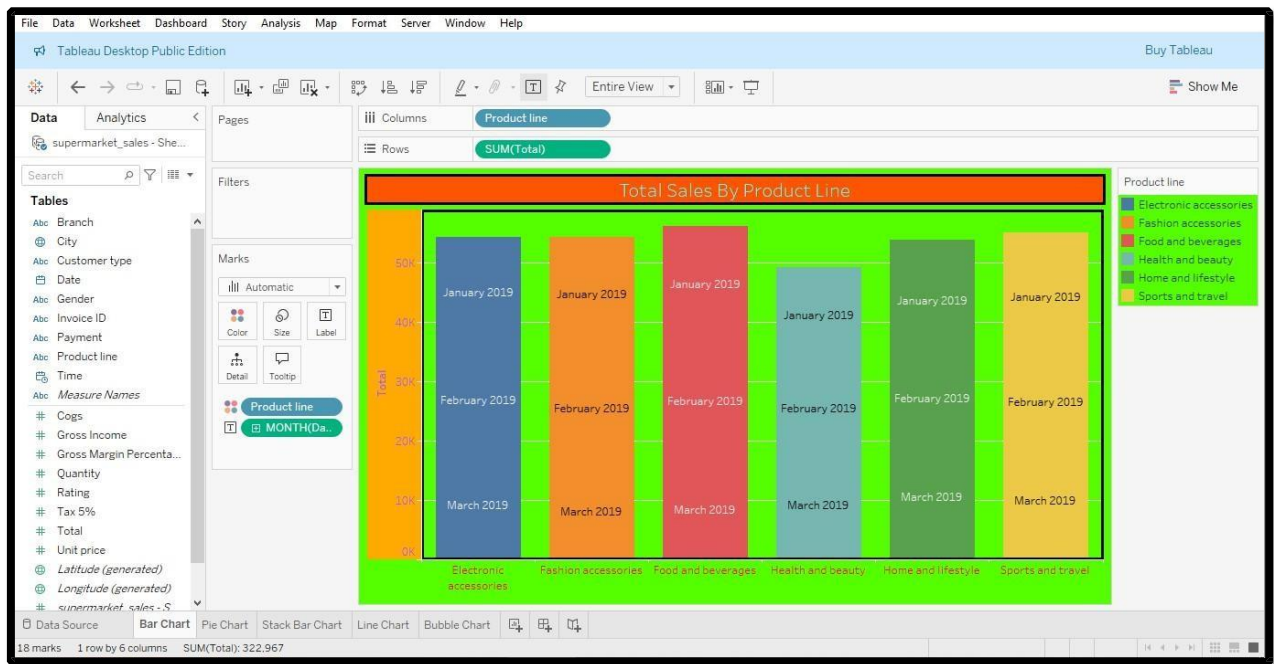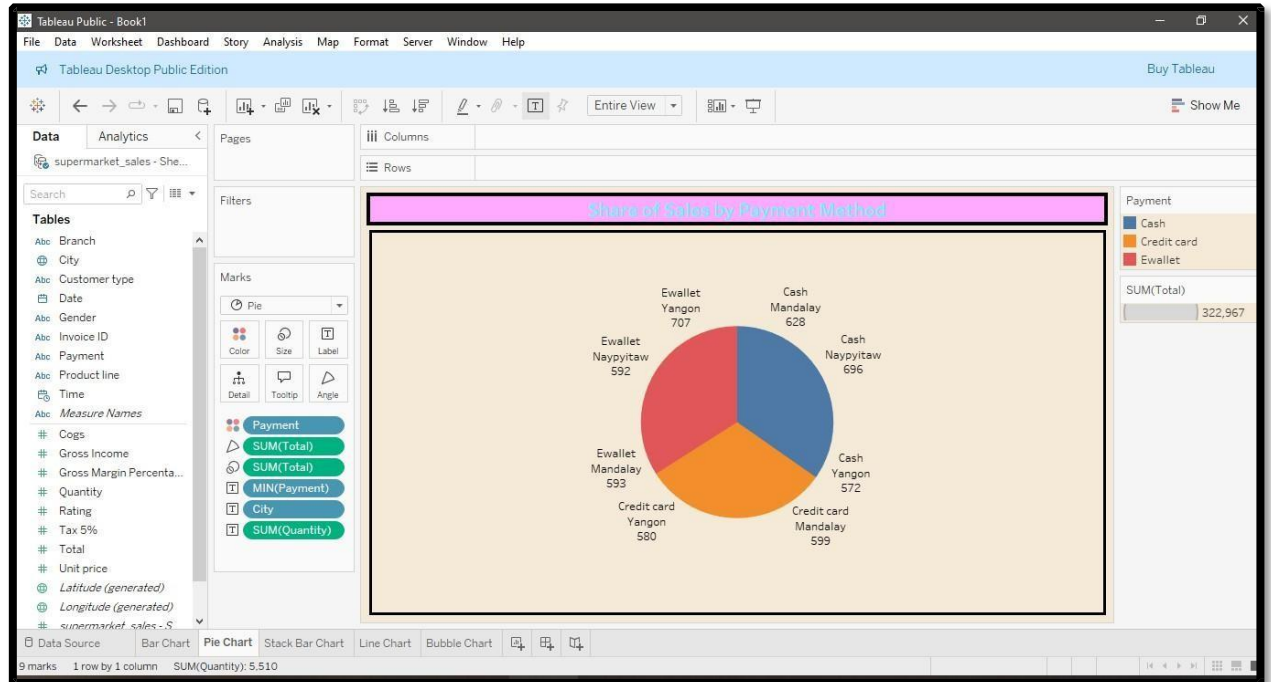# ASSIGNMENT-1

