Custom Learnings

Day 7

Azure Data Factory

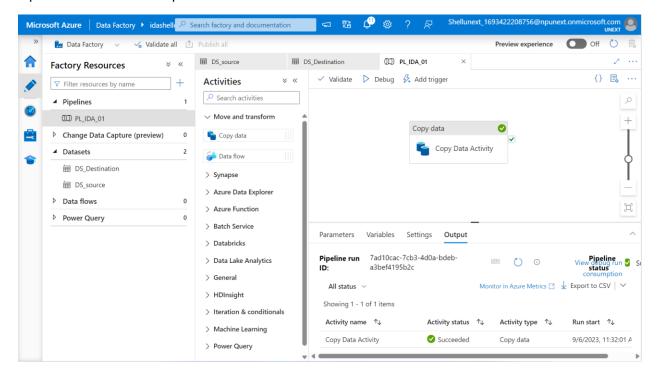
General Activities:

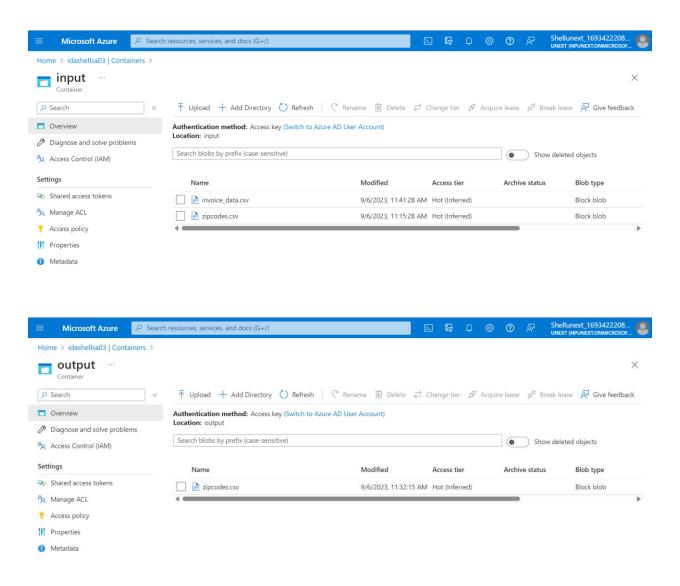
- 1. Append Variable: Supported only in array.
- 2. Set Variable: It is used to set/change the value of a variable.
- 3. Delete: Delete the values

Within a single pipeline we cannot have more than 40 activities. For this we can have execute pipeline activity. This is known as chained pipelines.

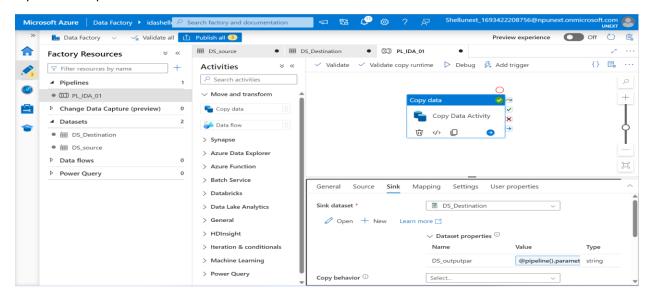
- 4. Lookup: To get the information about the table we can use Lookup activity.
- 5. System Variables: Used for audit purpose. When the pipeline runs and completes. We can create audit files and tables.
- 6. MetaData: To get the information about the data or files or folders like the size, name,etc.
- 7. Filter: To filter out the data based on some conditions.
- 8. Web Hook: To call an API, and perform crud operations.
- 9. Wait: To wait for sometime between the execution of two activities.

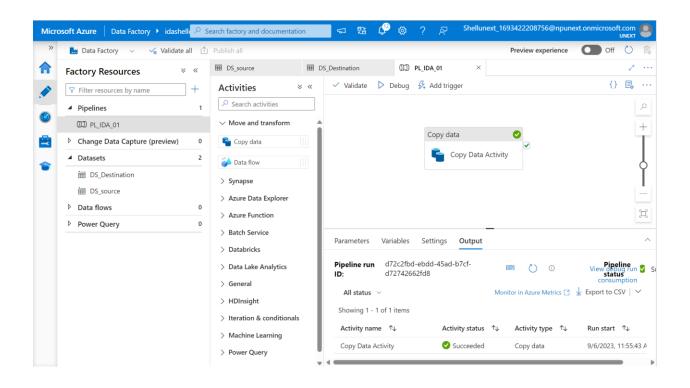
Pipeline creation without parameters:

