

Data Analytics Assignment – 2

Supermarket Sales Analysis using Tableau

Team Id: LTVIP2026TMIDS75097

Project Title: Strategic Product Placement Analysis: Unveiling Sales Impact with Tableau Visualization

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Tool Used: Tableau

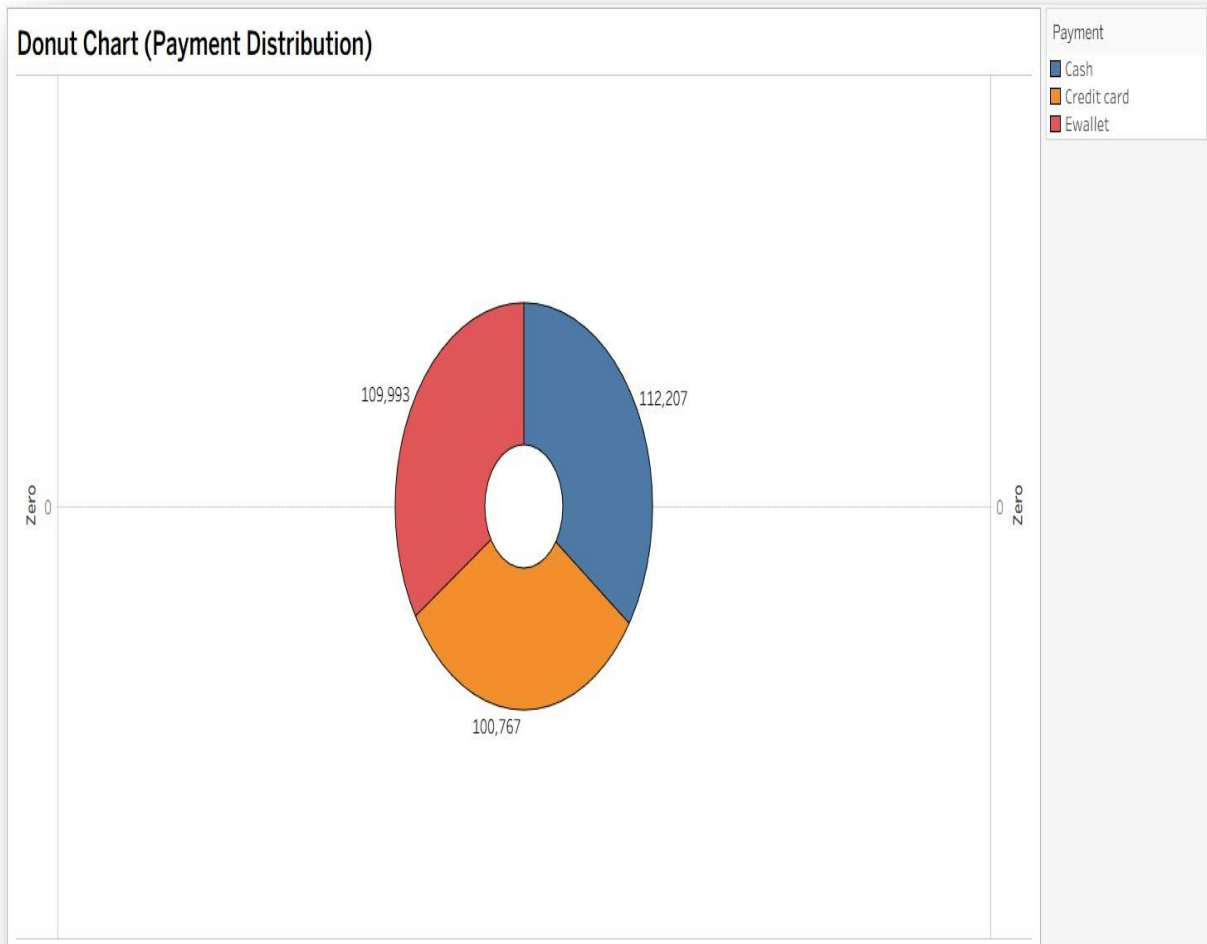
Dataset used: Supermarket Sales Dataset (Jan–Mar 2019) [Link](#)

➤ Dataset Overview

The dataset contains historical sales records of a supermarket company operating across three branches (A, B, and C). The data covers transactions from January 2019 to March 2019 and includes information such as product category, sales amount, payment method, customer type, and ratings. Each transaction record provides detailed insights including invoice ID, city, gender, unit price, quantity purchased, tax amount, total sales, cost of goods sold (COGS), gross income, and gross margin percentage. This structured data enables a comprehensive understanding of business performance at multiple levels.

