**TASK 2.**

**I. Data Connection and Preparation:**

1. **Connect to the "Superstore" Dataset:** The first step would be to connect the data visualization tool (Tableau or Power BI) to the "Superstore.csv" file or the relevant data source.
2. **Review Data:** Examine the columns and data types to ensure they are correctly recognized.
3. **(Optional) Data Cleaning/Transformation:** If needed, perform any data cleaning steps (e.g., handling missing values) or transformations (e.g., creating calculated fields for profit margin).

**II. Creating Individual Visualizations:**

Based on the layout, we can identify the following individual charts and metrics:

1. **Key Performance Indicators (KPIs) at the Top Left:**
   * **Total Sales:**
     + **Calculation:** Sum of the "Sales" column.
     + **Visualization:** A simple text card displaying the total sales value (2.30M).
   * **Total Quantity:**
     + **Calculation:** Sum of the "Quantity" column.
     + **Visualization:** A simple text card displaying the total quantity (38K).
   * **Total Profit:**
     + **Calculation:** Sum of the "Profit" column.
     + **Visualization:** A simple text card displaying the total profit (286.34K).
2. **Sales by Year and Quarter (Top Middle):**
   * **X-axis:** "Order Date" aggregated by Year and then Quarter.
   * **Y-axis:** Sum of "Sales".
   * **Visualization:** A line chart showing the trend of sales over time, broken down by quarters within each year.
3. **Profit by Sub-Category (Middle Left):**
   * **Rows:** "Sub-Category".
   * **Columns:** Sum of "Profit".
   * **Visualization:** A horizontal bar chart showing the total profit for each sub-category. Bars extending to the left likely indicate negative profit.
4. **Profit by Segment (Top Right):**
   * **Dimension:** "Segment".
   * **Measure:** Sum of "Profit".
   * **Visualization:** A donut chart (or a pie chart) showing the proportion of total profit contributed by each segment (Consumer, Corporate, Home Office).
5. **Profit by Region (Middle Right):**
   * **Dimension:** "Region".
   * **Measure:** Sum of "Profit".
   * **Visualization:** Another donut chart (or a pie chart) showing the proportion of total profit contributed by each region (Central, East, South, West).
6. **Profit by Category (Bottom Right):**
   * **Dimension:** "Category".
   * **Measure:** Sum of "Profit".
   * **Visualization:** A third donut chart (or a pie chart) showing the proportion of total profit contributed by each category (Furniture, Office Supplies, Technology).
7. **Profit by State (Left Side - List):**
   * **Rows:** "State".
   * **Measure:** Sum of "Profit".
   * **Visualization:** A text table or a simple list of states with their corresponding total profit. The states are likely ordered by profit (either ascending or descending).

**III. Dashboard Creation and Arrangement:**

1. **Create a New Dashboard:** In Tableau or Power BI, create a new dashboard.
2. **Drag and Drop Visualizations:** Drag the individual charts and KPIs created in the previous steps onto the dashboard canvas.
3. **Arrange the Layout:** Position and resize the visualizations to match the layout seen in the image. This involves arranging the KPIs at the top, the line chart and bar chart in the middle, the donut charts on the right, and the state-wise profit list on the left.
4. **Add Titles and Formatting:** Add clear titles to each visualization and the overall dashboard. Format colors, fonts, and labels for better readability and visual appeal. The dark background with light text is a stylistic choice made during formatting.
5. **(Optional) Add Interactivity:** The dashboard might include filters (though none are explicitly visible in this static image) to allow users to explore the data by different dimensions (e.g., year, region, category).

**IV. Final Review and Export:**

1. **Review the Dashboard:** Ensure all visualizations are displaying the correct information and that the layout is clear and easy to understand.
2. **Export or Share:** Export the dashboard as a PDF or share it through the platform's sharing option

A screenshot of a computer

AI-generated content may be incorrect.