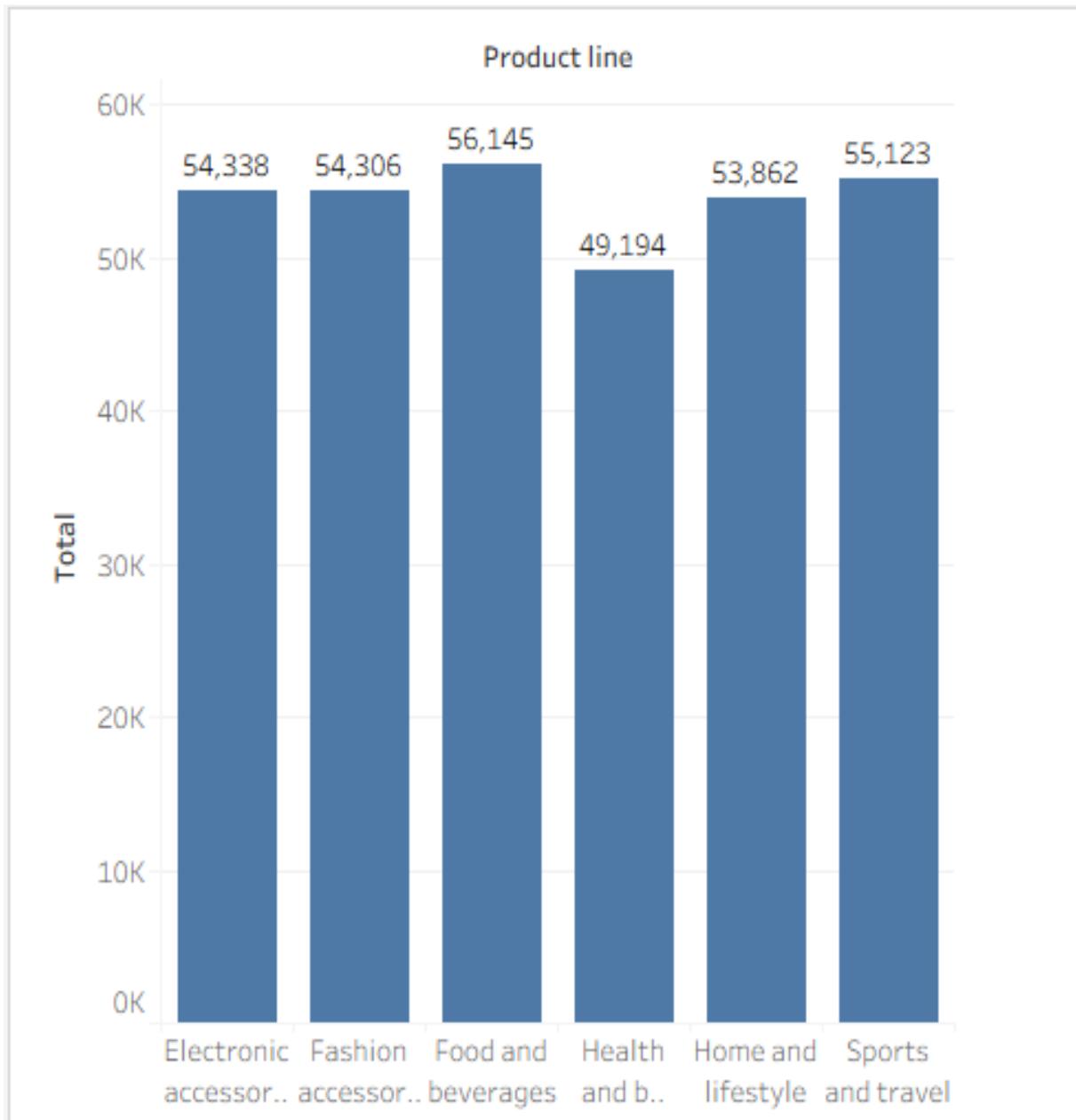


# ASSINGMENT-1

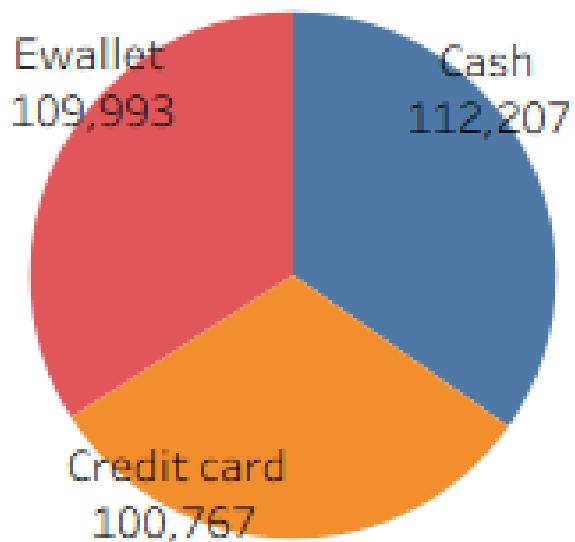
## 1. Bar Chart — Sales by Product Line



The bar chart shows the comparison of sales across different product categories. Some product lines clearly generate higher revenue than others. This indicates that customers prefer certain categories more. The highest bar represents the top-selling product line. Businesses can use this insight to focus on popular products and increase profits.