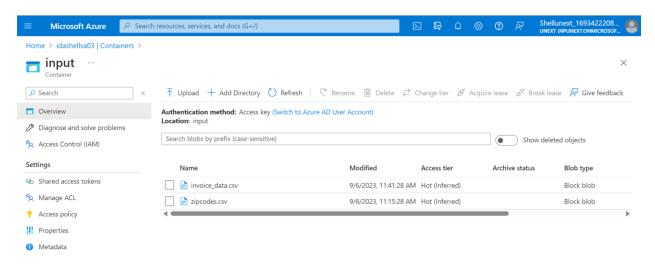


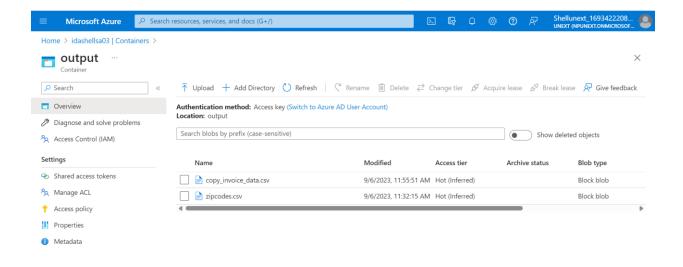


Pipeline with parameters:

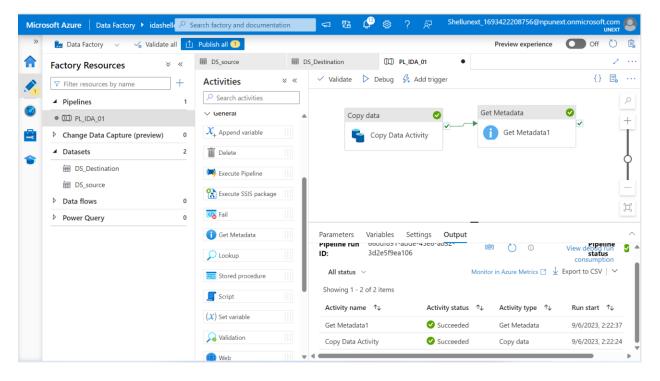


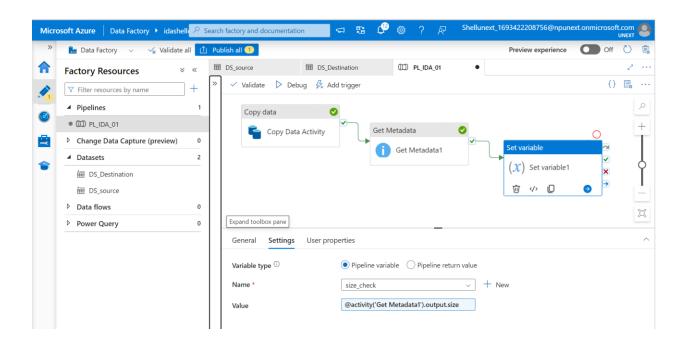


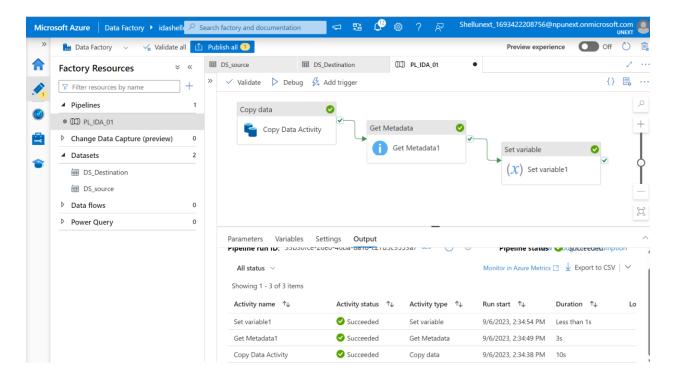




To get the meta data of input and output:







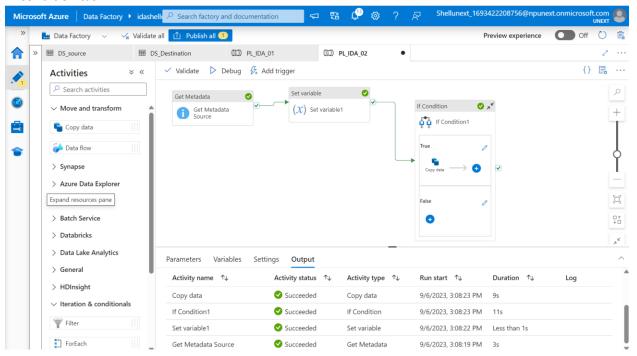
Triggers: Triggers are events or schedules that initiate the execution of data pipelines, activities, or data flows.

There are three types of triggers:

- 1. Scheduled Triggers: These triggers initiate the pipeline or activity execution based on a specified time and recurrence pattern.
- 2. Tumbling Window Triggers: These window triggers are a type of scheduled trigger used for time-based partitioning of data. Specify the window size and offset for partitioning data.
- 3. Storage Event Triggers: These triggers respond to events in azure blob storage or data lake storage, such as file creation, modification, or deletion. Define conditions based on the file path, size, or other attributes.

Monitor: To monitor the information about the trigger runs, pipeline runs, etc. We can filter the monitored logs based on success or failure and various other filters.

If condition task:



There will be more than one file in real world so we will not create if conditions for each and every file. This is a drawback of the above approach.

ForEach Activity:

We can process and check each and every file that was the disadvantage above in if-else condition.