

# KUSTO QUERY LANGUAGE

## (log analytics workspace)

### 1. DataStatus

```
ADFPipelineRun
| where Status in ("Failed", "Succeeded", "InProgress")
| summarize PipelineRunCount = count() by Status, PipelineName
| project Status, PipelineName, PipelineRunCount
| render piechart
```

### 2. LongPipelineRun

```
ADFPipelineRun
| where Status == "InProgress"
| extend PipelineRunDurationMinutes = datetime_diff('minute',
datetime_utc_to_local(now(), 'Asia/Kolkata'), Start)
// Convert duration to minutes
| summarize by PipelineName, PipelineRunDurationMinutes
// | extend MaxDuration = datetime_utc_to_local(now(),
'Asia/Kolkata')
```

### 3. PipelineError

//Scenario: You want to be notified whenever the status of a pipeline run changes.

```
ADFPipelineRun
| summarize arg_max(TimeGenerated, *) by RunId
| where Status == "Failed"
| project PipelineName, Status, FailureType, TimeGenerated
| order by TimeGenerated desc
```

## 4. MinMax

ADFPipelineRun

| where Status == "Succeeded"

| extend TimeTaken = End - Start

| summarize AvgTime = avg(TimeTaken), TimeTaken =  
make\_list(TimeTaken), CurrentTimeTaken = arg\_max(End, \*)  
by PipelineName, Start = bin(Start, 7d)

| extend Range\_neg\_10 = AvgTime \* 0.9, // -10%

Range\_pos\_10 = AvgTime \* 1.7 // +70%

| extend Alert = iif(AvgTime > Range\_neg\_10 and AvgTime <  
Range\_pos\_10, "Within Range", "Out of Range")

| project

PipelineName, current\_exec\_time = TimeTaken1, AvgTime,  
TimeTaken, CurrentTimeTaken, Range\_pos\_10, Range\_neg\_10, Alert