## 2. Pie Chart — Payment Method Distribution

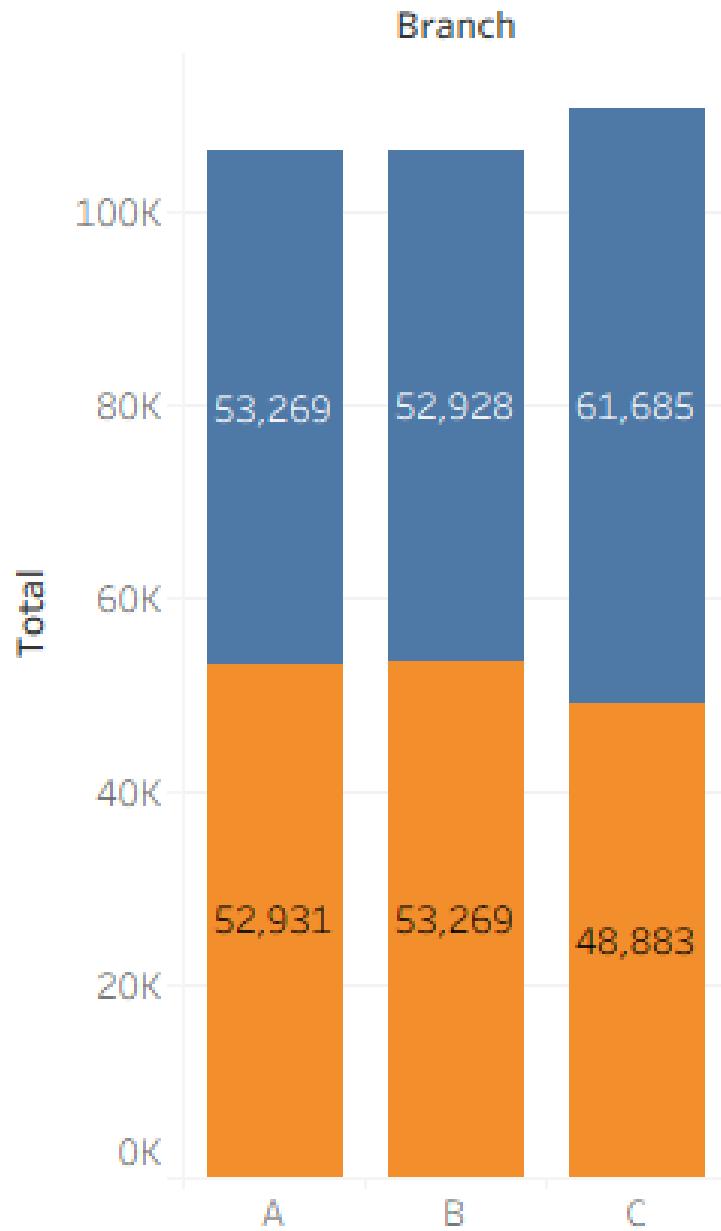
### <Payment Method Distribution>



The pie chart illustrates how customers choose different payment methods. One or two payment types occupy the largest portions of the chart. This shows that customers prefer convenient payment options. Smaller slices represent less frequently used methods. Businesses can improve service by supporting preferred payment modes.

