**Plant Co. Performance Analysis Report - DAX Formula’s**

**Base Measures**

Sales = SUM(Fact\_Sales[Sales\_USD])

Quantity = SUM(Fact\_Sales[quantity])

COGs = SUM(Fact\_Sales[COGs-USD])

Gross Profit = [Sales]-[COGs]

Hide – COGs Measure

**Previous Year-to-Date (PYTD) Measures**

PYTD\_Sales =

CALCULATE(

[Sales],

SAMEPERIODLASTYEAR(Dim\_Date[Date]),

Dim\_Date[Inpast] = TRUE

)

PYTD\_Quantity =

CALCULATE(

    [Quantity],

    SAMEPERIODLASTYEAR(Dim\_Date[Date]),

    Dim\_Date[Inpast] = TRUE

)

PYTD\_GrossProfit =

CALCULATE(

    [Gross Profit],

    SAMEPERIODLASTYEAR(Dim\_Date[Date]),

    Dim\_Date[Inpast] = TRUE

)

**Year-to-Date (YTD) Measures**

YTD\_Sales =

TOTALYTD(

[Sales],

Fact\_Sales[Date]

)

YTD\_Quantity =

TOTALYTD(

    [Quantity],

    Fact\_Sales[Date]

)

YTD\_GrossProfit =

TOTALYTD(

    [Gross Profit],

    Fact\_Sales[Date]

)

**Switch Measures**

S\_PYTD =

VAR selected\_value = SELECTEDVALUE(Slc\_Values[Values])

VAR result = SWITCH(selected\_value,

"Sales", [PYTD\_Sales],

"Quantity",[PYTD\_Quantity],

"Gross Profit",[PYTD\_GrossProfit],

BLANK()

)

RETURN

result

S\_YTD =

VAR selected\_value = SELECTEDVALUE(Slc\_Values[Values])

VAR result = SWITCH(selected\_value,

    "Sales", [YTD\_Sales],

    "Quantity",[YTD\_Quantity],

    "Gross Profit",[YTD\_GrossProfit],

    BLANK()

)

RETURN

    result

YTD vs PYTD = [S\_YTD]-[S\_PYTD]

**Gross Profit Percentage (GP%) Calculation**

GP% = DIVIDE([Gross Profit],[Sales])

**Dynamic Title Measure**

\_Report title = "Plant Co. " & SELECTEDVALUE(Slc\_Values[Values]) & " Performance Analysis of " & SELECTEDVALUE(Dim\_Date[Date].[Year])

\_Columnchart title = SELECTEDVALUE(Slc\_Values[Values]) & " YTD & PYTD | Month"

\_scatterplot title = "Account Profitability Segmentation | Gp% and "& SELECTEDVALUE(Slc\_Values[Values])

\_Treemap title = "Bottom 10 "& SELECTEDVALUE(Slc\_Values[Values]) & " YTD vs PYTD | Country"

\_waterfall title = SELECTEDVALUE(Slc\_Values[Values]) & " YTD vs PYTD | Month-Country-Product"