

# 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

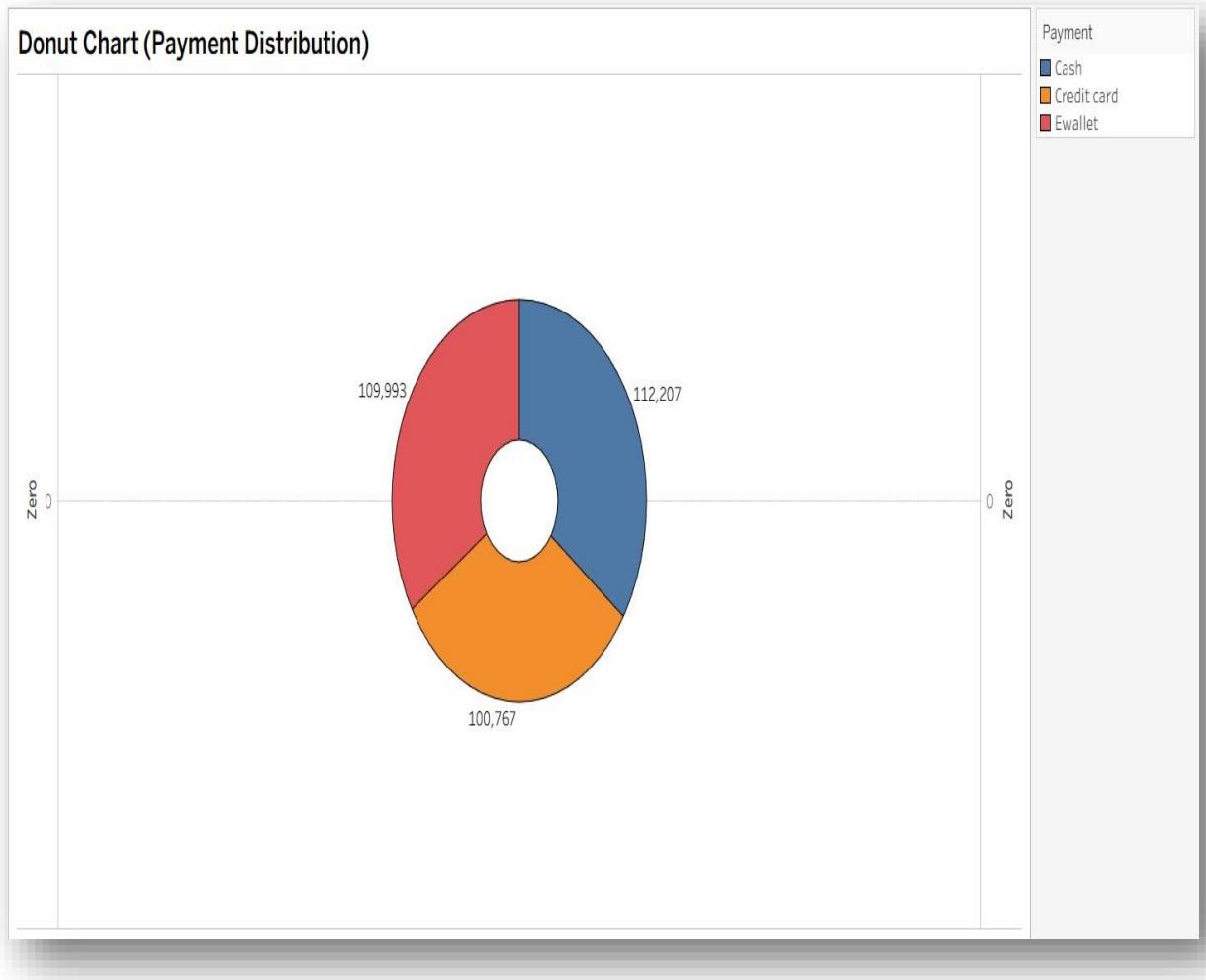
**Dataset used:** Supermarket Sales Dataset (Jan–Mar 2019) [Link](#)

