

Data Visualization and Interpretation Lab

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Lab Assignment

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Program: B.Tech CSE

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Batch: 01 (Data Science)

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Task:

Create a financial dashboard on “financial sample.xlsx” dataset. The dashboard should have the following:

1. A dashboard heading including title and author name

FINANCIAL DASHBOARD by Sanya Agarwal

2. Total sales

Total
Sales

118,726,350

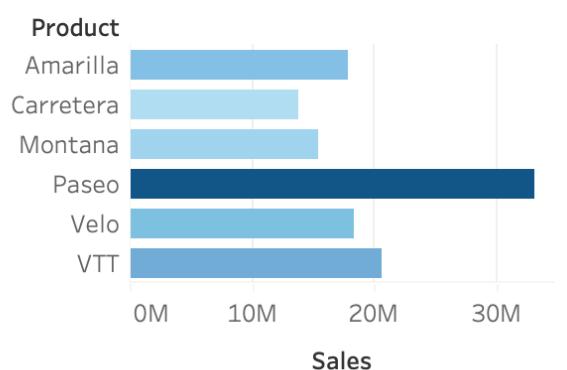
3. Units sold

Units
Sold

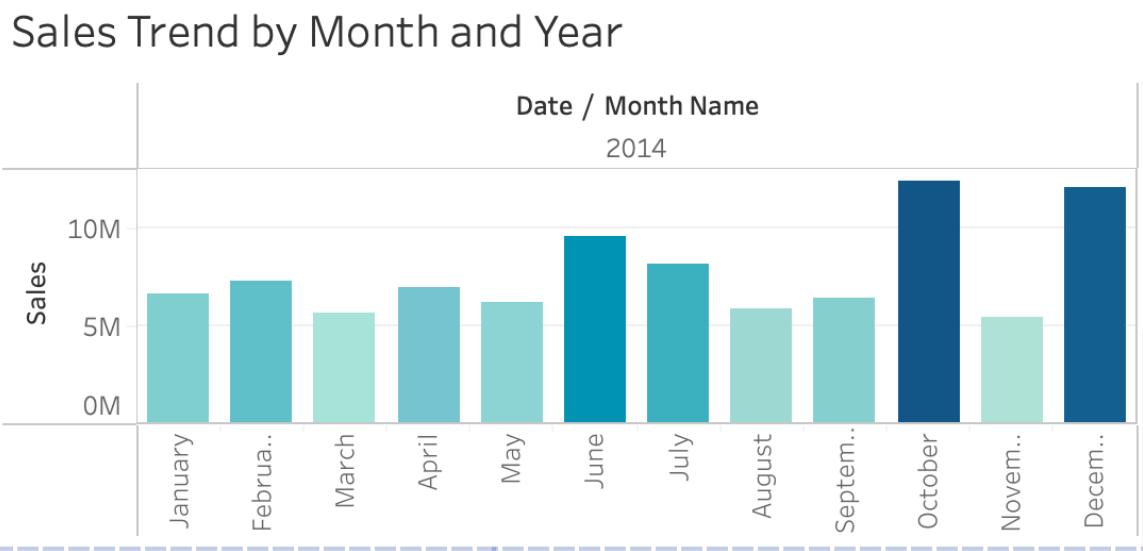
1,125,806

4. A table to show category wise total sales of products

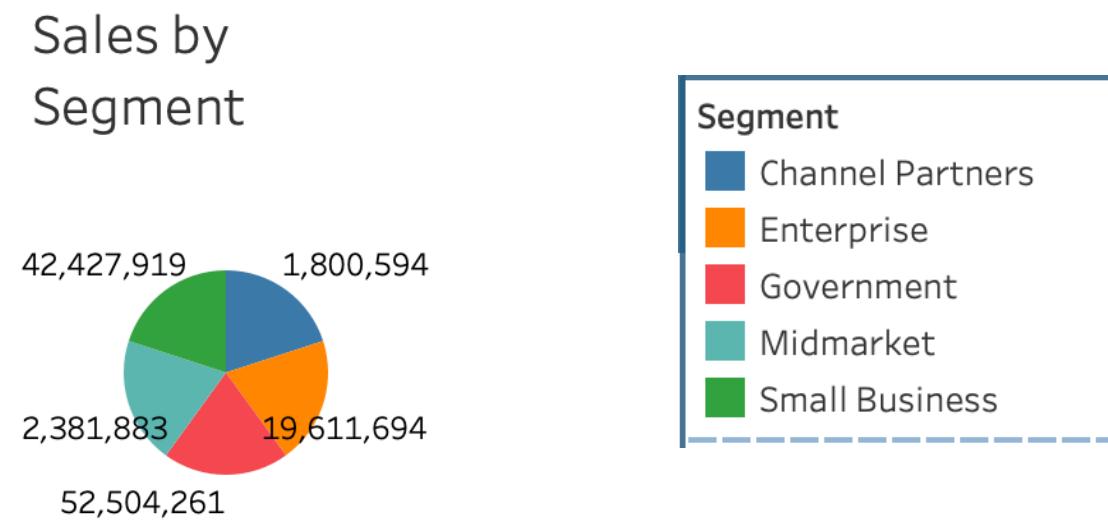
Category-wise Sales



5. A plot to show Sales by year/month

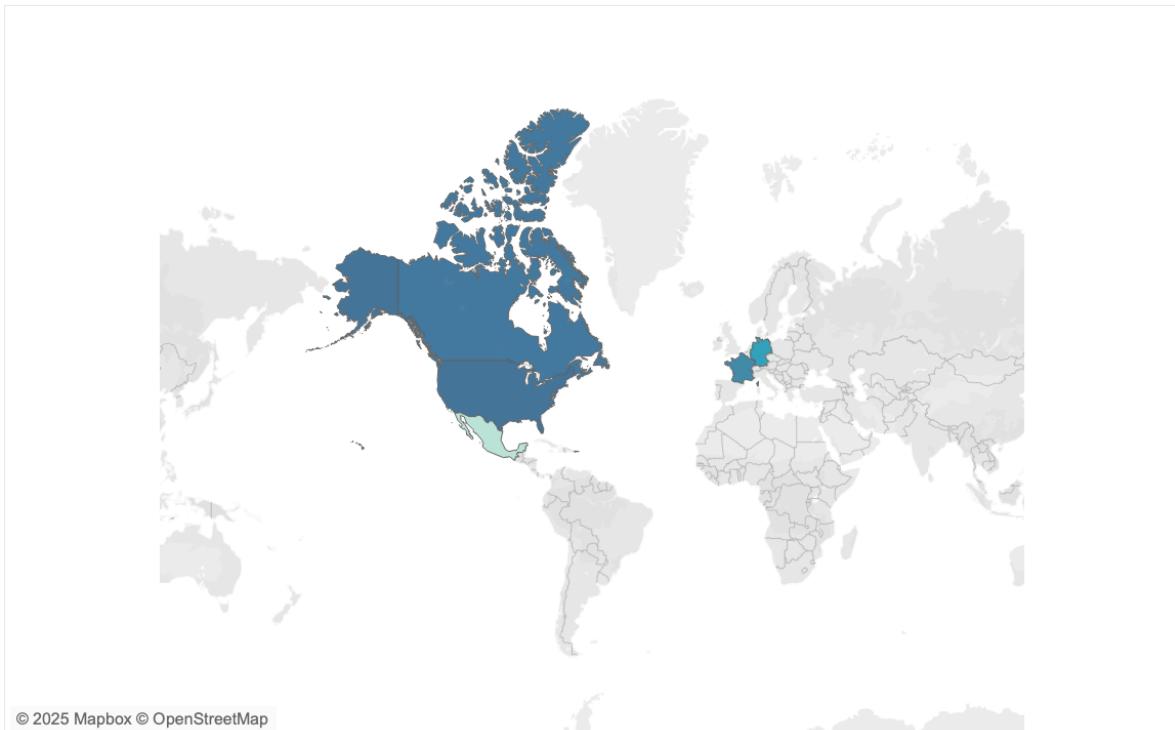


6. A plot to show sales by segments

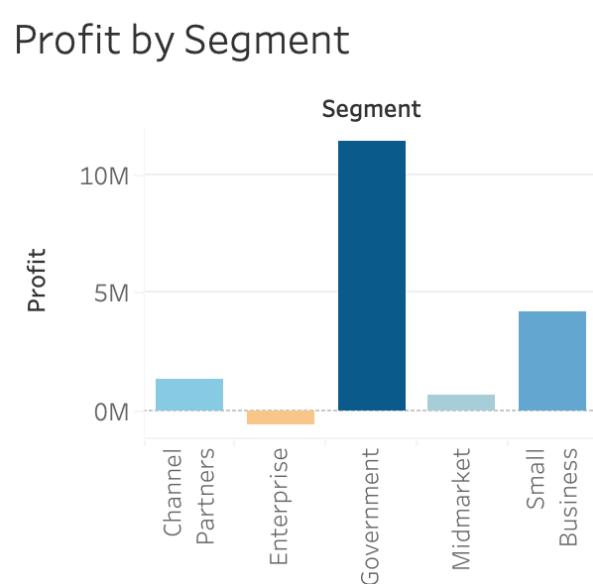