Bar Chart

- **Use Case:** Total Sales by Product Line
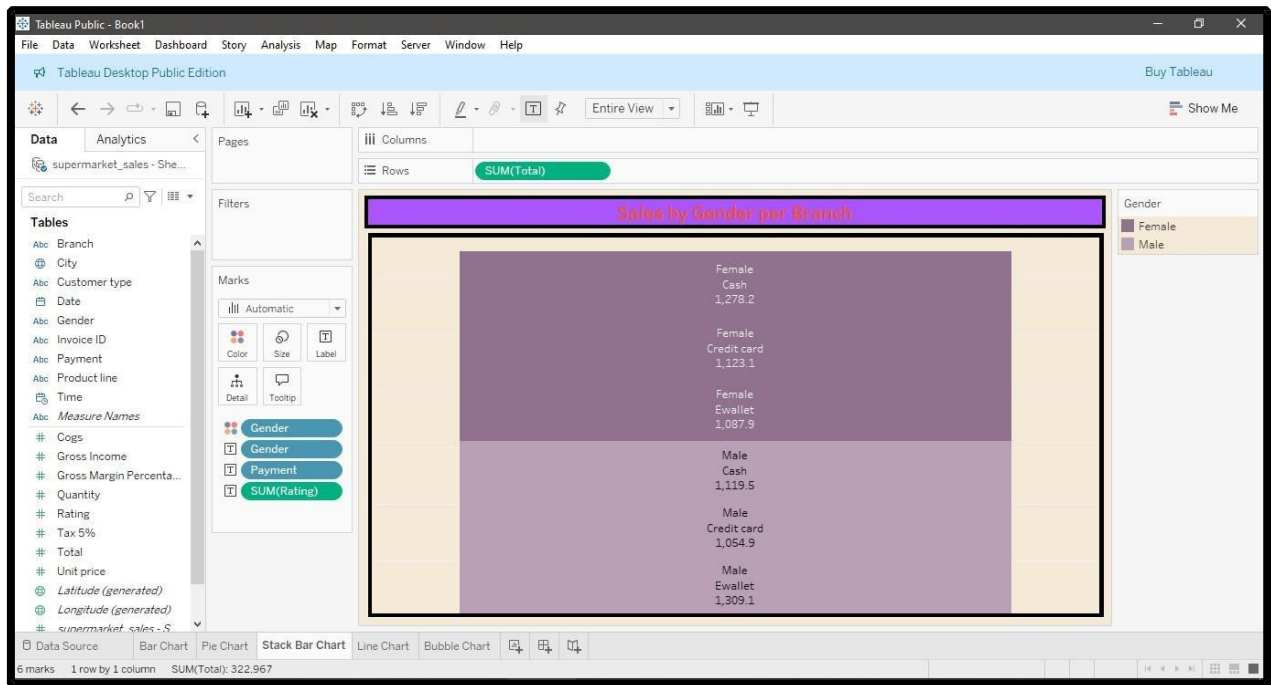- **Fields:** `Product line` (x-axis), `Total` (y-axis)