### ➤ 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.

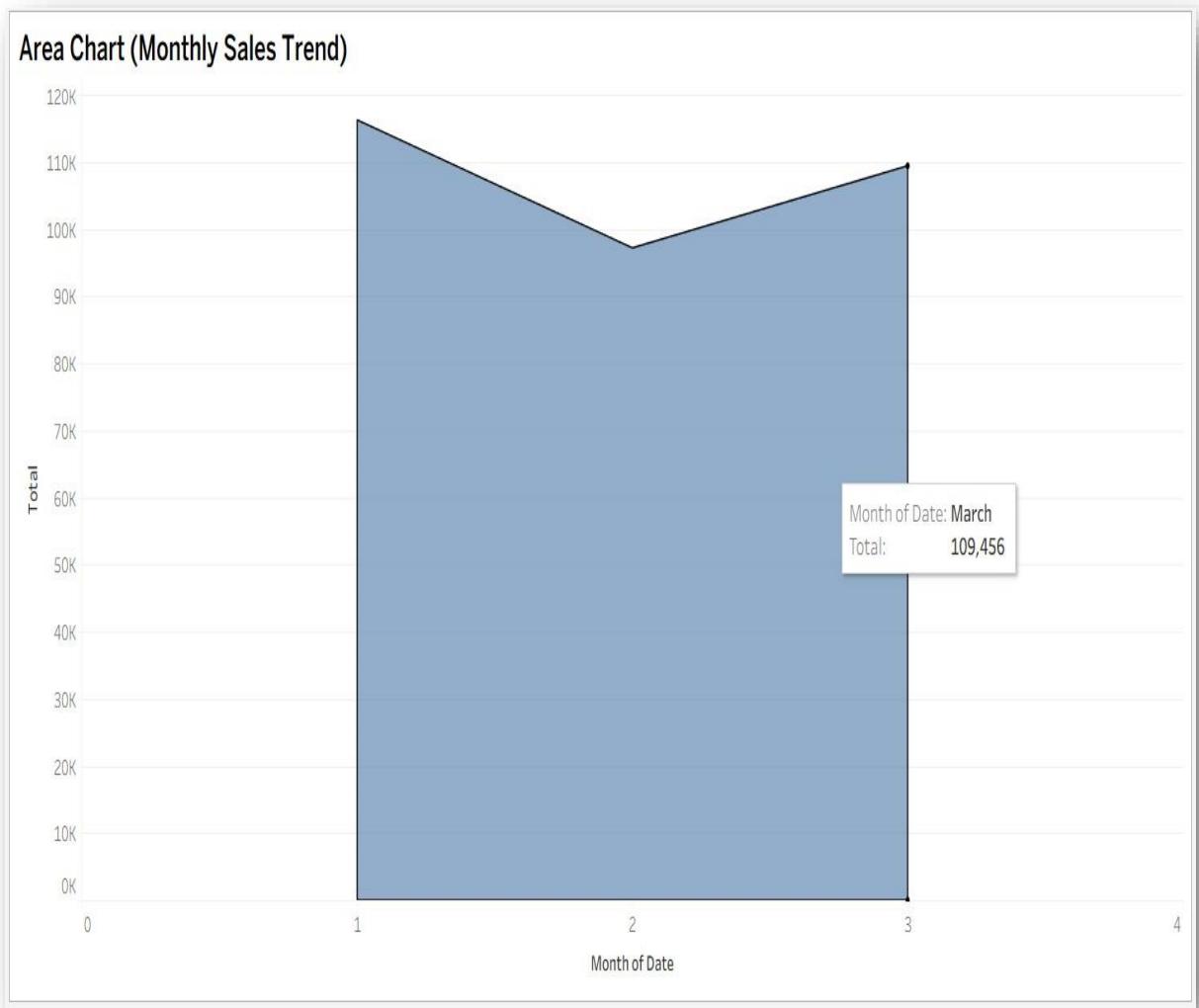
## 1. Donut Chart – Payment Distribution



### **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

		Product line						SUM(Total)	
		Branch	Electronic accessories	Fashion accessories	Food and beverages	Health and beauty	Home and lifestyle	Sports and travel	12,598      23,767
Branch	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**