Through visualizations such as bar charts, pie charts, line charts, stacked bar charts, and bubble charts, the dataset allows comparison of revenue contribution by product category, branch, and payment type. This helps in identifying profitable segments and areas that require improvement.

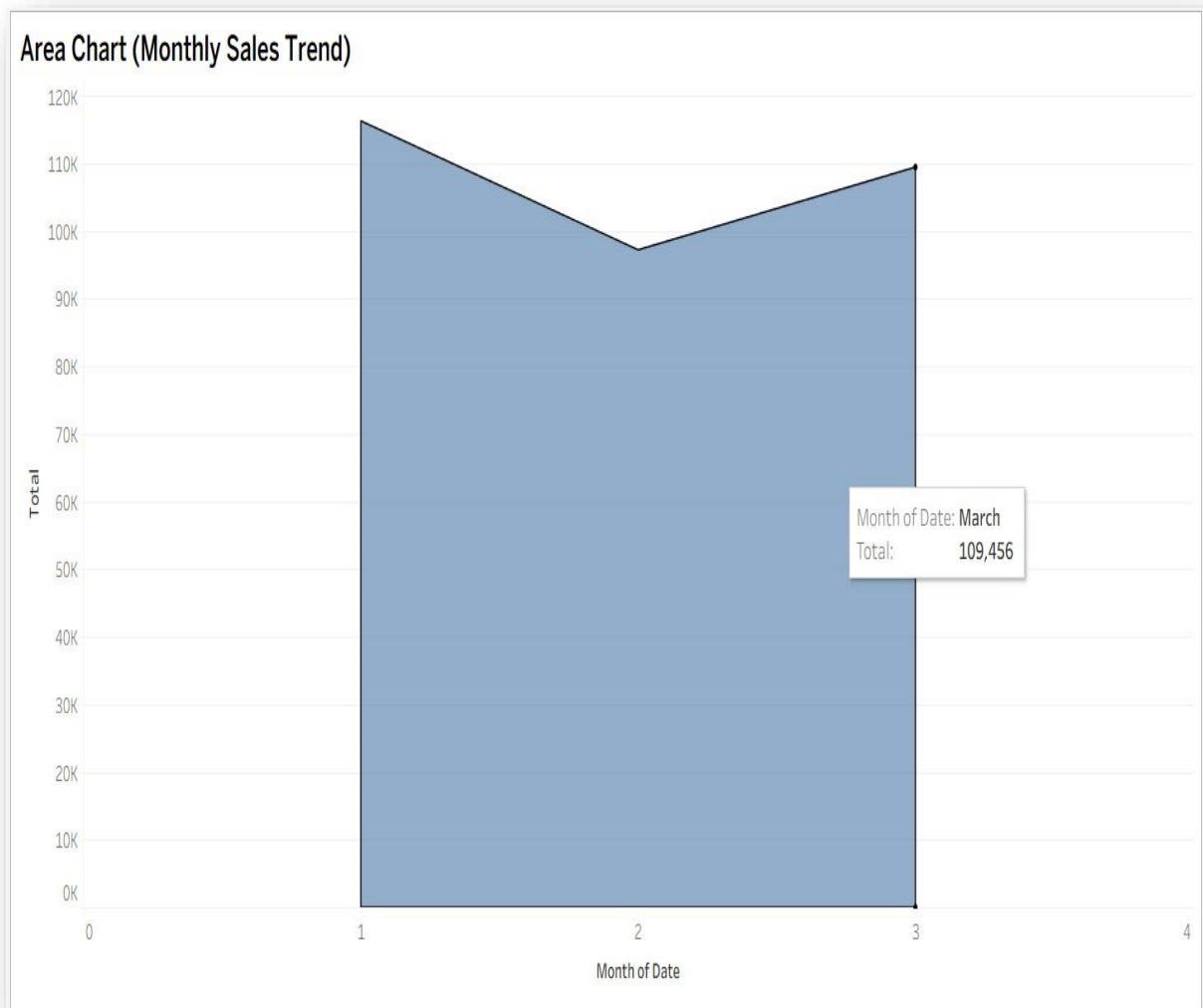
1. Donut Chart – Payment Distribution



Insight:

E-wallet and Cash payments account for a major share of total sales, indicating that customers prefer convenient and flexible payment options. While cash remains a widely used traditional method, the significant share of E-wallet transactions reflects the growing adoption of digital payment systems.

