Uber Trip Analysis DAX Formula

Pickup Date = DATE(YEAR('Trip Details'[Pickup Time]),MONTH('Trip Details'[Pickup Time]),DAY('Trip Details'[Pickup Time]))

Total Booking Amount = SUM('Trip Details'[fare\_amount]) + SUM('Trip Details'[Surge Fee])

Total Trip Distance =

VAR TotalMiles = SUM('Trip Details'[trip\_distance]) / 1000

RETURN

CONCATENATE(FORMAT(TotalMiles,"0"),"K miles")

Avg Booking Amount = DIVIDE([Total Booking Amount],[Total Booking],BLANK())

Avg Trip Time = AVERAGEX('Trip Details',DATEDIFF('Trip Details'[Pickup Time],'Trip Details'[Drop Off Time],MINUTE))

Most Frequent Pickup Point = VAR PickPoint = TOPN(1,

                           SUMMARIZE('Trip Details','Location Table'[Location],"Pickup Point", COUNT('Trip Details'[Trip ID])

                           ),

                           [Pickup Point],DESC

                        )

RETURN CONCATENATEX(PickPoint, 'Location Table'[Location],",")

Most Frequent Dropoff Point =

VAR DropOffCounts =

    ADDCOLUMNS(

        SUMMARIZE(

            'Trip Details',

            'Location Table'[Location]

        ),

        "DropOffCount",

        CALCULATE(

            COUNT('Trip Details'[Trip ID]),

            USERELATIONSHIP('Trip Details'[DOLocationID],'Location Table'[LocationID])

        )

    )

VAR RankedDropOffs =

    ADDCOLUMNS(

        DropOffCounts, "Rank",

        RANKX(DropOffCounts, [DropOffCount],,DESC,Dense)

    )

VAR TopDropOff =

    FILTER(RankedDropOffs, [Rank]=1)

RETURN

    CONCATENATEX(TopDropOff, 'Location Table'[Location], ", ")

Fartherest Distance =

VAR MaxDistance = MAX('Trip Details'[trip\_distance])

VAR PickUpLocation =

    LOOKUPVALUE(

        'Location Table'[Location],'Location Table'[LocationID],

        CALCULATE(

            SELECTEDVALUE('Trip Details'[PULocationID]),

            'Trip Details'[trip\_distance] = MaxDistance

        )

    )

VAR DropOffLocation =

    LOOKUPVALUE(

        'Location Table'[Location],'Location Table'[LocationID],

        CALCULATE(

            SELECTEDVALUE('Trip Details'[DOLocationID]),

            'Trip Details'[trip\_distance] = MaxDistance

        )

    )

RETURN

    "Pickup: " & PickUpLocation & " → Drop-off: " & DropOffLocation & " (" & FORMAT(MaxDistance, "0.0") & ")" & " miles"

Dynamic Title =

IF('Dynamic Measure'[Dynamic Measure Order] = 0, "Total Booking",

IF('Dynamic Measure'[Dynamic Measure Order] = 1, "Total Booking Fare",

IF('Dynamic Measure'[Dynamic Measure Order] = 2,"Total Trip Distance",

"Other")))

Title by Pickup Time = SELECTEDVALUE('Dynamic Measure'[Dynamic Title]) & " Pickup Time"