**DAX - IT AREA**

**Power Pivot & Power BI– IT Area**

1. **DAX- Power Pivot ( :=) & Power BI (=)**

**Amount:**=TOTALYTD(SUM([Value]), 'Date'[Date])

**Actual:**=CALCULATE([Amount], Scenario[ScenarioDescription]="Actual")

**Plan:**=CALCULATE([Amount], Scenario[ScenarioDescription]="Plan")

**Actual/Plan:**=[Actual]

**Var Plan:**=[Actual]-[Plan]

**Var Plan %:**=DIVIDE([Var Plan],[Plan], BLANK())

**LE1:**=CALCULATE([Amount], Scenario[ScenarioDescription]="Latest Estimate 1")

**Var LE1:**=[Actual]-[LE1]

**Var LE1 %:**=DIVIDE([Var LE1],[LE1], BLANK())

**LE2:**=CALCULATE([Amount], Scenario[ScenarioDescription]="Latest Estimate 2")

**Var LE2:**=[Actual]-[LE2]

**Var LE2 %:**=DIVIDE([Var LE2],[LE2], BLANK())

**LE3:**=CALCULATE([Amount], Scenario[ScenarioDescription]="Latest Estimate 3")

**Var LE3:**=[Actual]-[LE3]

**Var LE3 %:**=DIVIDE([Var LE3],[LE3], BLANK())

1. **DAX – Power BI**

**DAX – New Date table “ Calendarauto”**

**Date\_Calendarauto** =

ADDCOLUMNS (

    CALENDARAUTO(),

    "Year", YEAR ( [Date] ),

    "Month", MONTH ( [Date] ),

    "MonthName", FORMAT ( [Date], "MMMM" ),

    "Quarter", "Q" & FORMAT ( [Date], "Q" ),

    "Day", DAY ( [Date] ),

    "Weekday", WEEKDAY ( [Date] ),

    "WeekdayName", FORMAT ( [Date], "dddd" )

)

**DAX – for new column:**

**FY Year**= "FY" &"-" &YEAR(Date\_Calendarauto[Date]) + IF(MONTH(Date\_Calendarauto[Date]) > 1, 0)

**FY Year\_Quarter** = "FY" & YEAR(Date\_Calendarauto[Date]) + IF(MONTH(Date\_Calendarauto[Date]) >  1, 0) &

                  "- "& "Q" & CEILING(MONTH(Date\_Calendarauto[Date]) / 3, 1)

**MonthShortName** = FORMAT(Date\_Calendarauto[Date],"mmm")

**DAX – Calendar table – comprehensive table**

**Date\_Calendar** =

VAR Start\_Date = DATE(2023, 1, 1)

VAR End\_Date = DATE(2024, 12, 31)

RETURN

ADDCOLUMNS (

    CALENDAR ( Start\_Date, End\_Date ),

    "Year", YEAR ( [Date] ),

    "Month", MONTH ( [Date] ),

    "M.Name", FORMAT ( [Date], "MMMM" ),

    "M.ShortName", FORMAT ( [Date], "MMM" ),

    "Quarter", "Q" & FORMAT ( [Date], "Q" ),

    "Day", DAY ( [Date] ),

    "Weekday", WEEKDAY ( [Date] ),

    "W.Name", FORMAT ( [Date], "dddd" ),

    "W.ShortName", FORMAT ( [Date], "ddd" ),

    "W.Number", WEEKNUM ( [Date] ),

    "IsWeekend", IF ( WEEKDAY ( [Date], 2 ) > 5, TRUE(), FALSE() ),

    "FiscalYear", IF ( MONTH ( [Date] ) >= 7, YEAR ( [Date] ) + 1, YEAR ( [Date] ) ),

    "FiscalQuarter", "Q" & FORMAT ( CEILING ( MONTH ( [Date] ) - 6, 3 ) / 3, "0" )

)

**DAX – Calendar table – TODAY**

**CalendarDates\_TODAY** =

VAR CalendarStartDate = DATE(2024, 1, 1)

VAR CalendarEndDate = TODAY()

RETURN

    ADDCOLUMNS (

        CALENDAR (CalendarStartDate, CalendarEndDate),

        "Year", YEAR([Date]),

        "Month", MONTH([Date]),

        "Day", DAY([Date]),

        "Quarter", QUARTER([Date]),

        "MonthName", FORMAT([Date], "MMMM"),

        "DayOfWeek", WEEKDAY([Date], 2),

        "WeekDayName", FORMAT([Date], "dddd")

    )

**Others Advanced DAX**

**Actual,Plan vs Amount YTD Subtitle =** " Actual" & " "  & FORMAT([Actual], "$ #,, M") & "   " & "Plan" &" " & FORMAT([Plan], "$ #,, M") & "  vs  " & "Sales" & " " & FORMAT([Amount], "$ #,,,,.00 T")

**Business Area Main Title** = " Business Area"

**Business Area SubTitle** =

    FORMAT([Amount], "$ #,,,,.00 T") &

    "    " &

    "Var plan" &

    "   " &

    IF(

        [Var Plan %] >= 0,

        FORMAT([Var Plan %], "+0.0%") & " " & UNICHAR(128994),

        FORMAT([Var Plan %], "-0.0%") & " " & UNICHAR(128992)

    )

**Cost element number** = DISTINCTCOUNT('CostElement'[Cost element name])

**IT Area number** = DISTINCTCOUNT('ITArea'[IT Area])

**IT Sub Area number** = DISTINCTCOUNT('ITArea'[IT Sub Area])

**LE1,LE,LE3 Subtitle** = " LE1" & "  "  & FORMAT([LE1], "$ #,,,,.00 T") & " /  " & "LE2"  &" " & FORMAT([LE2], "$ #,,,,.00 T") & " /  " & "LE3" & " " & FORMAT([LE3], "$ #,,,,.00 T")

**Rank Country per Amount** = RANKX(ALL('CountryRegion'[Country/Region]),'Fact'[Amount],,DESC)

**Country TopN 5 Value** = SELECTEDVALUE('Country TopN 5'[Country TopN 5], 1)

**TopN5 by Country** = If([Rank Country per Amount] <='Country TopN 5'[Country TopN 5 Value], [Amount])

**Top5-ITSubArea** =

VAR Top5ITSubArea =

    TOPN(

        5,

        FILTER(

            ITArea,

            [IT Amount] > 0

        ),

        [IT Amount],

        DESC

    )

VAR RankedTop5ITSubArea =

    ADDCOLUMNS(

        Top5ITSubArea,

        "Rank", RANKX(Top5ITSubArea, 'Fact'[IT Amount], , DESC, DENSE)

    )

VAR Concat =

    CONCATENATEX(

        RankedTop5ITSubArea,

        [Rank] & ". " & 'ITArea'[IT Sub Area] & " | Amount: " & FORMAT('Fact'[IT Amount], "$#,##0"),

        UNICHAR(10),

        [Rank],

        ASC

    )

RETURN

    Concat

**Sales information** = {

    ("Amount", NAMEOF('Fact'[Amount]), 0),

    ("Actual", NAMEOF('Fact'[Actual]), 1),

    ("Plan", NAMEOF('Fact'[Plan]), 2),

    ("Var Plan", NAMEOF('Fact'[Var Plan]), 3),

    ("Var Plan %", NAMEOF('Fact'[Var Plan %]), 4)

}