2. Area Chart – Monthly Sales Trend



Insight:

Sales show variation across January to March, reflecting changes in customer demand, seasonal purchasing behaviour, and possible promotional activities during different months. These fluctuations provide insights into how external and internal factors influence business performance.

3. Text Table – Branch-wise Total Sales

Text Table (Branch-wise Sales)	
Branch	
A	106,200
B	106,198
C	110,569

Insight:

Branch C generates comparatively higher revenue, making it the leading contributor to the company's overall business performance during the analyzed period. This indicates that Branch C has strong market presence and customer demand compared to Branch A and Branch B.

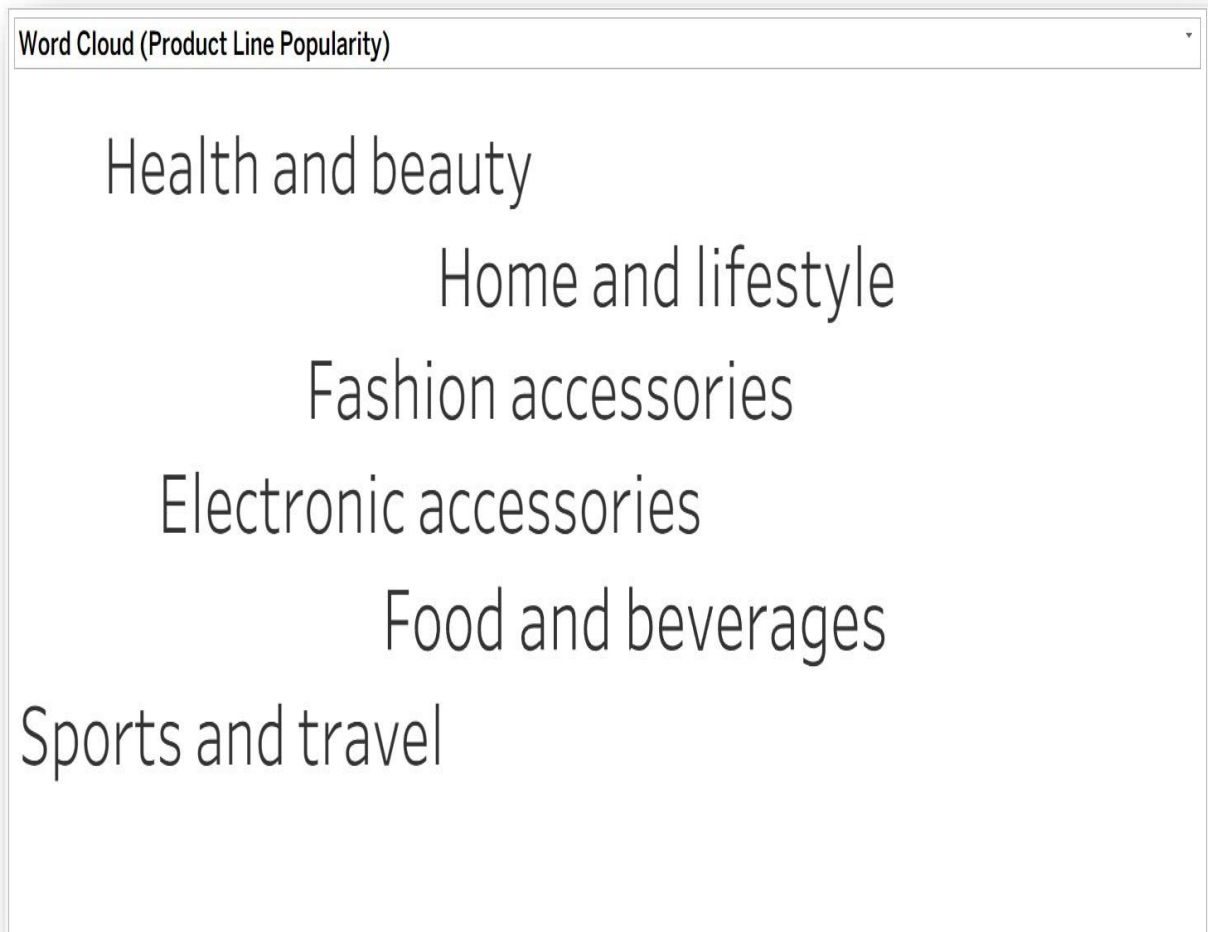
4. Highlight Table – Branch vs Product Line

Highlighted Table (Branch vs Product Line)							SUM(Total)
Branch	Product line						
	Electronic accessories	Fashion accessories	Food and beverages	Health and beauty	Home and lifestyle	Sports and travel	
A	18,317	16,333	17,163	12,598	22,417	19,373	
B	17,051	16,413	15,215	19,981	17,549	19,988	
C	18,969	21,560	23,767	16,615	13,896	15,762	

Insight:

Food and Beverages category performs consistently well across all branches, indicating strong and stable customer demand regardless of location. This category appears to be one of the primary revenue drivers for the supermarket.