Pie Chart

- **Use Case:** Share of Sales by Payment Method
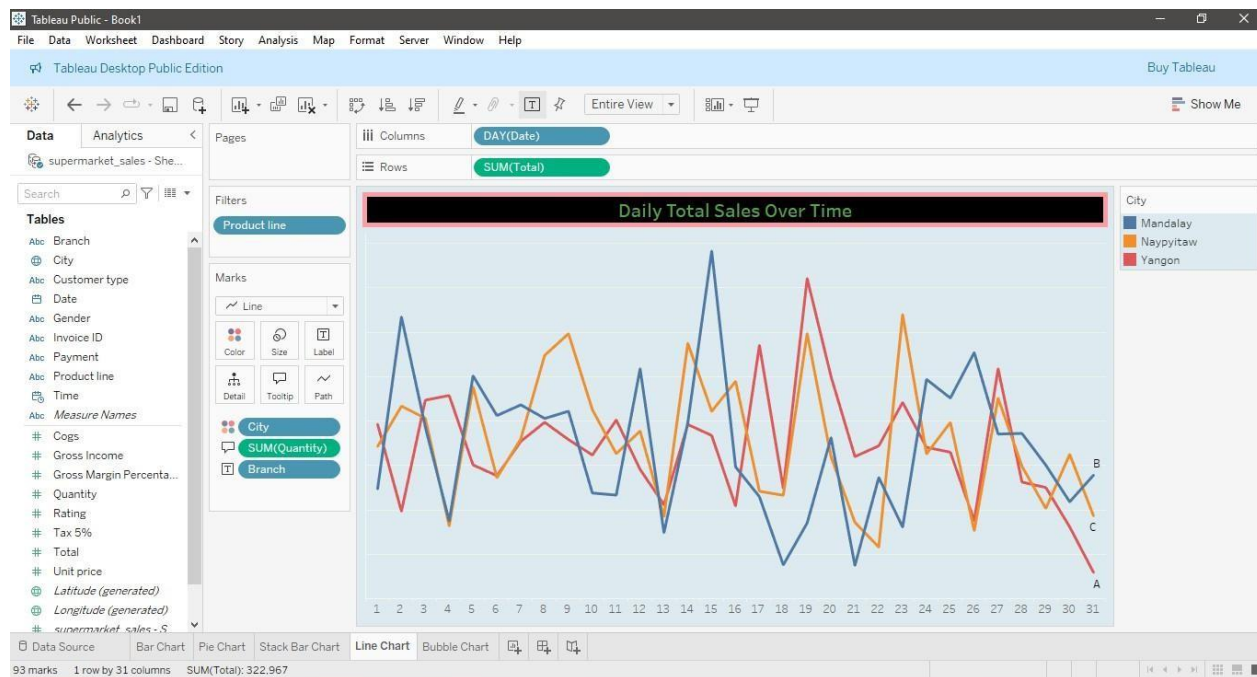- Fields: `Payment`, aggregated `Total`

Stacked Bar Chart

- **Use Case:** Sales by Gender per Branch
- Fields: `Branch` (x-axis), `Total` (y-axis), stacked by `Gender`
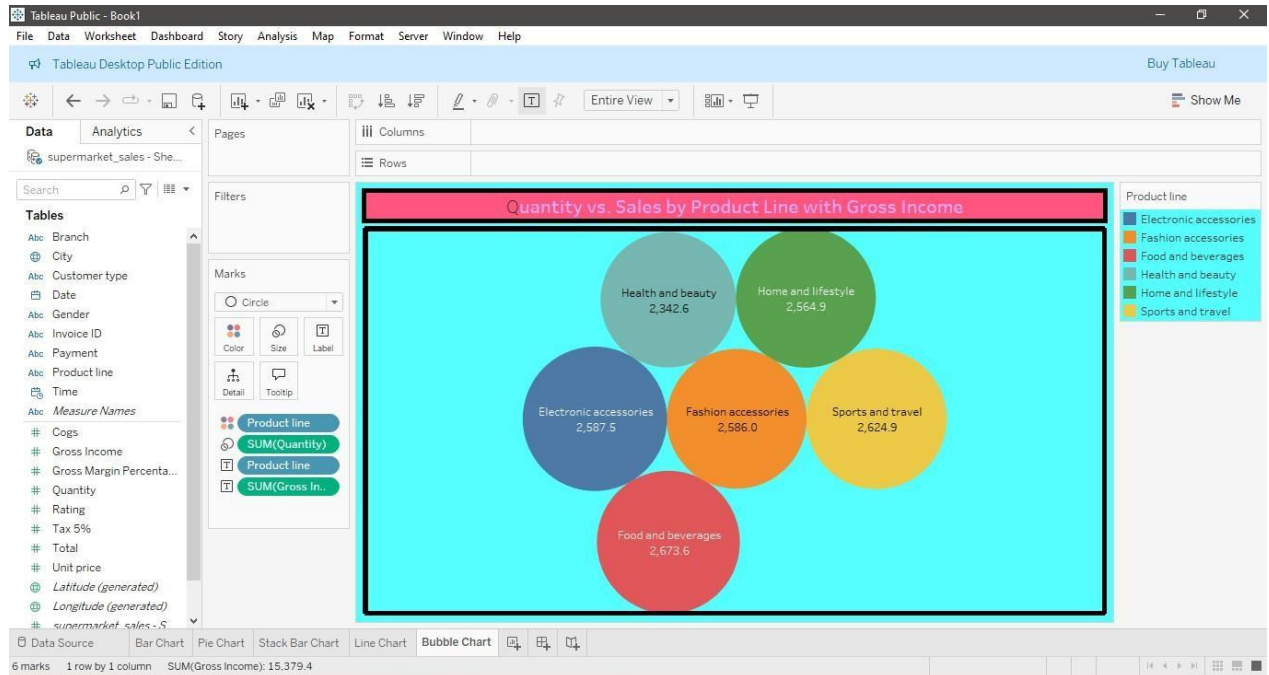
Line Chart

