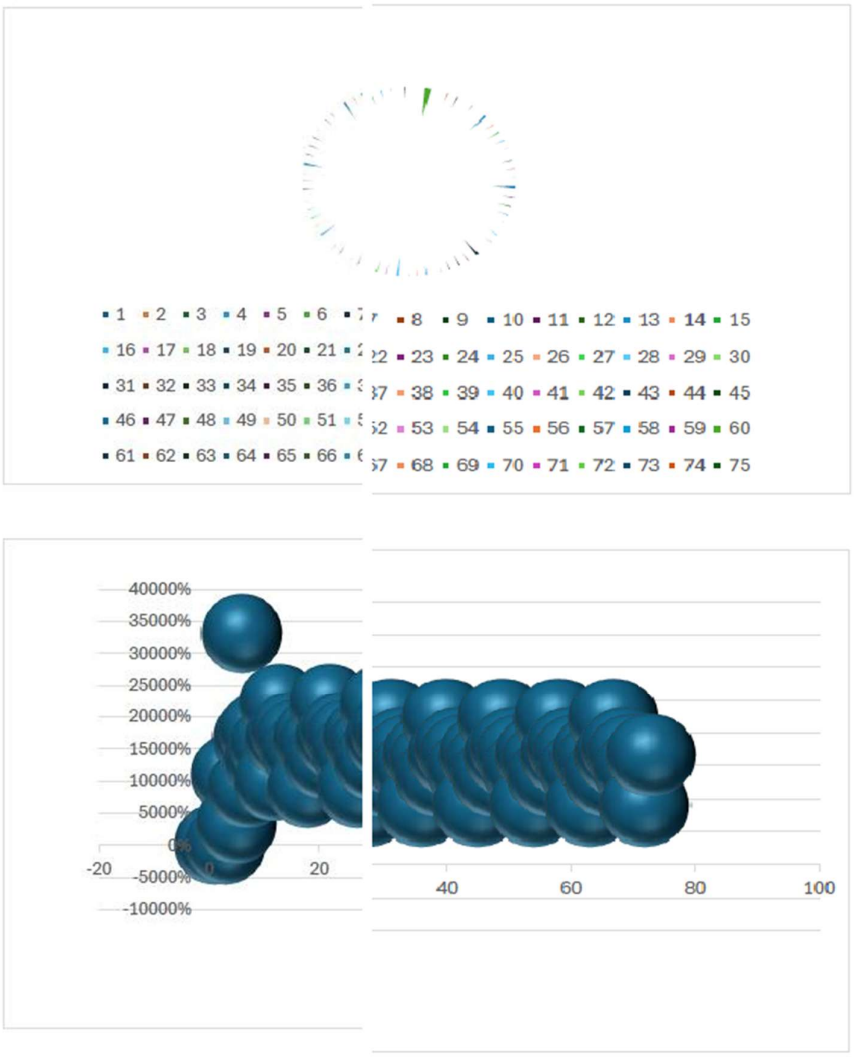
Experiment 1. Microsoft Excel with Dataset for Creation of Various Graphs

Aim:

To use Microsoft Excel to visualize a dataset by creating various types of graphs such as bar charts, line graphs, and pie charts.

Output:



Result:

Various graphs were successfully created in Microsoft Excel, providing clear visual representation and insights into the dataset's trends and patterns.

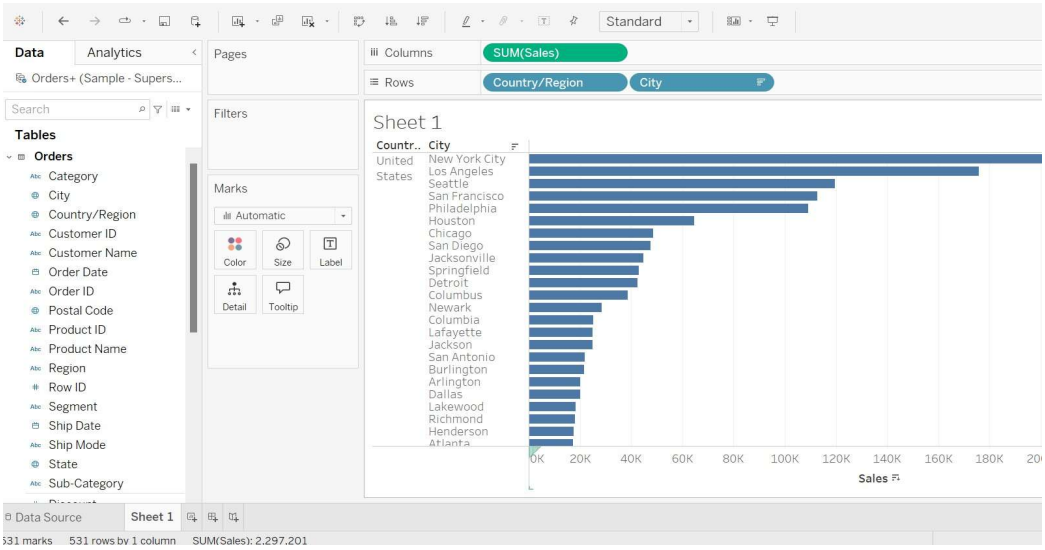
Experiment 2. Tableau, Salesforce Inc with Dataset for Creation of Various Graphs