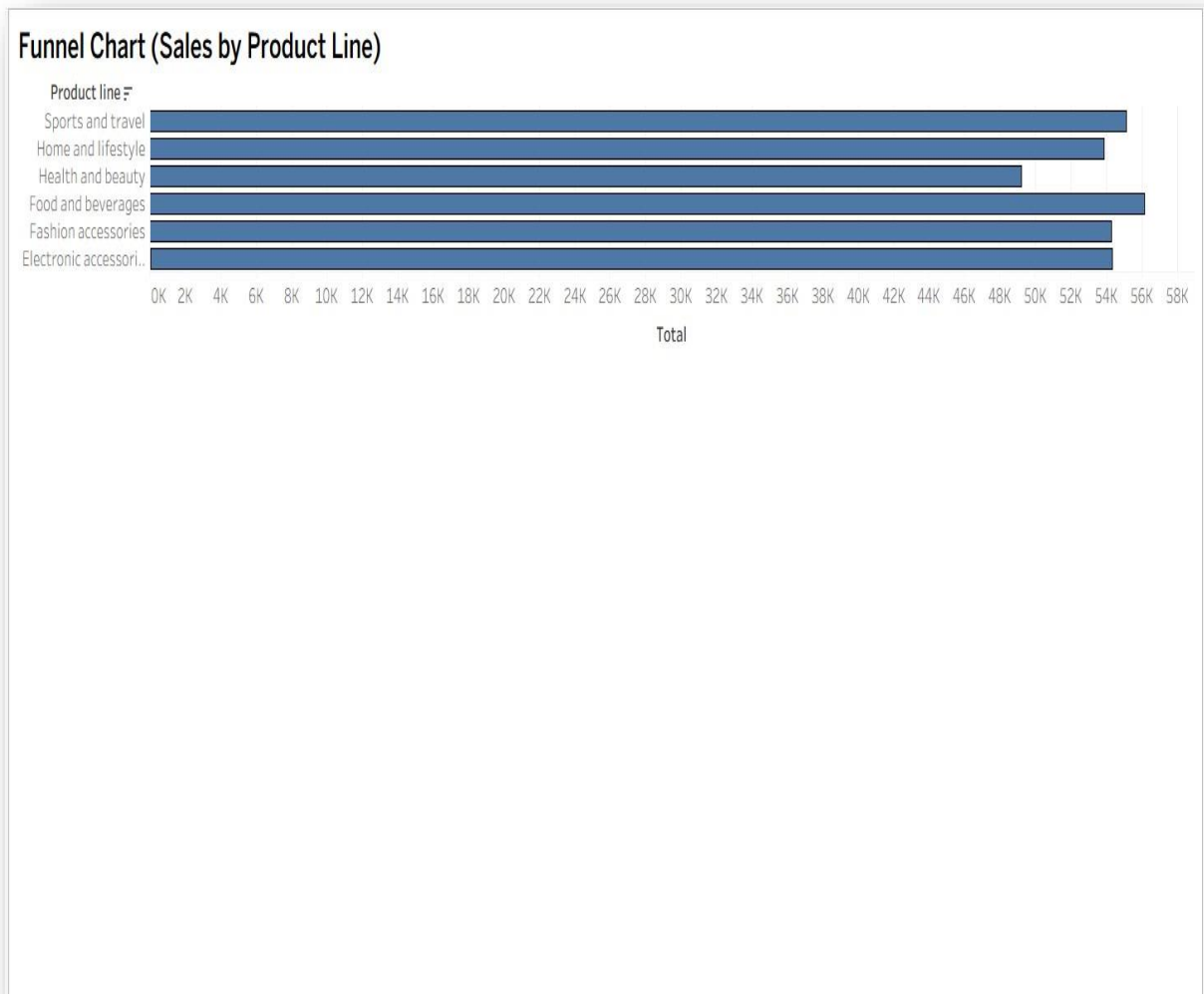
5. Word Cloud – Product Line Sales Impact



Insight:

In the **word cloud visualization**, larger product category names represent higher sales contribution. The size of each word is directly proportional to the total sales generated by that category.

