**Activities in ADF:**

1. Get Meta Data Activity:

Using the Metadata activity in Azure Data Factory allows you to obtain schema and file information, such as column names and data types, from your data sources. This can be particularly useful for dynamic pipelines where you need to adapt to changing data structures. We can get the information of the respective Files and pass it into another activies.

2. Look Up Activity:

The Look Up activity in Azure Data Factory (ADF) is used to retrieve a single row of data from a dataset and pass it as output to other activities in a pipeline. This is particularly useful when you need to look up a specific value from a dataset based on some criteria, or when you need to retrieve configuration settings or parameters from a database.

3. ForEach:

In Azure Data Factory (ADF), the "ForEach" activity is used to iterate over a collection of items and execute a specified activity or set of activities for each item in that collection. It's particularly useful for processing data in batches or performing repetitive tasks across multiple items.

4. CopyData Activity:

Used to Copy Data from source to destination.

5. Switch Activity:

In Azure Data Factory (ADF), the "Switch" activity is used to route the flow of execution to one of several possible paths based on the value of a given expression. This activity is useful when you need to make decisions or direct the flow of your pipeline based on dynamic values or conditions.

6. If Else Activity:

The "If Condition" activity allows you to execute different sets of activities based on whether a given condition evaluates to true or false.

PipeLine1.



The Above pipeline contains Four Activity:

i) GetMetaData: It is getting the information of of the folder where we selected ChildItems which means all the files present in that folder.

ii) FilterActivity: Whatever data from getMetaData Activity is came is given input for Filter Activity and it filters the files which has csv in fineName and gives to ForEach.

iii) ForEach : Used to do specific operations on each file which came from Filtering.

iv) CopyData : Which is inside ForEach will copy file and put it in Destination file. This will run for all files.

PipeLine2:



In the above file MetaData of folder is taken (ChildItems) is taken and give input to Switch Activity which will have different case and each case will perform different operation.

Triggers:

Triggers are used to schedule and automate the execution of pipelines. They enable pipelines to run at specific times or based on certain events, ensuring that data workflows are executed consistently without manual intervention.