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# DA Assignment - 1 Submission

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**Title:**

**Supermarket Sales Dashboard**

**Submitted by:**

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## Introduction

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**Objective:**

To analyse the sales performance of a supermarket chain operating in three branches over three months using Tableau visualizations. The data contains customer demographics, purchase behaviour, and sales figures.

**Tools Used:**

- Tableau Public/Desktop
- Supermarket Sales Dataset (Jan–Mar 2019)

**Dataset Source:**

*Supermarket Sales (Kaggle / Classroom link)*

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## Data Cleaning in Tableau

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**Steps Performed:**

- Imported CSV dataset into Tableau
- Removed unnecessary columns:
  - *Invoice ID* (unique identifier not required for analysis)

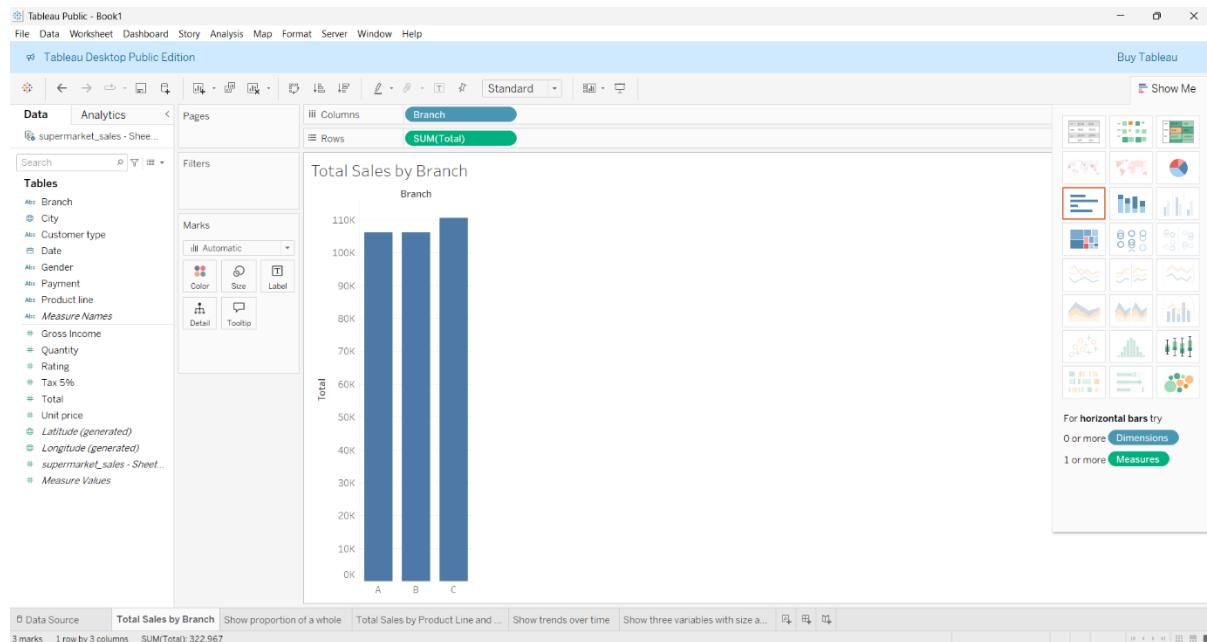
- COGS (already factored into other calculations)
  - Date/Time columns – not used in some dashboards
  - Renamed field names for better clarity (optional)
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## Visualizations + Insights

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### ◆ 1. Bar Chart – Total Sales by Branch

Screenshot:



