PROJECT 2

Total Sales vs Total Profit

Problem Statement:

To analyse the overall performance of a European companies last year sales and quantity of products sold. Based on the parameters available in the dataset visualizations and dashboard was created using Power BI. The total sales of the products last year across the European countries were analysed.

The workbook contains following tables,

- 1. Sales details table
- 2. Customer details
- 3. Product details
- 4. Region
- The data requires some reference table to be created which can be used for using the date and products.
- Relationship was created between the sales table and the other tables
- Interactive slicer in terms of Country Flag in the report.

The Dashboard highlights the following: -

- o Sales and Profit for Last Year
- o Date wise comparison of Total Sales and last year's sales with drill down
- o Product Sales of last year
- o Quantity of Product sold
- o Customer wise total sales and total profit
- o Interactive slicer in terms of Country

Note:

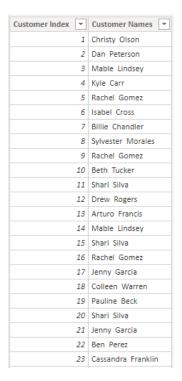
The best practice to a Data Analytics is to follow the Data Analytics Project Cycle i.e

- 1. Understanding Data or Business
- 2. Collecting and Cleaning Data (Data preparation)
- 3. Model Planning and Model Building
- 4. Validation and Visualization

Understanding Data:

Data was about the product sales details, retail sales, country wise sales, etc.

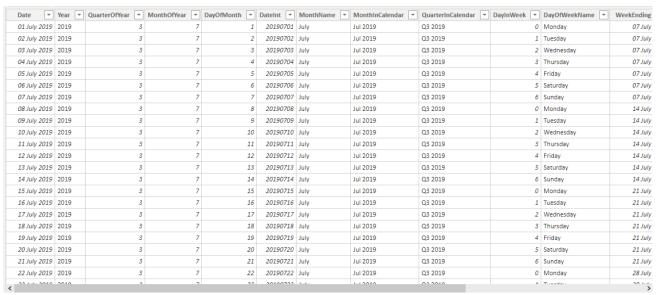
Data composed of Employee detail table, Customer detail table, Product Table, Product Category table, Product Sub-category table, Retail sales table, Sales detail table.





Customer Details table

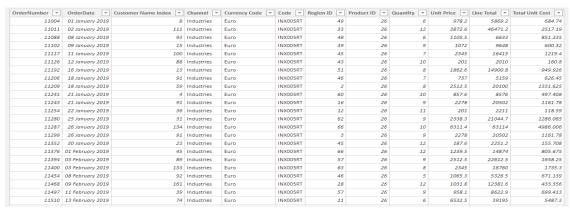
Product details table



Date table



Region table



Sales Details table

Data Preparation:

There was a bit problem in data other than that Data was very cleaned and up to mark. There is no need of removing anomalies from the data. Only the empty rows from the dataset were removed, which was handled in PQE (Power Query Editor) and the column headers were set.

Model Planning:

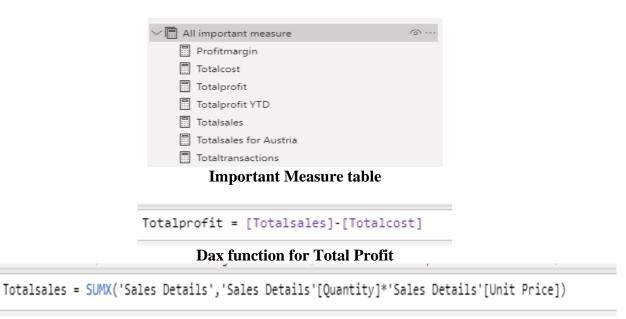
Measures were created using DAX function to find out the results of the problem statements.

Model Building:

Created two groups of Measure to complete all the objectives of the problem statement.

Important Measure:

This measure table consist of a basic calculative measure like total profit and total sales.



