DAX Measures

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1. AUTO_DATE: AUTO DATE = DATATABLE("Options", STRING, {{"•"}})
2. Calendar: Calendar =
                 ADDCOLUMNS (CALENDAR ("01/01/"&[Prev Year], "31/12/"&[Curr Year]), "Year", YEAR ([D
                 ate]),
                 "Month", FORMAT([Date], "mmm"),
                 "Month-Yr", FORMAT([Date], "mmm-yy"),
                 "Day", FORMAT ([Date], "ddd"),
                 "MonthIndex", MONTH([Date]),
                 "Quarter", "Q"&QUARTER([Date]))
3. Configuration:
      a. Curr_Year = var yr=2024
                 var Sys Yr=YEAR([System Date])
                 RETURN IF (ISFILTERED (AUTO DATE[Options]), Sys Yr, yr)
      b. Prev Year = [Curr Year]-1
      c. Selected Period = SELECTEDVALUE(Time Period[Value])
      d. System Date = NOW()
      e. YTDMonth = var sysMonth = MONTH([System Date])
                       var SelectYTDMonth = SELECTEDVALUE(Manual Calendar[MonthIndex])
                        RETURN IF (ISFILTERED (AUTO DATE [Options]), sysMonth, SelectYTDMonth)
4. Customer_Measures:
      a. Average Rating Per Category = AVERAGE('MasterTable'[rating])
      b. Customer Growth =
                 var CUSTCY = Customer_Measures[Period_Customers_CY]
                 var CUSTPY = Customer Measures[Period Customers PY]
                 RETURN DIVIDE (CUSTCY-CUSTPY, CUSTPY)
      c. Lost Customers =
                  var FilterCustomers = FILTER(
                     SUMMARIZE (MasterTable, MasterTable[customer id]),
                     [Previous Year value]>0 && [Current Year value]<=0
                 )
                 RETURN CALCULATE([Period Customers], FilterCustomers)
          Lost_Customers_Sale =
                  var FilterCustomers = FILTER(
                     SUMMARIZE(MasterTable, MasterTable[customer id]),
                     [Previous_Year_value]>0 && [Current_Year_value]<=0
                 )
                 RETURN CALCULATE([Period Value], FilterCustomers)
      e. New Customers = var FilterCustomers = FILTER(
                     SUMMARIZE(MasterTable, MasterTable[customer id]),
                     [Previous Year value] <= 0 && [Current Year value] > 0
                 )
                 RETURN CALCULATE([Period Customers], FilterCustomers)
      f. New Customers Sale =
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var FilterCustomers = FILTER(
              SUMMARIZE(MasterTable, MasterTable[customer id]),
              [Previous Year value] <= 0 && [Current Year value] > 0
          )
          RETURN CALCULATE([Period Value], FilterCustomers)
g. Period Customers =
          VAR selected period = [Selected Period]
          var selected Month = [YTDMonth]
          var StartIndex = selected Month-selected period
          VAR Period Value =
          CALCULATE([Total customer Count], 'Calendar'[MonthIndex]>=StartIndex,
          'Calendar' [MonthIndex] < selected Month)
          RETURN IF(selected_period=0,[YTD_Customer_Counts],Period_Value)
h. Period Customers CY = var cy = [Curr Year]
          RETURN
          CALCULATE([Period Customers], 'Calendar'[Year] = cy)
i. Period Customers PY = var py = [Prev Year]
          RETURN
          CALCULATE([Period Customers], 'Calendar'[Year]=py)
j. Period Feedbacks =
          VAR selected period = [Selected Period]
          var selected Month = [YTDMonth]
          var StartIndex = selected_Month-selected_period
          VAR Period Value =
          CALCULATE([Total feedbacks], 'Calendar'[MonthIndex]>=StartIndex,
          'Calendar' [MonthIndex] < selected Month)
          RETURN IF(selected period=0,[YTD Feedback],Period Value)
k. Repeat_Customer_Count_CY = var CY = [Curr_Year]
          return
          CALCULATE([Repeat Customers], 'Calendar'[Year]=CY)
1. Repeat Customer Count PY = var PY = [Prev Year]
          CALCULATE([Repeat Customers], 'Calendar'[Year]=PY)
m. Repeat Customer Sale CY = var CY = [Curr Year]
          return
          CALCULATE([Repeat Customers Sales], 'Calendar'[Year]=CY)
n. Repeat Customer Sale PY = var PY = [Prev Year]
          return
          CALCULATE([Repeat_Customers_Sales], 'Calendar'[Year]=PY)
O. Repeat Customers =
          var CustomerData = SUMMARIZE(MasterTable, MasterTable[customer id])
          var FilterObj =
          FILTER(CustomerData, [Period Orders]>=2)