**Purpose:** Compare values across categories

**Best Attribute Combination:**

- **Dimension:** Branch or Product Line
- **Measure:** Total or Gross Income

### 📌 Example:

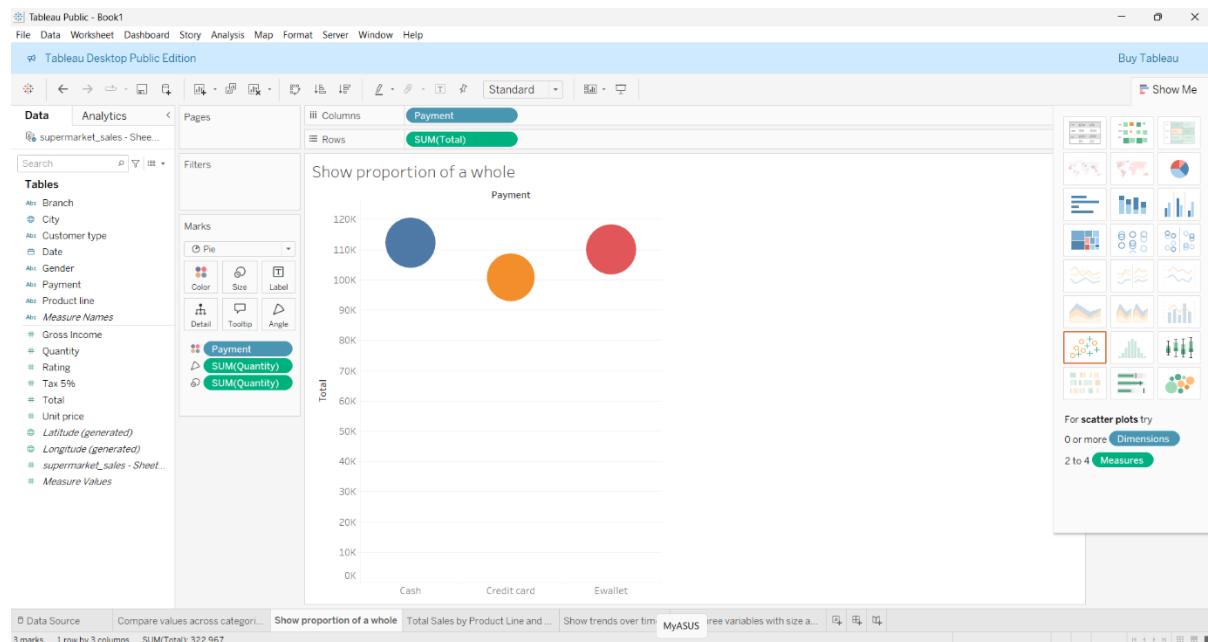
"Total Sales by Branch"

- **X-axis:** Branch (A, B, C)
- **Y-axis:** Total Sales

**💡 Insight:** Branch C has the highest total sales, followed by Branch A and B. This can be due to higher footfall or higher average transaction value.

## ✓ 2. Pie Chart

### Screenshot:



**Purpose:** Show proportion of a whole

**Best Attribute Combination:**

- **Dimension:** Payment or Customer Type
- **Measure:** Number of Records or Total

### 📌 Example:

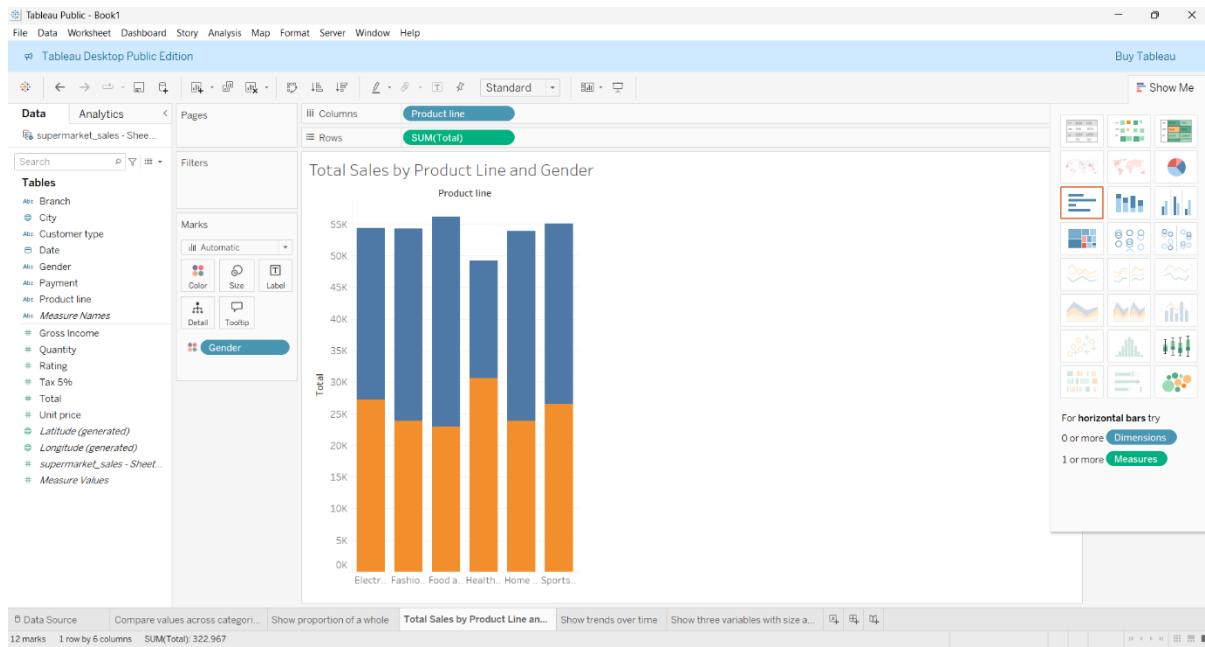
"Sales Distribution by Payment Method"

