1

Average\_Monthly\_LatestYear =

VAR MaxYear = MAX(DateTable[Year])

RETURN

CALCULATE(

AVERAGEX(

FILTER(

'MACM India Number of Accounts',

NOT(ISBLANK('MACM India Number of Accounts'[Number Of Accounts (k)]))

),

'MACM India Number of Accounts'[Number Of Accounts (k)]

),

DateTable[Year] = MaxYear

)

ORR----------------------------

Dynamic\_Average\_Monthly\_LatestYear =

VAR MaxYear = MAX(DateTable[Year])

-- Calculate the average of the monthly values for the latest year

VAR AverageMonthlyValue =

CALCULATE(

AVERAGEX(

VALUES(DateTable[Month]),

CALCULATE(

MAX('MACM India Number of Accounts'[Number Of Accounts (k)]),

DateTable[Year] = MaxYear

)

),

DateTable[Year] = MaxYear

)

RETURN

IF(

ISBLANK(AverageMonthlyValue),

BLANK(), -- Or another fallback value if the result is blank

AverageMonthlyValue

)

3.

Dynamic\_Quarter\_Value =

VAR MaxYear = MAX(DateTable[Year])

VAR CurrentQuarter = QUARTER(TODAY())

VAR CurrentMonth = MONTH(TODAY())

-- Determine the months within the current quarter

VAR Month1 = SWITCH(CurrentQuarter, 1, 1, 2, 4, 3, 7, 4, 10) -- First month of the quarter

VAR Month2 = SWITCH(CurrentQuarter, 1, 2, 2, 5, 3, 8, 4, 11) -- Second month of the quarter

VAR Month3 = SWITCH(CurrentQuarter, 1, 3, 2, 6, 3, 9, 4, 12) -- Third month of the quarter

-- Check for values in the current quarter starting from the last month and moving backward

VAR Month3Value =

CALCULATE(

MAX('MACM India Number of Accounts'[Number Of Accounts (k)]),

DateTable[Year] = MaxYear && DateTable[Month] = Month3

)

VAR Month2Value =

CALCULATE(

MAX('MACM India Number of Accounts'[Number Of Accounts (k)]),

DateTable[Year] = MaxYear && DateTable[Month] = Month2

)

VAR Month1Value =

CALCULATE(

MAX('MACM India Number of Accounts'[Number Of Accounts (k)]),

DateTable[Year] = MaxYear && DateTable[Month] = Month1

)

-- Determine which month has the data, prioritizing the latest month in the quarter

VAR QuarterValue =

IF(NOT(ISBLANK(Month3Value)), Month3Value,

IF(NOT(ISBLANK(Month2Value)), Month2Value,

IF(NOT(ISBLANK(Month1Value)), Month1Value,

BLANK() -- Return BLANK() or another fallback value if all months are missing

)))

RETURN

QuarterValue

2.

Dynamic\_LatestMonth\_AsOf =

VAR MaxYear = MAX(DateTable[Year])

VAR CurrentQuarter = QUARTER(TODAY())

VAR CurrentMonth = MONTH(TODAY())

-- Determine the latest month in the current quarter

VAR LatestMonthInQuarter =

SWITCH(

CurrentQuarter,

1, IF(CurrentMonth >= 3, 3, IF(CurrentMonth >= 2, 2, 1)), -- Q1: March (3), February (2), January (1)

2, IF(CurrentMonth >= 6, 6, IF(CurrentMonth >= 5, 5, 4)), -- Q2: June (6), May (5), April (4)

3, IF(CurrentMonth >= 9, 9, IF(CurrentMonth >= 8, 8, 7)), -- Q3: September (9), August (8), July (7)

4, IF(CurrentMonth >= 12, 12, IF(CurrentMonth >= 11, 11, 10)) -- Q4: December (12), November (11), October (10)

)

-- Find the latest available date in the selected month

VAR LatestDateInMonth =

CALCULATE(

MAX(DateTable[Date]),

DateTable[Year] = MaxYear && DateTable[Month] = LatestMonthInQuarter

)

-- Calculate the value as of the latest available date in the selected month

VAR ValueAsOfLatestDate =

CALCULATE(

MAX('MACM India Number of Accounts'[Number Of Accounts (k)]),

DateTable[Date] = LatestDateInMonth

)

RETURN

IF(

ISBLANK(ValueAsOfLatestDate),

BLANK(), -- Or another fallback value

ValueAsOfLatestDate

)

4.