          RETURN CALCULATE([Period Customers], FilterObj)
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p. Repeat_Customers_Dynamic =
                                   var OrderCount = MAX(Order Filter Table[Order Filter Table])
                                   var CustomerData = SUMMARIZE(MasterTable, MasterTable[customer id])
                                   var FilterObj =
                                   FILTER(CustomerData,[Period Orders]>=OrderCount)
                                   var val = CALCULATE([Period Customers],FilterObj)
                                   return IF(ISBLANK(val),0,val)
              q. Repeat_Customers_Sales =
                                   var CustomerData = SUMMARIZE(MasterTable, MasterTable[customer id])
                                   var FilterObj =
                                   FILTER(CustomerData,[Period Orders]>=2)
                                   RETURN CALCULATE([Period Value],FilterObj)
              r. TopN Customer by Value =
                                   VAR RankValue = RANKX(ALL(MasterTable[customer name]),[Period Value], ,DESC)
                                   var Rank = SELECTEDVALUE(Rank Table[Value])
                                   var Rank_TopN_Value = IF(RankValue<=_Rank,[Period_Value], BLANK())</pre>
                                   return IF(_Rank=0,[Period_Value],Rank_TopN_Value)
              S. Total customer Count = DISTINCTCOUNT(MasterTable[customer id])
              t. Total feedbacks = DISTINCT(MasterTable[feedback id])
                                   YTD Customer Counts = var YTDSysMonth =[YTDMonth]
                                   return
                                   CALCULATE([Total_customer_Count], 'Calendar' [MonthIndex] <= YTDSysMonth)</pre>
              u. YTD Feedback = var YTDSysMonth =[YTDMonth]
                     return
                     CALCULATE([Total feedbacks], 'Calendar' [MonthIndex] <= YTDSysMonth)</pre>
5. Date_Category_Selection = {
                ("Date", NAMEOF('Calendar'[Date]), 0),
                ("Month", NAMEOF('Calendar'[Month]), 1),
                ("Month-Yr", NAMEOF('Calendar'[Month-Yr]), 2),
                ("Quarter", NAMEOF('Calendar'[Quarter]), 3),
                ("Year", NAMEOF('Calendar'[Year]), 4)
6. Dynamic_Titles:
              a. Area_Rk_Title = SELECTEDVALUE(Rank_Table[Option])&" Area "&[Selected_Sale_or_QTY]
              b. Customer_Rank_Title = SELECTEDVALUE(Rank_Table[Option])&" Customer
                     "&[Selected Sale or QTY]
              C. Product Rk Title = SELECTEDVALUE(Rank Table[Option])&" Products
                     "&[Selected Sale or QTY]
              d. \quad {\tt Sale\_and\_CY\_year\_Title} = [{\tt Select\_Timeperiod\_Label}] \& "" \& [{\tt Selected\_Sale\_or\_QTY}] \& "" & [{\tt Selected\_Sale\_or\_QTY}] \& "" & [{\tt Selected\_Sale\_or\_QTY}] & "" & [
                     "&[Curr Year]
              e. Sale_and_PY_year_Title = [Select_Timeperiod_Label]&" "&[Selected_Sale_or_QTY]&"
                     "&[Prev Year]
              f. Sale Option CY Year Title = SELECTEDVALUE(Value Options[Value Type]) &"
                     "&Configuration[Curr Year]
              g. Sale_Option_PY_Year_Title = SELECTEDVALUE(Value_Options[Value_Type])&"
                     "&Configuration[Prev Year]
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h. Select_Timeperiod_Label = SELECTEDVALUE(Time_Period[Options])
      i. Selected Sale or QTY = SELECTEDVALUE(Value Options[Value Type])
7. Inventory_Measures:
      a. Available Stock = [Period Inventory Value] - [Period Value]
      b. Available Stock% = DIVIDE([Available Stock],[Period Inventory Value])
      c. damaged_stock = CALCULATE([Period_Inventory_Value],
          Inventory[Stock Type]="damaged stock")
      d. Damaged stock% = DIVIDE([damaged stock], [Period Inventory Value])
                 Inventory Value = SUM(Inventory[Value])
                 Inventory_YTD = var YTDSysMonth =[YTDMonth]
                 return
                 CALCULATE([Inventory Value], 'Calendar' [MonthIndex] <= YTDSysMonth)</pre>
      e. Period Inventory Value =
                 VAR selected period = [Selected Period]
                 var selected Month = [YTDMonth]
                 var StartIndex = selected Month-selected period