- **Use Case:** Daily Total Sales Over Time
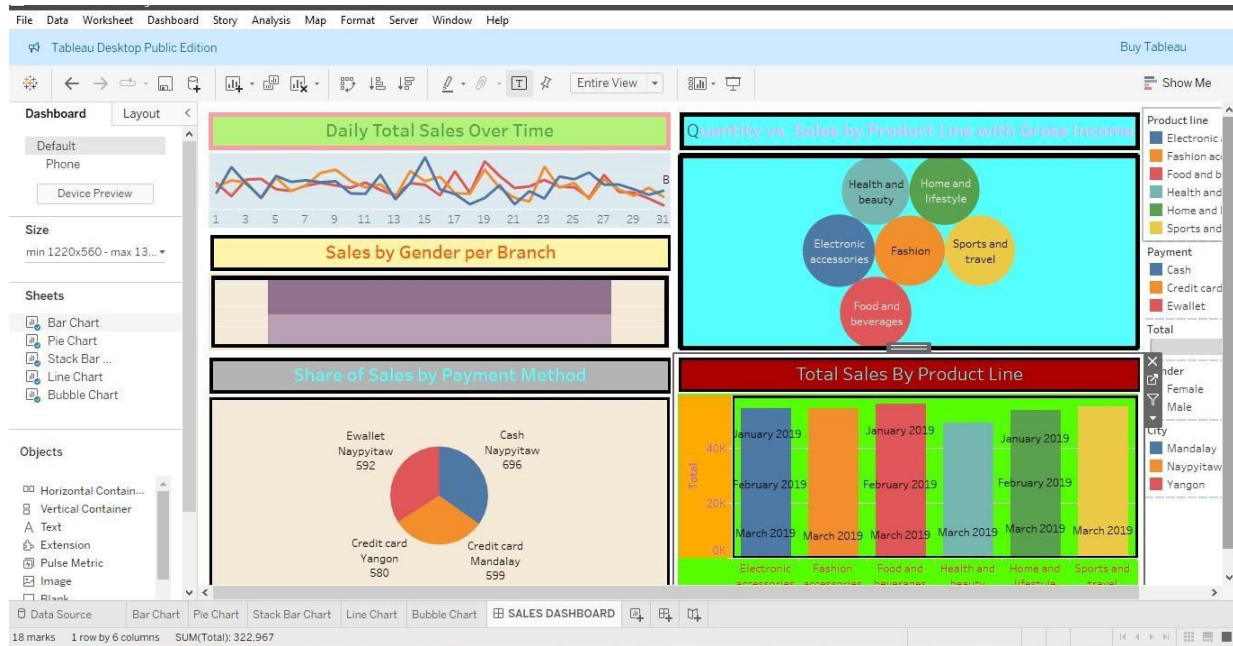- Fields: `Date`, aggregated `Total`

