Project Code

Power Query M Language

* Converted Actual time stamp and Estimated time stamp to date time stamp by writing code

#datetime(1970,1,1,0,0,0)+#duration(0,0,0,[Properties Flysfo Estimated Timestamp])

#datetime(1970,1,1,0,0,0)+#duration(0,0,0,[Properties Flysfo Actual Timestamp])

* Created a conditional column for Terminal by writing a conditional statement

"Added Conditional Column" = Table.AddColumn(#"Added Custom3", "Terminal ", each if Text.StartsWith([Properties Flysfo Gate], "A") then "International Terminal" else if Text.StartsWith([Properties Flysfo Gate], "G") then "International Terminal" else if Text.StartsWith([Properties Flysfo Gate], "F") then "Terminal 3" else if Text.StartsWith([Properties Flysfo Gate], "E") then "Terminal 3" else if Text.StartsWith([Properties Flysfo Gate], "D") then "Terminal 2" else if Text.StartsWith([Properties Flysfo Gate], "C") then "Terminal 2" else if Text.StartsWith([Properties Flysfo Gate], "B") then "Terminal 1" else "gate number not declare"),

* Created a conditional Column for Flight Statuts

Added Conditional Column1" = Table.AddColumn(#"Added Conditional Column", "Custom", each if [Actual date time] = [Estimated date time] then "On time" else if [diff1] >= 240 then "Reschedule" else if [Actual date time] < [Estimated date time] then "Reschedule" else if [Actual date time] > [Estimated date time] then "Delay" else null),

* Created timerdiff column

Duration.Hours([Actual date time]-[Estimated date time])\*60+Duration.Minutes([Actual date time]-[Estimated date time])

Dax Query

Average Delay(mins) = CALCULATE(AVERAGE('air travel new'[Time diff(min)]),'air travel new'[Flight Status]="Delay")

PI\_DIV180 = 57.29577951

distance =

var lat1 = DIVIDE('air travel new'[Geometry Coordinates 0 0],[PI\_DIV180])

var lat2 = DIVIDE('air travel new'[Geometry Coordinates 1 0],[PI\_DIV180])

var log1 = DIVIDE('air travel new'[Geometry Coordinates 0 1],[PI\_DIV180])

var log2 = DIVIDE('air travel new'[Geometry Coordinates 1 1],[PI\_DIV180])

var d = 3963.0\*ACOS(SIN(lat1)\*SIN(lat2)+COS(lat1)\*COS(lat2)\*COS(log2 - log1))

var km = ROUND(1.60934\*d,3)

return km

Flight Going = CALCULATE(COUNT('air travel new'[To City]),'air travel new'[From City]="SFO",USERELATIONSHIP('air travel new'[To City],airports[IATA]))

Takeoff/Landed = IF('air travel new'[From City] = "SFO" ,"Take off","Landed")

Total Flight Landed = COUNTAX(FILTER('air travel new','air travel new'[From City] <> "SFO"),'air travel new'[From City])

Total flight take off = COUNTAX(FILTER('air travel new','air travel new'[From City]="SFO"),'air travel new'[From City])

DATE = CALENDAR(DATE(2020,03,01),DATE(2020,03,31))

Day Name = FORMAT('DATE'[Date],"dddd")

day number = WEEKDAY('DATE'[Date],2)

Week number = 1+ WEEKNUM('DATE'[Date])-WEEKNUM(STARTOFMONTH('DATE'[Date]))

Year = YEAR('DATE'[Date])