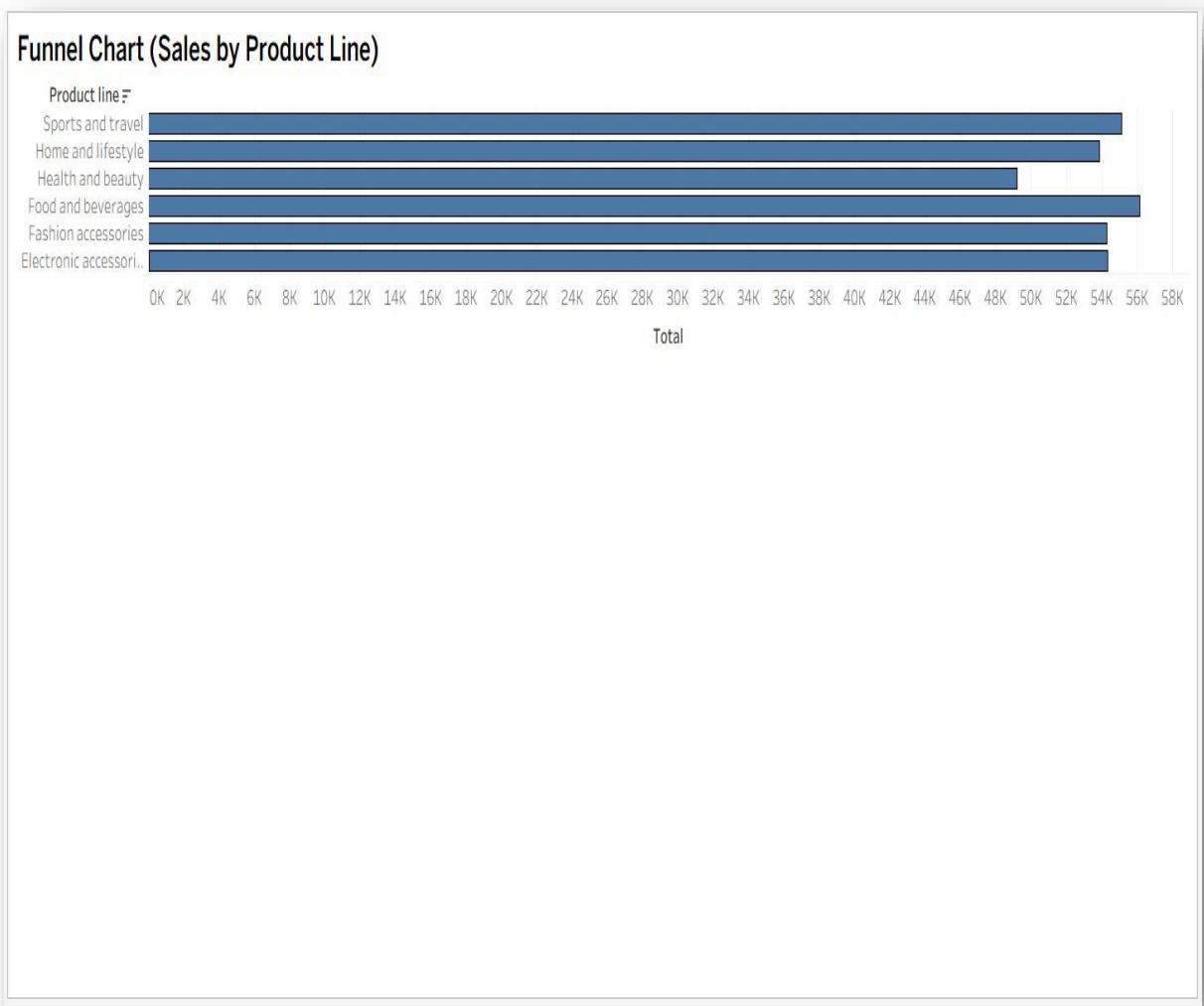
Word Cloud (Product Line Popularity)