Bubble Chart

- **Use Case:** Sales vs. Quantity per Product Line, with Bubble Size as Gross Income
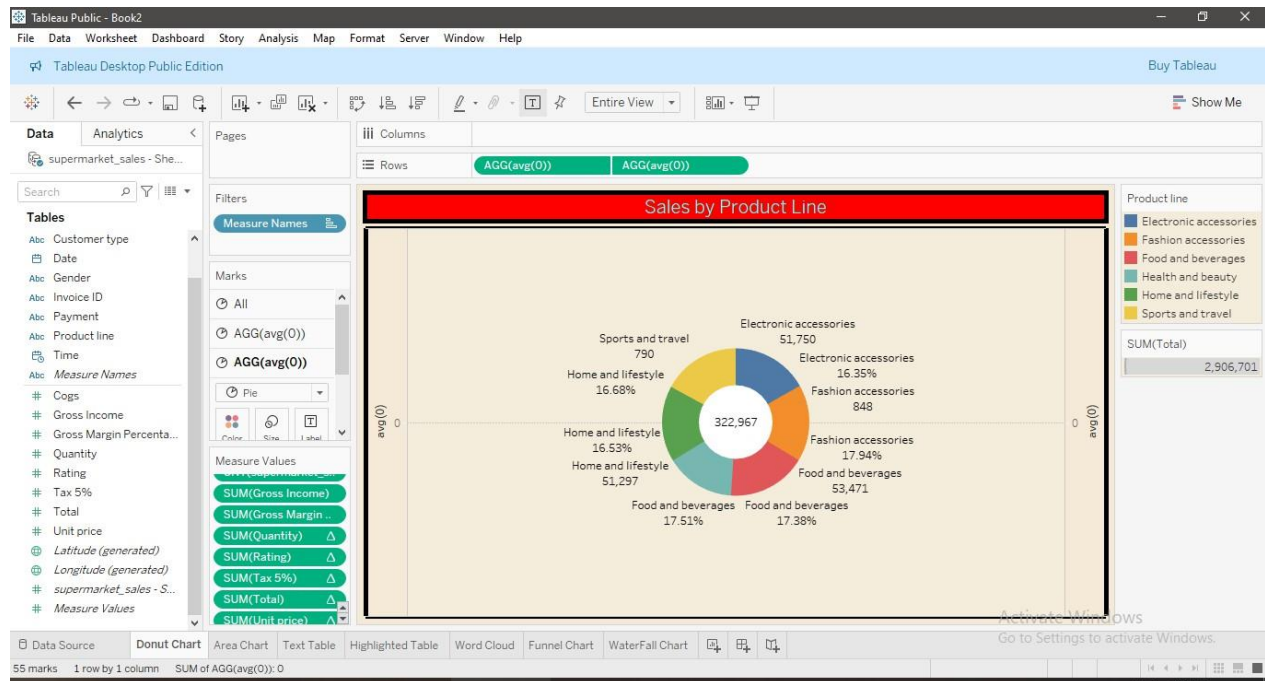- Fields: `Product line` (categorical), `Quantity`, `Total`, `gross income` as bubble size
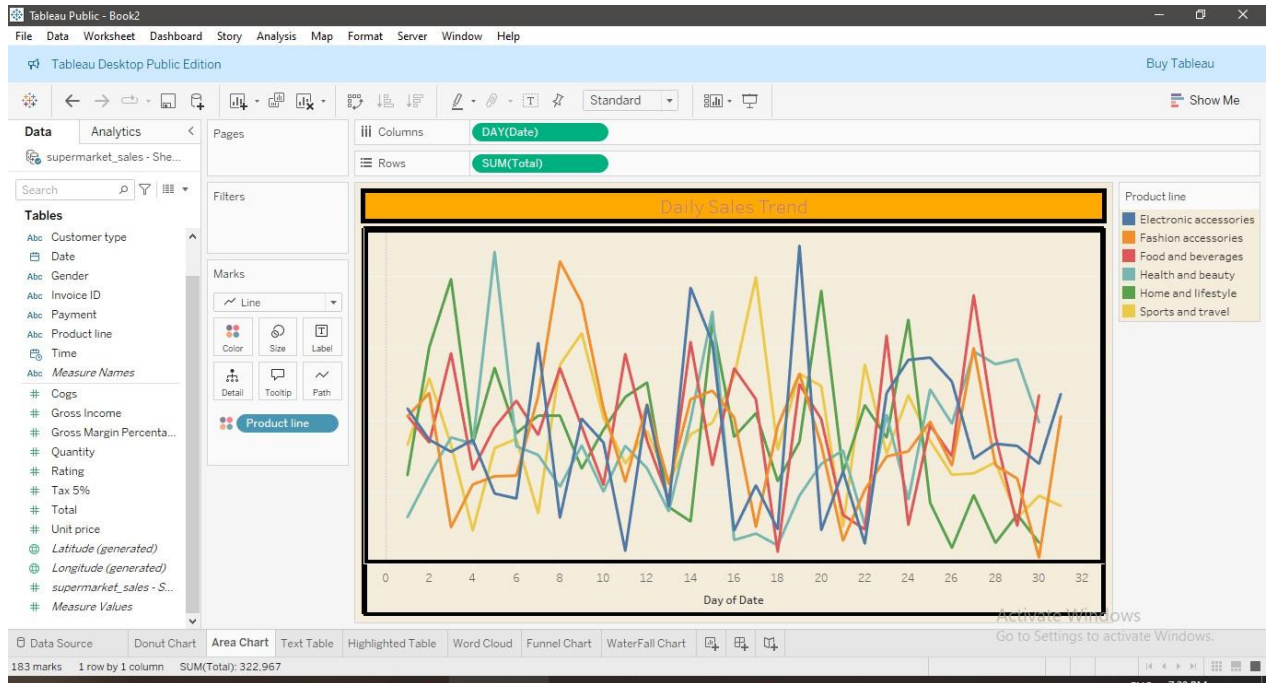
Dashboard-1