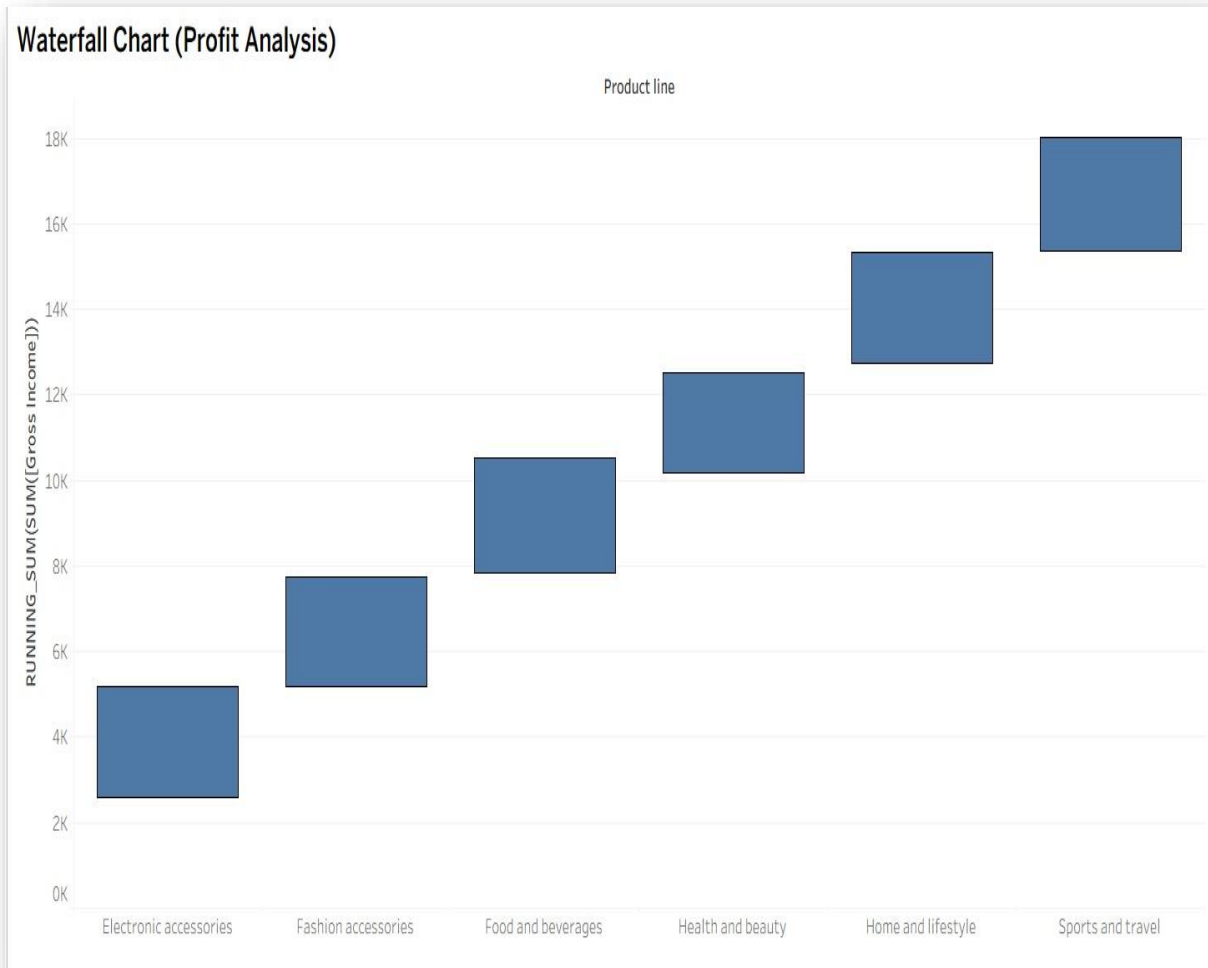
6. Funnel Chart – Sales by Product Line



Insight:

The top two product categories contribute the majority of total revenue, showing sales concentration in specific segments.

7. Waterfall Chart – Gross Income Contribution



Insight:

The **waterfall chart illustrates the cumulative gross income contribution by product categories**, clearly showing how each category adds to the overall profitability of the supermarket.