**Triggers in Azure Data Factory**

* Triggers- You can execute your pipeline.
* It determines when a pipeline execution needs to be kicked off.
* Pipeline and triggers have a many-to-many relationship (Except for the tumbling window trigger)
* Multiple triggers can kick off a single pipeline or single trigger can kickoff multiple pipelines.

**Types of Triggers in ADF:**

1. **Schedule triggers:** A trigger that invokes a pipeline on a wall clock schedule.
2. **Tumbling window trigger:** A trigger that operates on a periodic interval while also retaining state.
3. **Event based triggers:** A trigger that responds to an event
4. **Schedule triggers**

**Create Pipeline**

**Copy Data Activity**

1. In copy data activity select the source file and sink file

**Add Trigger (New add/edit)**

1. Select a trigger if you have or else create new.
2. If creating/selecting new, set the configurations
3. Now click on okay

**Debug.**

# **2. Use Event triggers to copy files coming in different times**

**Create Pipeline**

**Copy Data Activity**

1. In copy data activity select the source file and sink file
2. Create a parameter inside dataset and then after point the parameter as @dataset().Filename

**Triggers ---> Pipelines ---> Dataset**

**Flow is like Triggers gives parameters to Pipelines and Pipelines to Dataset.**

1. Create parameters in the pipeline and then after point the parameter as @pipeline().parameters.Filename

**Add Trigger (New add/edit)**

1. Select a trigger if you have or else create new.
2. If creating/selecting new, set the configurations
3. Now click on okay
4. After clicking okay, you will get the parameter value box which need to be set to @triggerBody().filename

**Debug and Publish.**

# **3. Implement tumbling triggers in ADF**

**Create Pipeline**

**Copy Data Activity**

1. In copy data activity select the source file and sink file
2. Create parameters in the pipeline as “starttimestamp” and then after point the parameter as @trigger().outputs.windowStartTime
3. In source query section add @concat(‘select \* from t\_salesdata where modified\_ts>=convert(datetime,’’’ ,pipeline().parameters.starttimestamp,’’’)’)

**Add Trigger (New add/edit)**

1. Select a trigger if you have or else create new.
2. If creating/selecting new, set the configurations
3. Now click on okay



