# **Solution to Dax for DIY Guide: Implementing Time Intelligence Functions in Power BI (Practice Lab 1)**

## **Calendar Table:**

Calender = ADDCOLUMNS(

    CALENDAR(

        MIN(SampleData[Date ]),

        MAX(SampleData[Date ])

    ),

    "year", YEAR([Date]),

    "monthname", FORMAT([Date],"mmm")

    )

## **Measures:**

--Current

* CURRENT MTD = CALCULATE([Total Value],DATESMTD('SampleData'[Date ]))
* CURRENT QTD = CALCULATE([TOTAL VALUE],DATESQTD('SampleData'[Date ]))
* CURRENT YTD = CALCULATE([TOTAL VALUE],DATESYTD('SampleData'[Date ]))

--Previous

* PREVIOUS MT = CALCULATE([Total Value],PREVIOUSMONTH(DATESMTD('SampleData'[Date ])))
* PREVIOUS QT = CALCULATE([TOTAL VALUE],PREVIOUSQUARTER(DATESQTD('SampleData'[Date ])))
* PREVIOUS YT = CALCULATE([TOTAL VALUE],PREVIOUSYEAR(DATESYTD('SampleData'[Date ])))

--Previous XTD

* PREVIOUS MTD =[CURRENT MTD] + [PREVIOUS MT]
* PREVIOUS QTD =[CURRENT MTD] + [PREVIOUS QT]
* PREVIOUS YTD =[CURRENT MTD] + [PREVIOUS YT]

--SamePeriodLastYear

* SPLY\_MTD = CALCULATE([CURRENT MTD],SAMEPERIODLASTYEAR(DATESMTD(Calender[Date])))
* SPLY QTD = CALCULATE([CURRENT QTD],SAMEPERIODLASTYEAR (DATESQTD(Calender[Date])))
* SPLY YTD = IF(ISBLANK([CURRENT YTD]),0,
* CALCULATE([CURRENT YTD],DATESYTD (SAMEPERIODLASTYEAR(Calender[Date]))))

--Rolling Metrics

* LAST 3 MONTH = CALCULATE([Total Value],DATESINPERIOD(SampleData[Date ],MAX(SampleData[Date ]),-3,MONTH))
* LAST 6 MONTH = CALCULATE([Total Value],DATESINPERIOD(SampleData[Date ],MAX(SampleData[Date ]),-6,MONTH))
* DifferenceInValue = [LAST 6 MONTH]-[LAST 3 MONTH]