- Slice by: Payment Type (Cash, Credit Card, Ewallet)
- Size: Count of Transactions or Total Amount

**💡 Insight:** Understand preferred customer payment methods.

### 3. Stacked Bar Chart

Screenshot:



**Purpose:** Compare sub-category values across a main category

**Best Attribute Combination:**

- **Main Dimension (X):** Product Line
- **Subcategory (Color):** Gender or Customer Type
- **Measure (Y):** Total or Quantity

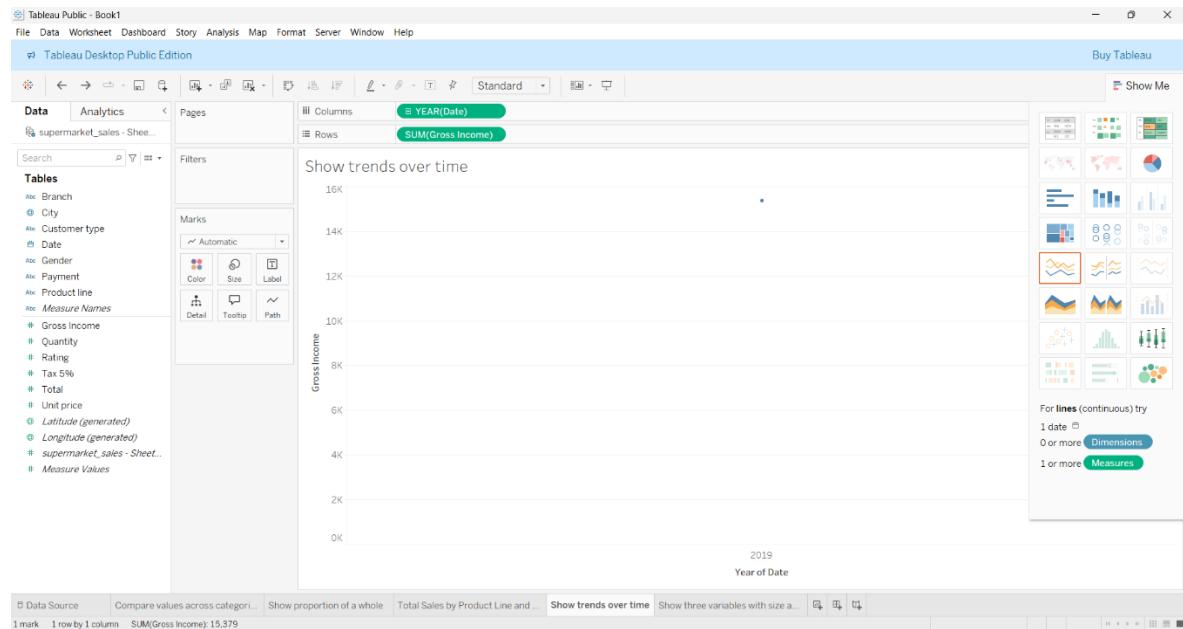
📌 **Example:**

"Total Sales by Product Line and Gender"

💡 **Insight:** Reveal customer preferences by gender for each product type.

## 4. Line Chart

### Screenshot:



**Purpose:** Show trends over time

**Best Attribute Combination:**

- **Dimension (X-axis):** Date (converted to Day or Month)
- **Measure (Y-axis):** Total or Gross Income