ASSIGNMENT-2

1. Donut Chart – Sales by Product Line

- **Rows / Columns:** Use `SUM(Total)`
- **Color:** `Product line`
- **Marks:** Pie chart
- Create a **dual-axis pie chart** with:
    - Outer pie: `Product line`
    - Inner pie: blank or white circle for the "hole"
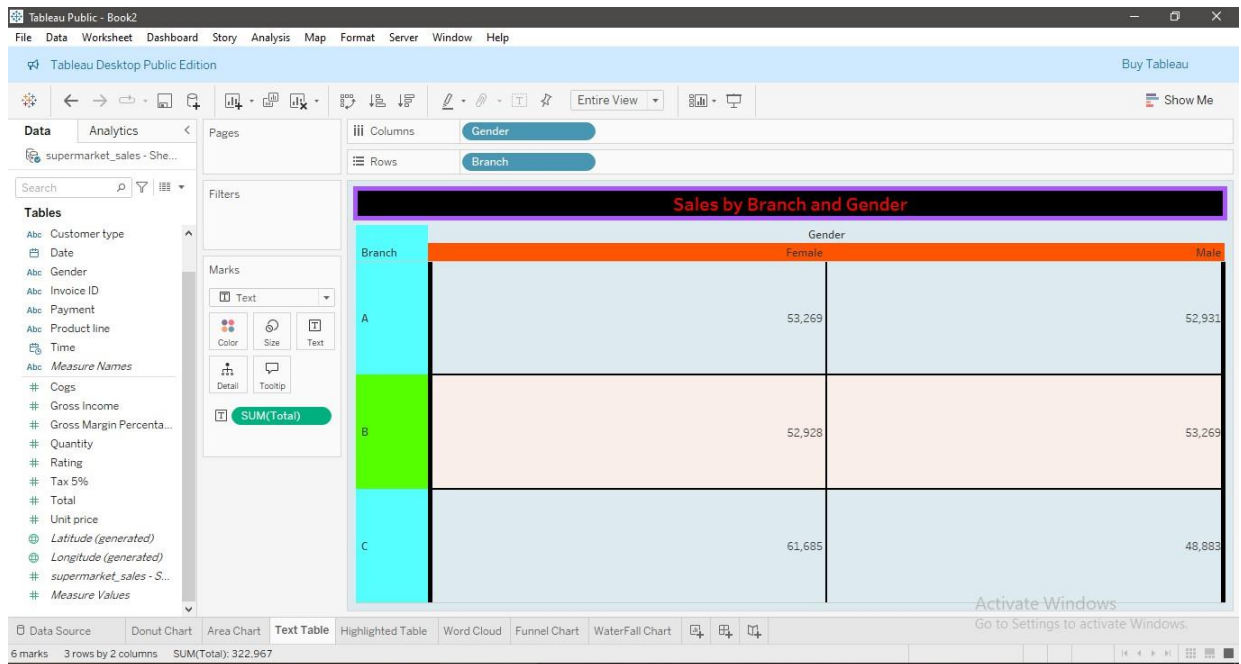- Adjust the size of the inner circle to achieve the donut effect.

2. Area Chart – Daily Sales Trend

- **Columns:** `Day`
- **Rows:** `SUM(Total)`
- **Marks:** Area
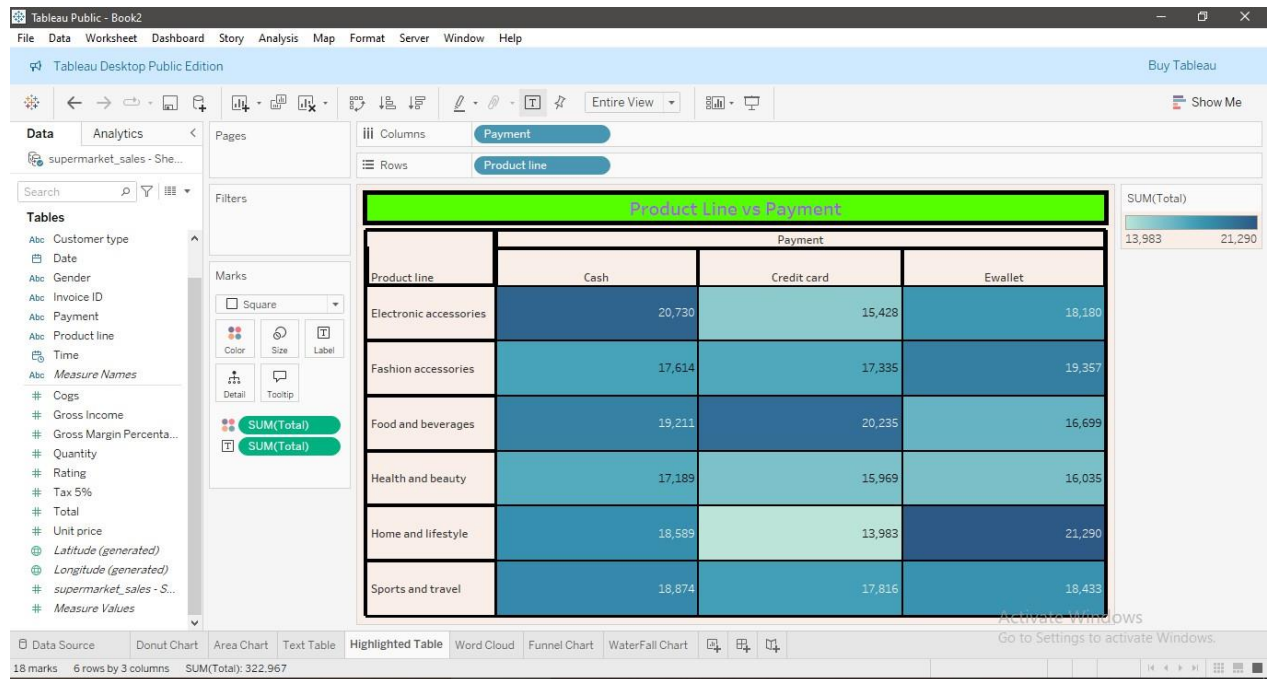- **Color:** Optional — by `City` or `Product line` for layered areas