Dynamic\_YTD\_LatestYear =

VAR MaxYear = MAX(DateTable[Year])

-- Calculate the YTD value for the latest year

VAR YTDValue =

CALCULATE(

SUM('MACM India Number of Accounts'[Number Of Accounts (k)]),

DATESYTD(DateTable[Date], "12/31"),

DateTable[Year] = MaxYear

)

RETURN

IF(

ISBLANK(YTDValue),

BLANK(), -- Or another fallback value if YTDValue is blank

YTDValue

)

Combined\_Dynamic\_Calculation =

VAR MaxYear = MAX(DateTable[Year])

VAR CurrentQuarter = QUARTER(TODAY())

VAR CurrentMonth = MONTH(TODAY())

-- 1. Dynamic Average Monthly Value for the Latest Year

VAR AverageMonthlyValue =

CALCULATE(

AVERAGEX(

VALUES(DateTable[Month]),

CALCULATE(

MAX('MACM India Number of Accounts'[Number Of Accounts (k)]),

DateTable[Year] = MaxYear

)

),

DateTable[Year] = MaxYear

)

-- 2. Dynamic Latest Month Value in the Current Quarter

VAR LatestMonthInQuarter =

SWITCH(

CurrentQuarter,

1, IF(CurrentMonth >= 3, 3, IF(CurrentMonth >= 2, 2, 1)), -- Q1: March (3), February (2), January (1)

2, IF(CurrentMonth >= 6, 6, IF(CurrentMonth >= 5, 5, 4)), -- Q2: June (6), May (5), April (4)

3, IF(CurrentMonth >= 9, 9, IF(CurrentMonth >= 8, 8, 7)), -- Q3: September (9), August (8), July (7)

4, IF(CurrentMonth >= 12, 12, IF(CurrentMonth >= 11, 11, 10)) -- Q4: December (12), November (11), October (10)

)

VAR LatestDateInMonth =

CALCULATE(

MAX(DateTable[Date]),

DateTable[Year] = MaxYear && DateTable[Month] = LatestMonthInQuarter

)

VAR ValueAsOfLatestDate =

CALCULATE(

MAX('MACM India Number of Accounts'[Number Of Accounts (k)]),

DateTable[Date] = LatestDateInMonth

)

-- 3. Dynamic Year-to-Date (YTD) Calculation for the Latest Year

VAR YTDValue =

CALCULATE(

SUM('MACM India Number of Accounts'[Number Of Accounts (k)]),

DATESYTD(DateTable[Date], "12/31"),

DateTable[Year] = MaxYear

)

-- 4. Dynamic Quarter Handling with Missing Data Consideration

VAR Month1 = SWITCH(CurrentQuarter, 1, 1, 2, 4, 3, 7, 4, 10) -- First month of the quarter

VAR Month2 = SWITCH(CurrentQuarter, 1, 2, 2, 5, 3, 8, 4, 11) -- Second month of the quarter

VAR Month3 = SWITCH(CurrentQuarter, 1, 3, 2, 6, 3, 9, 4, 12) -- Third month of the quarter

VAR Month3Value =

CALCULATE(

MAX('MACM India Number of Accounts'[Number Of Accounts (k)]),

DateTable[Year] = MaxYear && DateTable[Month] = Month3

)

VAR Month2Value =

CALCULATE(

MAX('MACM India Number of Accounts'[Number Of Accounts (k)]),

DateTable[Year] = MaxYear && DateTable[Month] = Month2

)

VAR Month1Value =

CALCULATE(

MAX('MACM India Number of Accounts'[Number Of Accounts (k)]),

DateTable[Year] = MaxYear && DateTable[Month] = Month1

)

VAR QuarterValue =

IF(NOT(ISBLANK(Month3Value)), Month3Value,

IF(NOT(ISBLANK(Month2Value)), Month2Value,

IF(NOT(ISBLANK(Month1Value)), Month1Value,

BLANK() -- Return BLANK() or another fallback value if all months are missing

)))

RETURN

-- You can return all values in a table or concatenate them for display

"Average Monthly Value: " & IF(ISBLANK(AverageMonthlyValue), "N/A", FORMAT(AverageMonthlyValue, "0.00")) &

" | Latest Month Value: " & IF(ISBLANK(ValueAsOfLatestDate), "N/A", FORMAT(ValueAsOfLatestDate, "0.00")) &

" | YTD Value: " & IF(ISBLANK(YTDValue), "N/A", FORMAT(YTDValue, "0.00")) &

" | Quarter Value: " & IF(ISBLANK(QuarterValue), "N/A", FORMAT(QuarterValue, "0.00"))