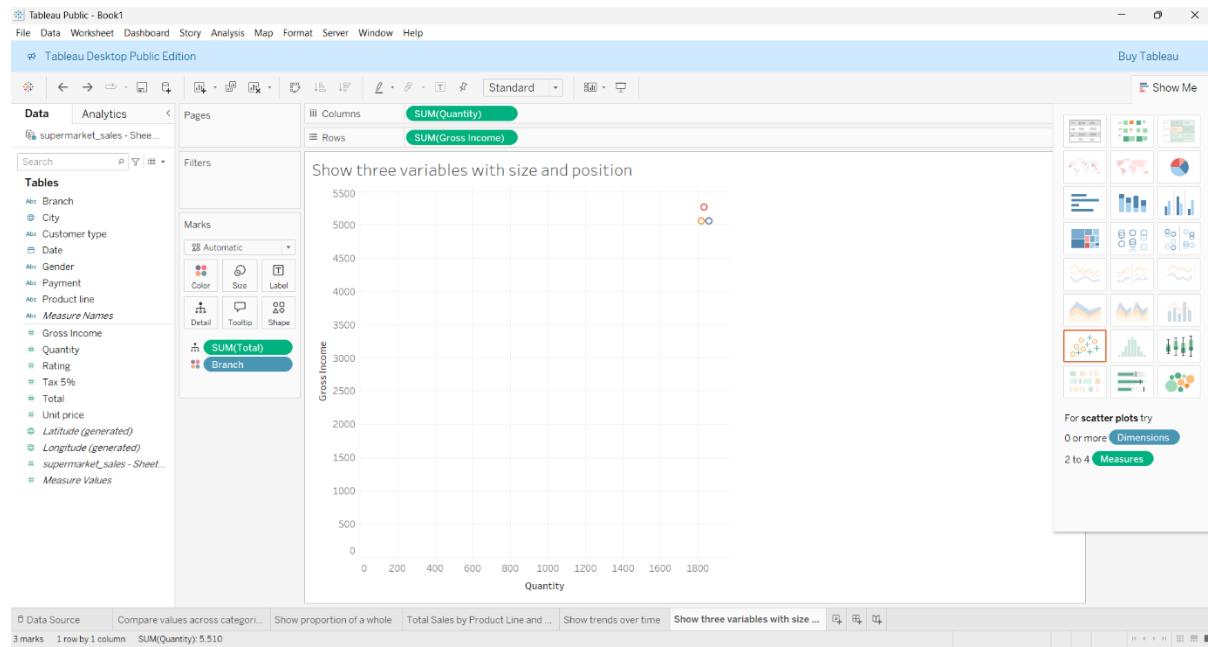
### Example:

"Daily Sales Trend Over 3 Months"

**Insight:** Detect sales patterns, promotions impact, or end-of-month spikes.

## 5. Bubble Chart

### Screenshot:



**Purpose:** Show three variables with size and position

### Best Attribute Combination:

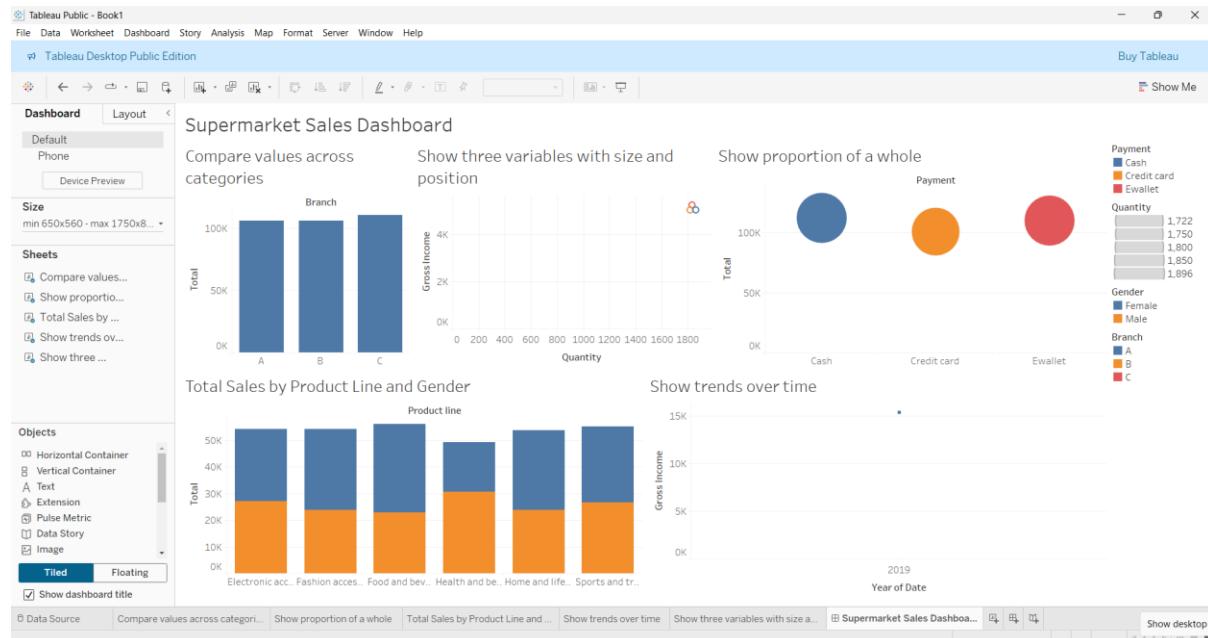
- **X-axis:** Quantity
- **Y-axis:** Gross Income
- **Size:** Total
- **Color:** Branch or Product Line

### Example:

"Gross Income vs Quantity by Product Line"

**💡 Insight:** Identify high-margin product lines or efficient selling items.

# Supermarket Sales Dashboard



## Conclusion

- Visualizations reveal valuable insights about branch performance, customer preferences, and sales behavior.
- Tableau helped quickly identify patterns such as peak sales periods, product popularity, and preferred payment methods.