3. Text Table – Sales by Branch and Gender

- **Rows:** `Branch`
- **Columns:** `Gender`
- **Text:** `SUM(Total)`
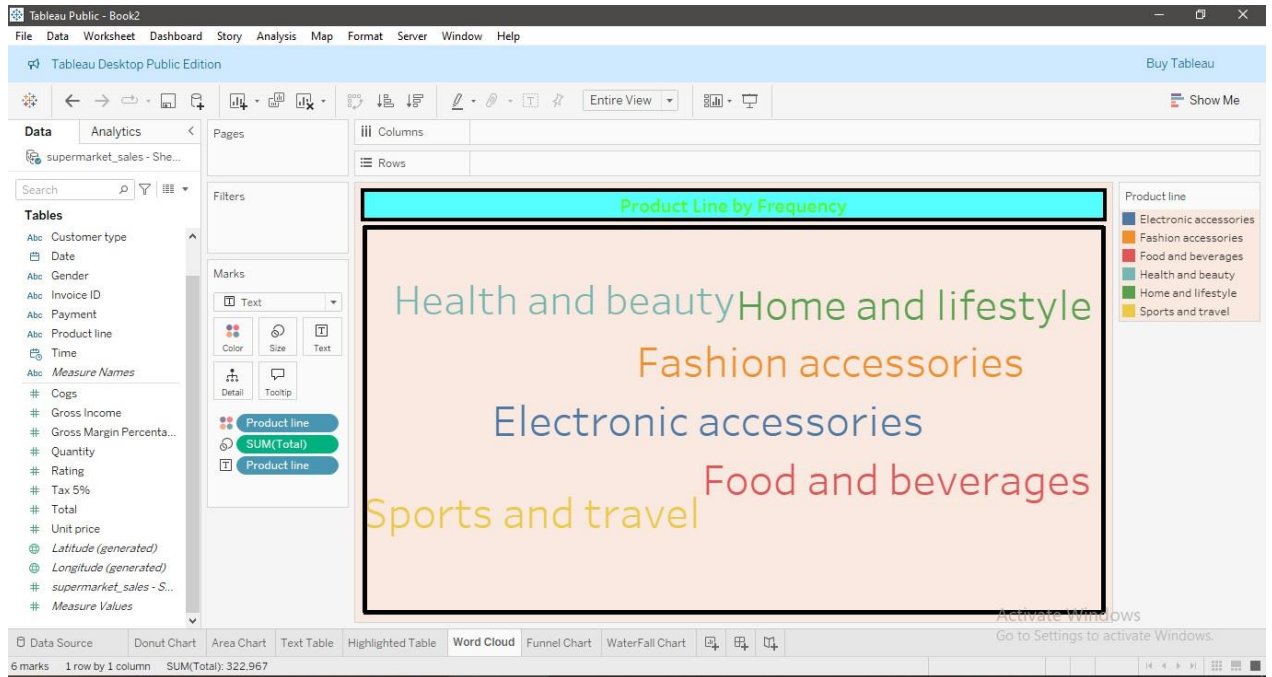- Set **Mark Type** to **Tex**

4. Highlighted Table – Sales by Product Line and Payment

- **Rows:** `Product line`
- **Columns:** `Payment`
- **Text:** `SUM(Total)`
- **Color:** `SUM(Total)`
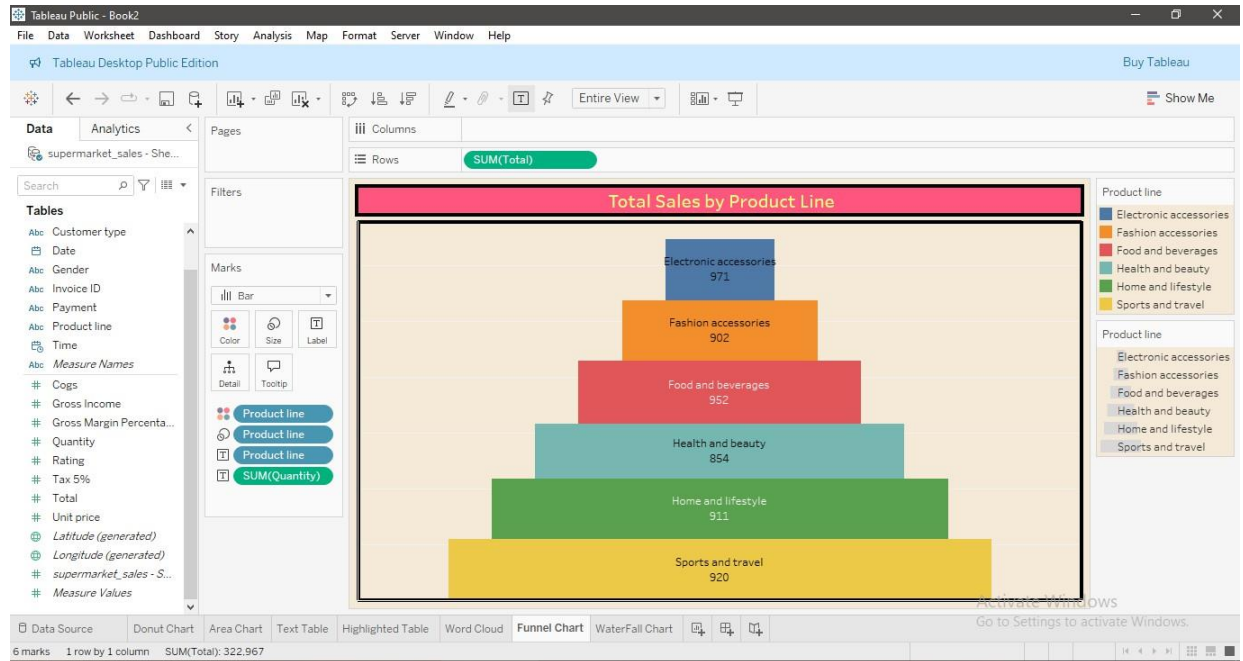- Set **Mark Type:** Square (for background color effect)

