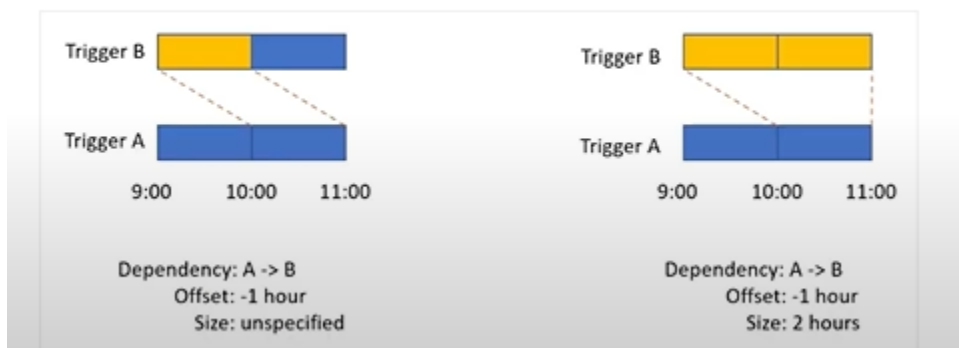
here both the triggers run at same time ...but at 10:00 trigger B will wait for trigger A to complete....basically trigger B is dependent on trigger A



19. Dependency Offset = -1
be dependent on Trigger A's 10:00 - 11:00

Here trigger B's 9:00 - 10:00 will

Dependency size



20.

10. Sending ADF Pipeline Alerts to MS teams

1.