Dax function for Total Sales

Time Intelligence Measure:

This measure contain table consisting of Sales for last year and Profit last year



Time Intelligence Measure Table

Salesforlastyear = CALCULATE([Totalsales], SAMEPERIODLASTYEAR('date'[Date]))

Dax function for Sales for last year

Profitlastyear = CALCULATE([Totalprofit], DATEADD('date'[Date], -1, YEAR))

Dax function for Profit last year

Visualization:

The Dashboard highlights the following: -

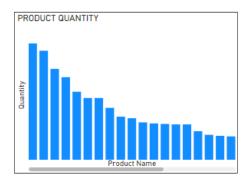
o Sales and Profit for last year using Visual Card

170.57M Salesforlastyear 63.82M

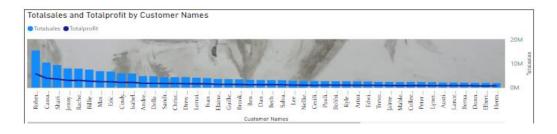
o Interactive slicer in terms of Country

SELECT COUNTRY	
Country	~
All	~

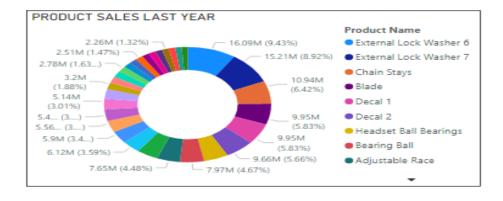
o Quantity of Product sold using Clustered Column Chart



o Customer wise total sales and total profit using Line and Clustered Column Chart



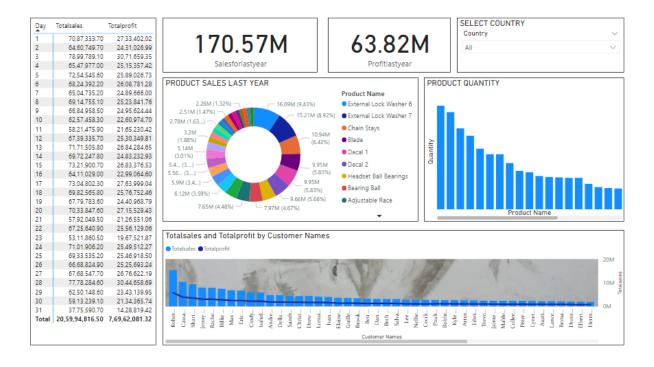
o Product Sales of last year using Donut Chart



o Date wise comparison of Total Sales and last year's sales with drill down (Matrix)

Day	Totalsales	Totalprofit
1	70,87,333.70	27,33,402.02
2	64,60,749.70	24,31,026.99
3	78,99,789.10	30,71,659.35
4	65,47,977.00	25,15,357.42
5	72,54,545.60	25,89,026.73
6	68,24,392.20	26,08,781.28
7	65,04,735.20	24,89,666.00
8	69,14,755.10	25,23,841.76
9	66,84,958.50	24,95,624.44
10	62,57,458.30	22,60,974.70
11	58,21,475.90	21,65,230.42
12	67,39,335.70	25,30,349.81
13	71,71,505.80	26,84,284.65
14	69,72,247.80	24,83,232.93
15	73,21,900.70	26,83,376.53
16	64,11,029.00	22,99,064.60
17	73,04,802.30	27,63,999.04
18	69,82,565.80	25,76,752.46
19	67,79,783.60	24,40,968.79
20	70,33,847.60	27,15,529.43
21	57,92,049.50	
22	67,25,640.90	25,56,129.06
23	53,11,860.50	19,67,521.87
24	71,01,906.20	25,49,512.27
25	69,33,535.20	25,46,918.50
26	66,68,824.90	25,25,693.24
27	67,68,547.70	26,76,622.19
28	77,78,284.60	
29	62,50,148.60	23,43,139.95
30	59,13,239.10	21,34,365.74
31	37,75,590.70	14,28,819.42
Total	20,59,94,816.50	7,69,62,081.32

Dashboard



Conclusion:

Finally, a full report is developed created on **Power Bi Desktop** with all the requirements in the problem statement.