5. Word Cloud – Product Line by Frequency

- **Text:** `Product line`
- **Size:** `COUNT(Invoice ID)` or `SUM(Total)`
- Set **Mark Type:** Text
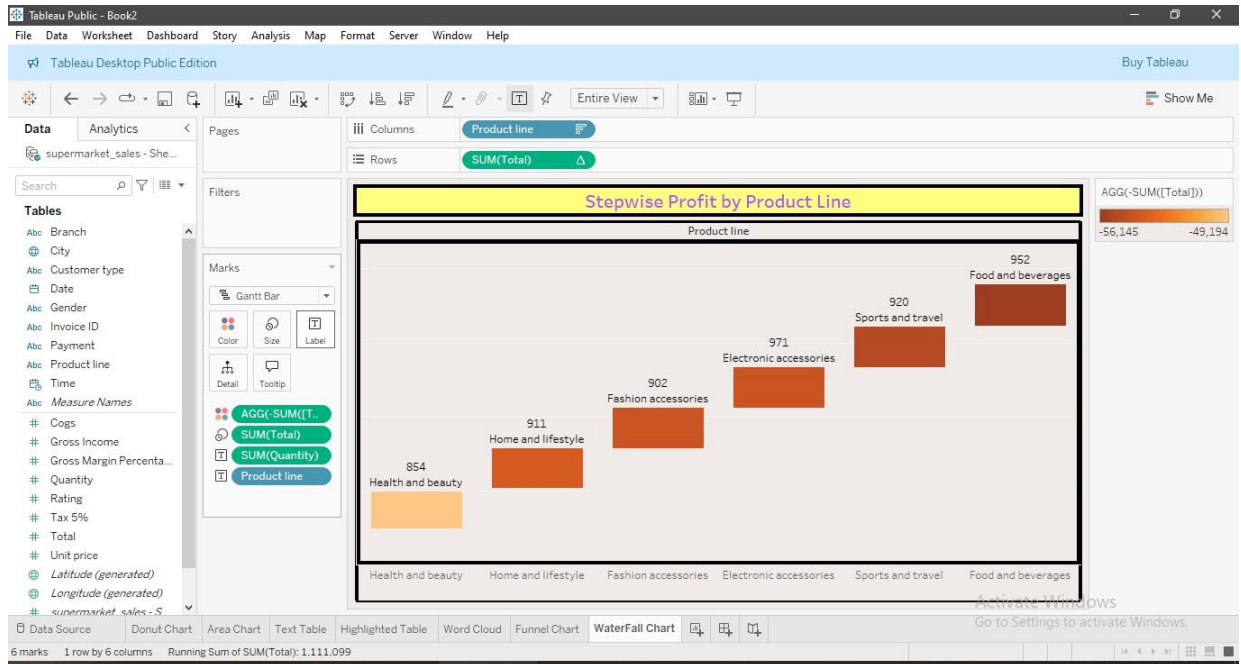- Tableau will size and color based on measure

6. Funnel Chart – Total Sales by Product Line

- **Rows:** `Product line`
- **Columns:** `SUM(Total)`
- **Sort Descending** by `SUM(Total)`
- Set **Mark Type:** Gantt Bar or Bar
- Adjust sizing to create funnel shape (top-heavy

7. Waterfall Chart – Stepwise Profit Change by Product Line

- **Columns:** `Product line`
- **Rows:** `SUM(gross income)`
- Create a **calculated field** for `Running Total`
- Use Gantt Bar marks with **size set to gross income**

Dashboard-2