**Assignment 3: Data Visualization in Excel/Google Sheets**

**Overview:**

In this assignment, you will practice creating a variety of charts and a pivot table using a sample sales dataset. These tasks will help you gain confidence in visualizing data trends, comparing categories, and summarizing information in Excel (or Google Sheets).

**Dataset:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Month | Product | Region | Sales | Profit |
| January | Product A | North | 5000 | 2000 |
| February | Product B | East | 4000 | 1500 |
| March | Product C | South | 6000 | 2500 |
| April | Product A | North | 7000 | 3000 |
| May | Product B | West | 8000 | 3500 |
|  |  |  |  |  |
| June | Product C | East | 9000 | 4000 |
|  |  |  |  |  |

**Tasks:**

1.       1. Bar Chart (Monthly Sales)

·       - Create a bar chart showing Sales for each Month.

·       - Label the X-axis as "Month" and the Y-axis as "Sales".

·       - Add the chart title: Monthly Sales Bar Chart.

2.       2. Column Chart (Product Profit Comparison)

·       - Insert a column chart comparing Profit across Products.

·       - Place Product on the X-axis and Profit on the Y-axis.

3.       3. Pie Chart (Sales by Region)

·       - Build a pie chart displaying the percentage of total Sales contributed by each Region.

·       - Enable data labels to show percentage values on each slice.

4.       4. Line Chart (Sales Trend)

·       - Draw a line chart to illustrate the trend of Sales over the six months.

·       - Title the chart: Monthly Sales Trend.

5.       5. Scatter Plot (Sales vs. Profit)

·       - Create a scatter plot to explore the relationship between Sales and Profit.

·       - Add the title: Sales vs Profit Scatter Plot.

6.       6. Pivot Table (Total Sales by Region)

·       - Generate a pivot table summarizing Total Sales per Region.

·       - Place Region in Rows and Sales in Values.