                 VAR Period Value =
                 CALCULATE([Inventory Value], 'Calendar' [MonthIndex]>=StartIndex,
                 'Calendar' [MonthIndex] < selected Month)
                 RETURN IF(selected_period=0,[Inventory_YTD],Period_Value)
      f. Sale Stock% = DIVIDE([Period Value],[Period Inventory Value])
       g. stock received = CALCULATE([Period Inventory Value],
          Inventory[Stock_Type] = "Stock_received")
8. Marketing_Measures:
       a. Marketing Value = SUM(Marketing[Value])
      b. Marketing YTD = var YTDSysMonth =[YTDMonth]
                        CALCULATE([Marketing Value], 'Calendar' [MonthIndex] <= YTDSysMonth)</pre>
      c. Period Marketing Value =
                 VAR selected period = [Selected Period]
                 var selected Month = [YTDMonth]
                 var StartIndex = selected Month-selected period
                 VAR Period Value =
                 CALCULATE([Marketing Value], 'Calendar'[MonthIndex]>=StartIndex,
                 'Calendar' [MonthIndex] < selected Month)
                 RETURN IF(selected_period=0,[Marketing_YTD],Period_Value)
9. Order_Filter_Table = GENERATESERIES (0, 10, 1)
10. Rank_Table = DATATABLE("Option", STRING, "Value", INTEGER, "Sort", INTEGER,
                     {"Default", 0, 0},
                     {"Top 5", 5, 1},
                     {"Top 10", 10, 2},
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{"Top 20",20,3},
{"Top 50",50,4},
{"Top 100",100,5}
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11. Sales_Measures:

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a. Current Year value = var Curryear = [Curr Year]
                        RETURN
                        CALCULATE([Period Value], 'Calendar'[Year] = Curryear)
b. CY PY = DIVIDE([Current Year value]-[Previous Year value], [Previous Year value])
c. CY PY Growth% = var val=DIVIDE([Current Year value]-[Previous Year value],
   [Previous Year value])
   return if(ISBLANK(val),0,val)
d. Order ID Count = DISTINCTCOUNT(MasterTable[order id])
e. Period Orders =
          VAR selected period = [Selected Period]
          var selected Month = [YTDMonth]
          var StartIndex = selected Month-selected period
          VAR Period Value =
          CALCULATE([Order ID Count], 'Calendar'[MonthIndex]>=StartIndex,
          'Calendar' [MonthIndex] < selected_Month)</pre>
          RETURN IF(selected_period=0,[YTD],Period_Value)
f. Period Value =
          VAR selected period = [Selected Period]
          var selected Month = [YTDMonth]
          var StartIndex = selected Month-selected period
          VAR Period Value = CALCULATE([Value], 'Calendar' [MonthIndex]>=StartIndex,
          'Calendar'[MonthIndex] < selected Month)</pre>
          RETURN IF(selected period=0,[YTD],Period Value)
g. Positive_&_Negative_BG_Growth_Color = IF([CY_PY_Growth%]>=0,"#C1F6B9","#FFDEDE")
h. Positive_&_Negative_Border_Growth_Color =IF([CY_PY_Growth%]>=0,"#085512","#91000A")
i. Positive & Negative Txt Growth Color = IF([CY PY Growth%]>=0,"#085512","#91000A")
j. Previous_Year_value = var Curryear = [Prev_Year]
          RETURN
          CALCULATE([Period Value], 'Calendar'[Year] = Curryear)
k. TopN Area by Value =
          VAR RankValue = RANKX(ALL(MasterTable[area]),[Period_Value], ,DESC)
          var Rank = SELECTEDVALUE(Rank Table[Value])
          var Rank TopN Value = IF(RankValue<= Rank, [Period Value], BLANK())</pre>
          return IF( Rank=0,[Period Value],Rank TopN Value)
l. TopN_Product_by Value =
          VAR RankValue = RANKX (ALL (MasterTable[product name]), [Period Value], ,DESC)
          var Rank = SELECTEDVALUE(Rank Table[Value])
          var Rank_TopN_Value = IF(RankValue<=_Rank,[Period_Value], BLANK())</pre>
          return IF( Rank=0,[Period Value],Rank TopN Value)
m. Value = SUM(MasterTable[Value])
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n. YTD = var YTDSysMonth =[YTDMonth]
                 return
                 CALCULATE([Value], 'Calendar' [MonthIndex] <= YTDSysMonth)</pre>
       O. YTD Orders = var YTDSysMonth =[YTDMonth]
                 return
                 CALCULATE([Order_ID_Count], 'Calendar'[MonthIndex] <= YTDSysMonth)</pre>
12. Value_Options:
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a. Value_Options = SUMMARIZE(MasterTable, MasterTable[Value_Type])