### 3. Stacked Bar Chart — Sales by Branch and Gender

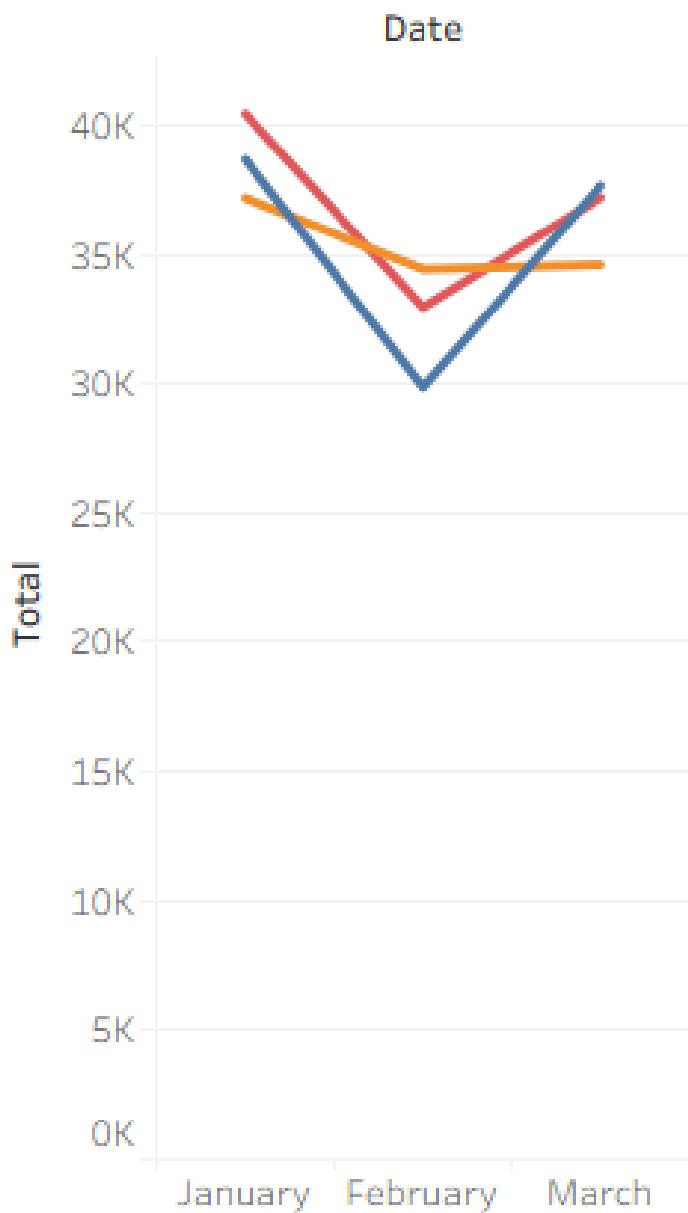
#### <Sales by Branch and Gender>



The stacked bar chart compares sales across branches and gender groups. Each bar shows the contribution of male and female customers. Some branches generate higher revenue than others. In certain branches, one gender contributes more to total sales. This helps businesses understand customer demographics and target marketing strategies.

#### 4. Line Chart — Sales Trend Over Time

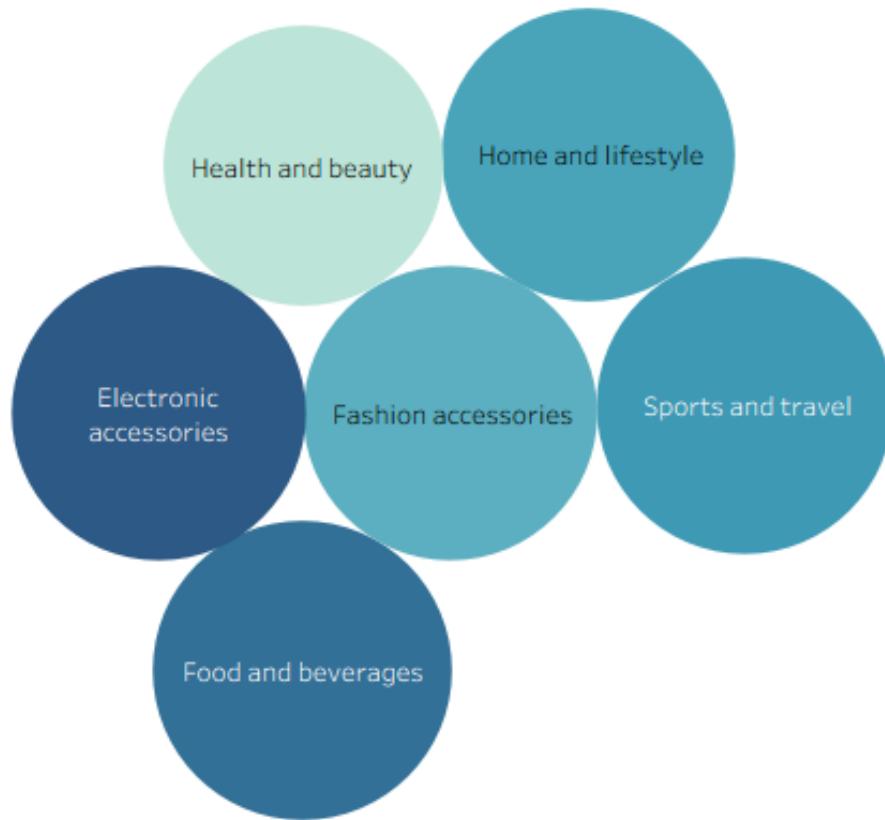
<Sales Trend Over Time>



The line chart shows how sales change across different dates or months. It highlights periods of increase and decrease in revenue. Some time periods record higher sales than others. This indicates seasonal trends or customer demand patterns. Businesses can use this information to plan promotions during peak periods.

## 5. Bubble Chart — Product Performance Analysis

<Product Performance Analysis>



The bubble chart compares product categories using size and color. Larger bubbles represent higher sales revenue. Darker colors indicate greater quantity sold. This makes it easy to identify top-performing products. Businesses can prioritize these products to maximize sales and customer satisfaction.

### Conclusion:

This analysis demonstrates how visual analytics can reveal important business patterns in sales performance, customer behavior, and product demand. The findings help businesses make informed decisions about marketing strategies, product placement, and customer targeting to improve overall profitability.

