## **ECOMMERCE SALES DASHBOARD**

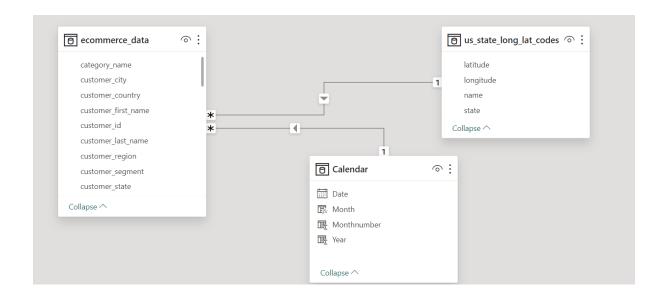
## **Problem Statement**

A US based Ecommerce Sales company wants us to create a Sales dashboard showing information of YTD Sales and generate insights for below scenarios

- Create a KPI Banner showing YTD Sales, YTD Profit, YTD Quantity Sold, YTD Profit Margin
- Find Year on Year growth for each KPI and show a YTD Sparkline for each measure in the KPI to understand the monthly trend for each fact
- Find YTD Sales, PYTD Sales, YoY Sales Growth for different customer category. Add a trend icon for each category.
- Find YTD Sales performance 1. by each State
- Top 5 and Bottom 5 Product by sales
- YTD Sales by Region to know best and worst performing region all over country
- YTD Sales by Shipping Type to get the best shipping type percentage.

## Steps:-

- 1. Data cleaning in Excel File:
  - a. Name correction
  - b. Removed duplicate values
  - c. Data Types correction
  - d. Missing values filled
- 2. Data Loaded as excel file in Power BI
- 3. Created new table Calendar
  - a. Created new table calendar with Calendar function which create column date
    - i. Calendar = CALENDAR(Min(ecommerce\_data[order\_date]), TODAY()) (use
      during live data) OR
  - b. Created new column Year in calendar table
    - i. Year = YEAR('Calendar'[Date])
  - c. Created new column month. Using format since month name is required.
    - Month = FORMAT('Calendar'[Date],"mmmm")
- 4. Created new relationship between Ecommerce['customer state'] and us\_stat\_long\_lat\_code['name'] Many to 1
- 5. Created new relation between Ecommerce[order date] and Calendar['Date'] Many to 1



6. Dashboard created

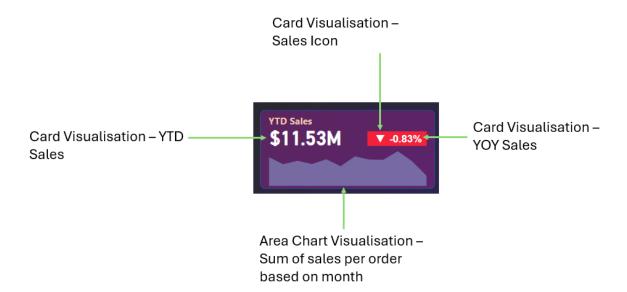


- 7. Selected the background image >> created cards from rectangle shape for each visualisation background
- 8. Created "Cards Visualisation, Area chart," YTD Sales, YTD profit, YTD Quantity, YTD Profit Margin

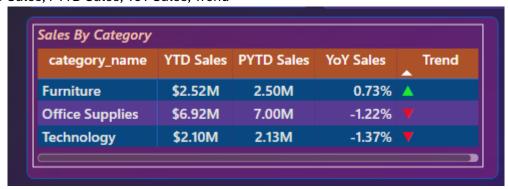


- Before creating the cards as the table does not contain these columns, In power BI measures were created using DAX. Following are the queries used creating measures:
  - a. Year to date sales :- YTD Sales =
    TOTALYTD(SUM(ecommerce\_data[sales\_per\_order]), 'Calendar'[Date])

- b. Previous Year to date:- PYTD Sales =
   CALCULATE(Sum(ecommerce\_data[sales\_per\_order]),DATESYTD(SAMEPERIODLASTYEAR('
   Calendar'[Date] )))
- c. Year over year :- YoY Sales = ([YTD Sales]-[PYTD Sales])/[PYTD Sales]
- d. Created for Setting the trend arrow:
  - i. Trend = var positive\_icon = UNICHAR(9650)
     var negative\_icon = UNICHAR(9660)
     var result = if([YoY Sales]>0, positive\_icon,negative\_icon)
     return result
- e. Created for icon (▲▼) colors to change:- Sales icon color = If([YoY Sales]>0, "Green", "Red")
- g. Similarly created for YTD Profit, YTD Quantity and YTD Profit Margin
- h. For profit margin created measure :- Profit Margin =
   Sum(ecommerce\_data[profit\_per\_order])/SUm(ecommerce\_data[sales\_per\_order])



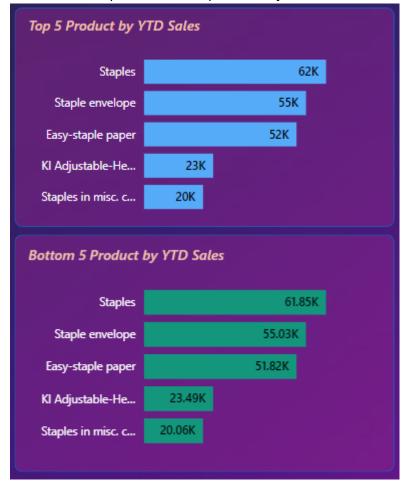
10. Created Matrix visualization for Sales by Category with rows – category\_rows and Values YTD Sales, PYTD Sales, YoY Sales, Trend



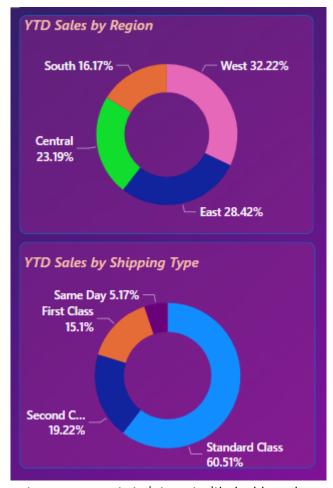
11. Created Map chart visualisation with longitude and latitude having bubbled of YTD Sales marked by customer region:-



12. Created Bar chart for top and bottom 5 products by YTD Sales:-



13. Created donut chart for YTD Sales by region and YTD Sales by Shipping region



- 14. Created slicer for customer segments to interact with dashboard
- 15. Edited the interaction between the visualisation on dashboard.
- 16. Basic changes of general and visual details properties have been changed for every visualisations