Health and beauty  
Home and lifestyle  
Fashion accessories  
Electronic accessories  
Food and beverages  
Sports and travel

### **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.

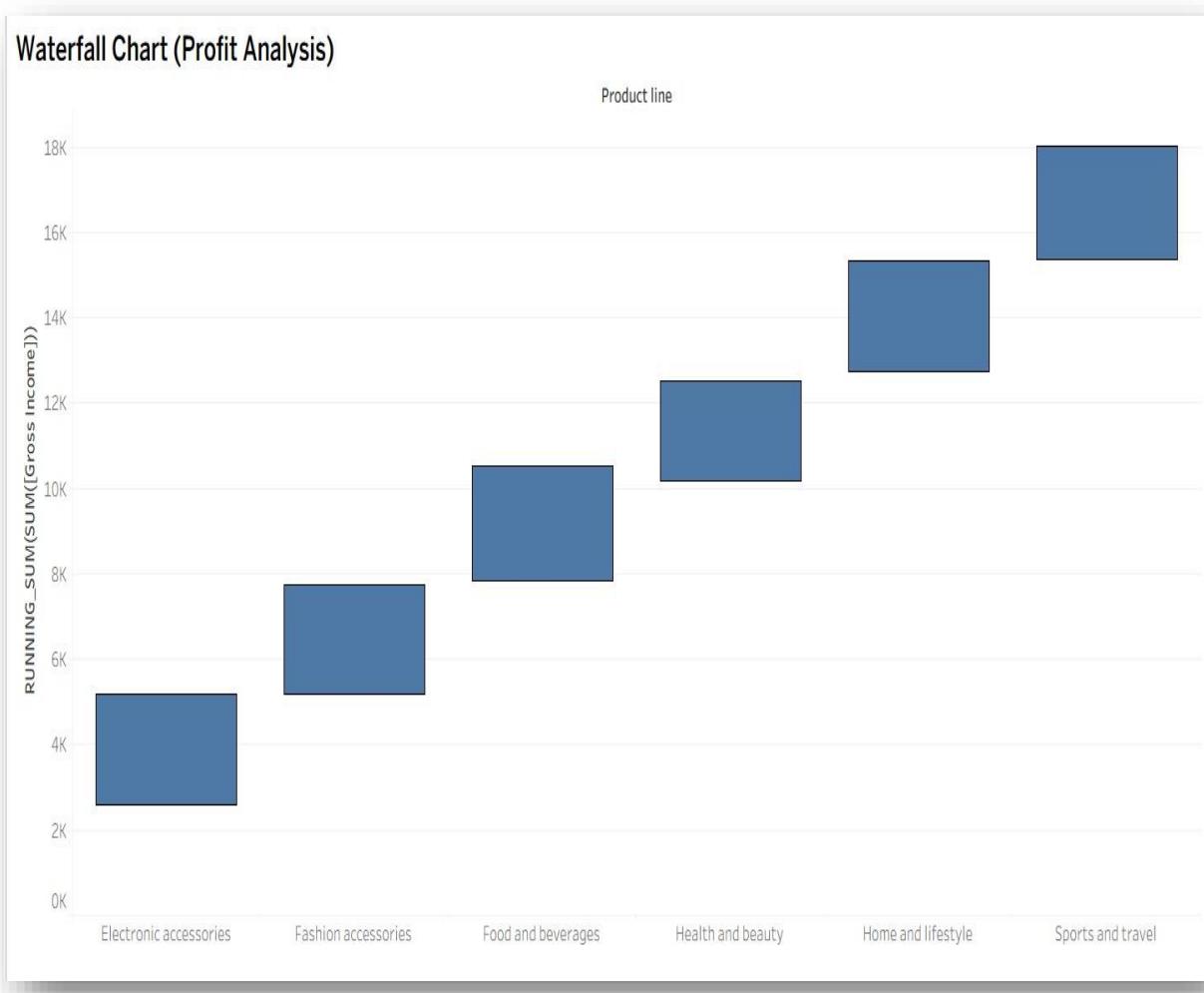
## **6. Funnel Chart – Sales by Product Line**



### **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.