7. A plot to show sales by country

Sales by Country

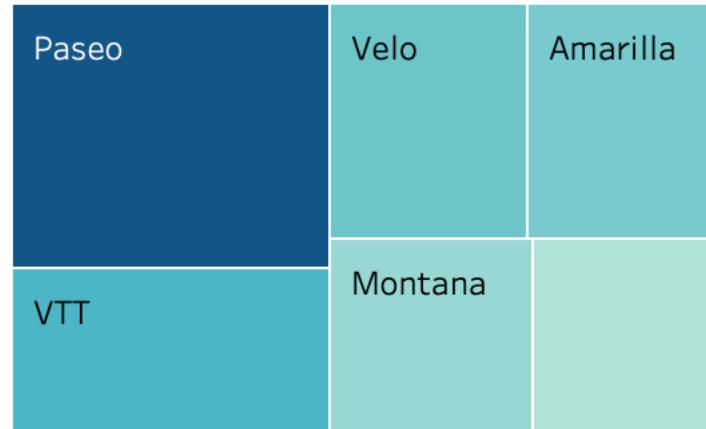


8. A plot to show profit by segments

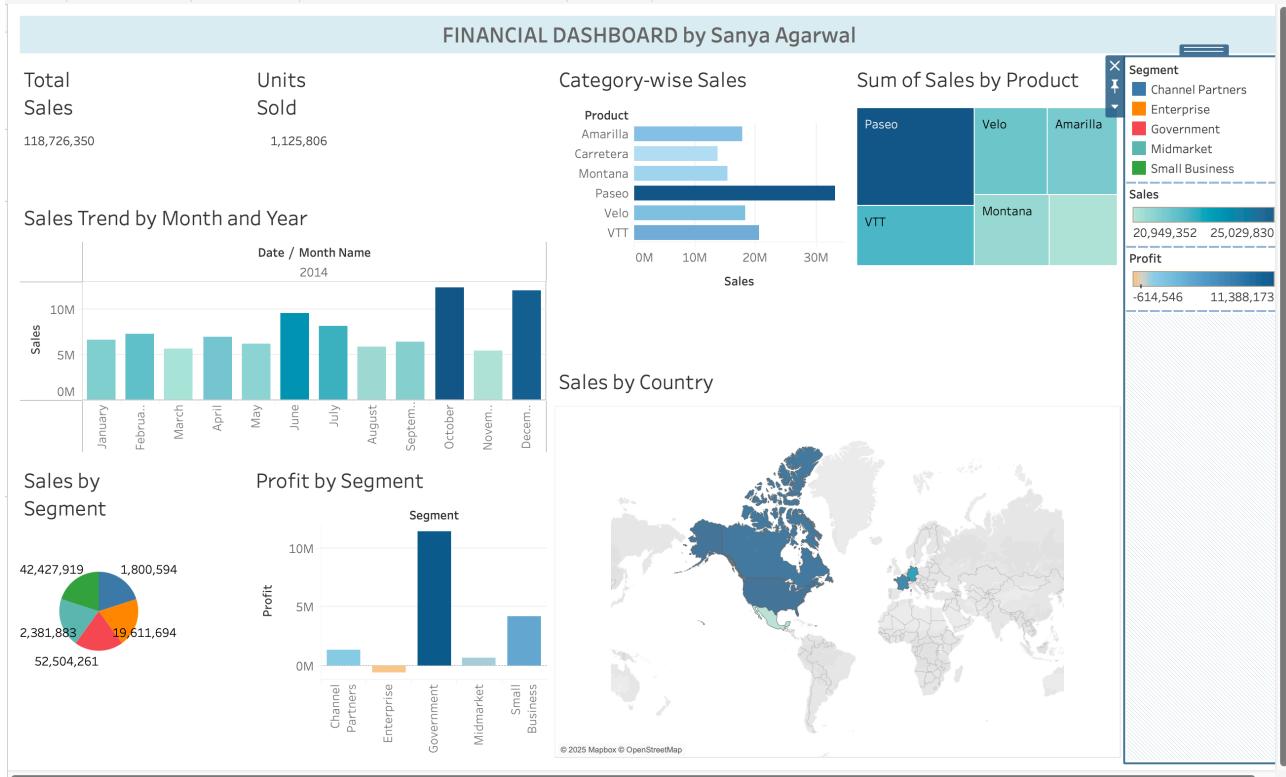


9. A plot to show sales by product

Sum of Sales by Product



Note: Use appropriate plot and do proper formatting.



Write insights/observations after analyzing each tile in your dashboard.

1. Total sales and Units sold

Interpretation : The financial performance represents total sales (118,726,350) and units sold(1,125,806) for given period. It indicates the total revenue and volume of reported period.

2. Category-wise sales

Interpretation : The horizontal bar shows total sales by product category. Paseo leads with over 30 million in sales. It shows that Paseo is dominant contributor among other categories.

3. Sales trend by month/year

Interpretation : The bar chart displays the monthly sales over 2014. Sales are stable from January to August then we can see a significant rise in September and peak in October and December. This pattern indicates seasonal trend, the rise in demand.

4. Sales by Segment

Interpretation : The pie chart divides total sales by market segments. This highlights from where most revenue is generated.

5. Sales by country

Interpretation : The map uses shading (blue , teal) to show geographic distribution of sales. The lighter color indicates the minimal contribution in sales

6. Profit by segment

Interpretation : The segmented bar chart represents profit distribution across different segments. Government yields the highest profit by wide margin.

7. Sum of Sales by Product

Interpretation : The treemap visualizes each product's contribution to overall sales. Paseo occupies the largest area in treemap.

Conclusion - Financial Dashboard

It provides a comprehensive overview for business and demonstrating clear product and segment performance. Paseo dominates product sales.