Aim:

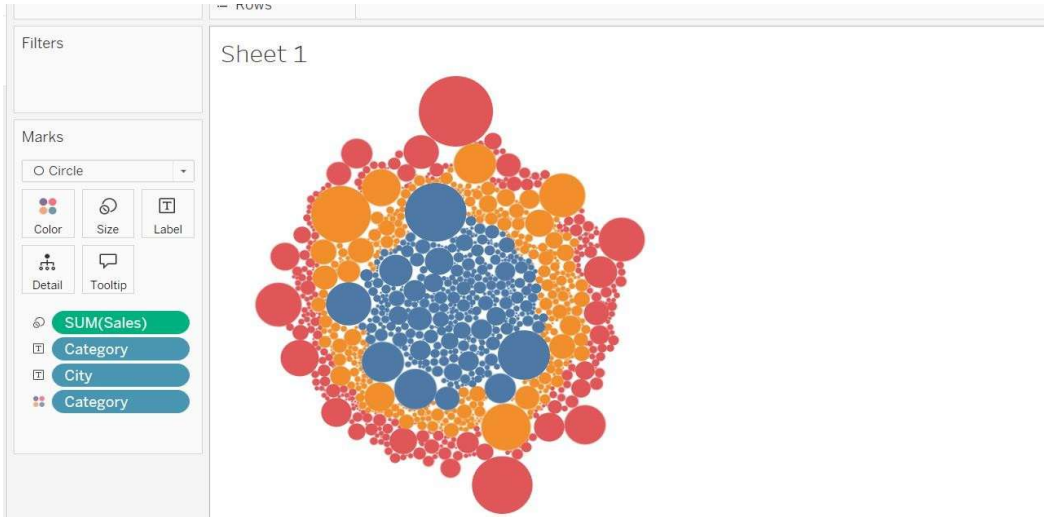
To connect Salesforce data to Tableau and generate multiple visualizations for better understanding and analysis of business metrics.

Output:

Bar Chart



Bubble Chart



Result:

Salesforce data was integrated with Tableau, and a variety of graphs (e.g., bar charts, line charts, and pie charts) were generated to highlight key performance indicators.

Experiment 3. Using Tableau and Dataset, Create Visualization with Filtering and Sorting of Data

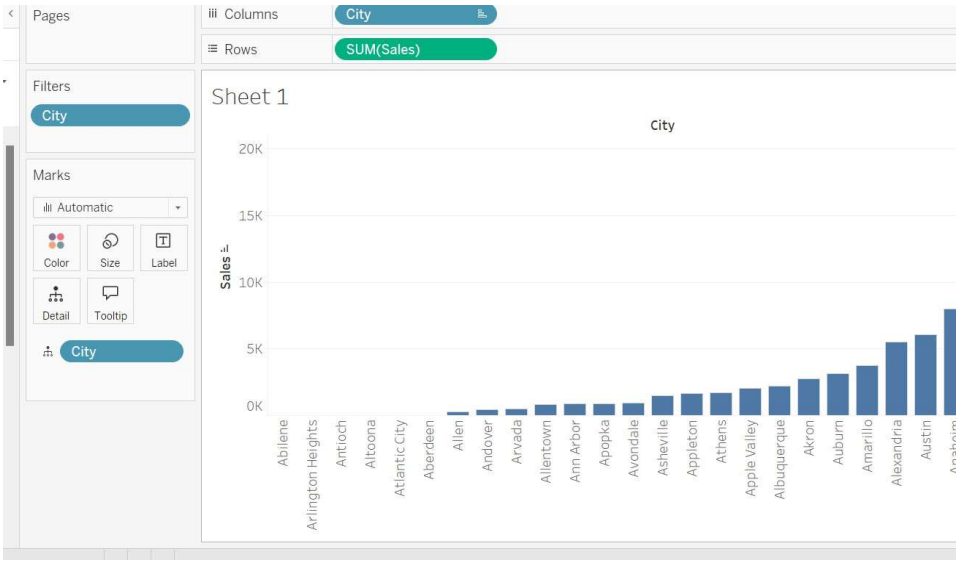
Aim:

To enhance data analysis by applying filtering and sorting functionalities in Tableau visualizations.

Output:

Showing only Top 10 Data

Sorting in Ascending Order:



Result:

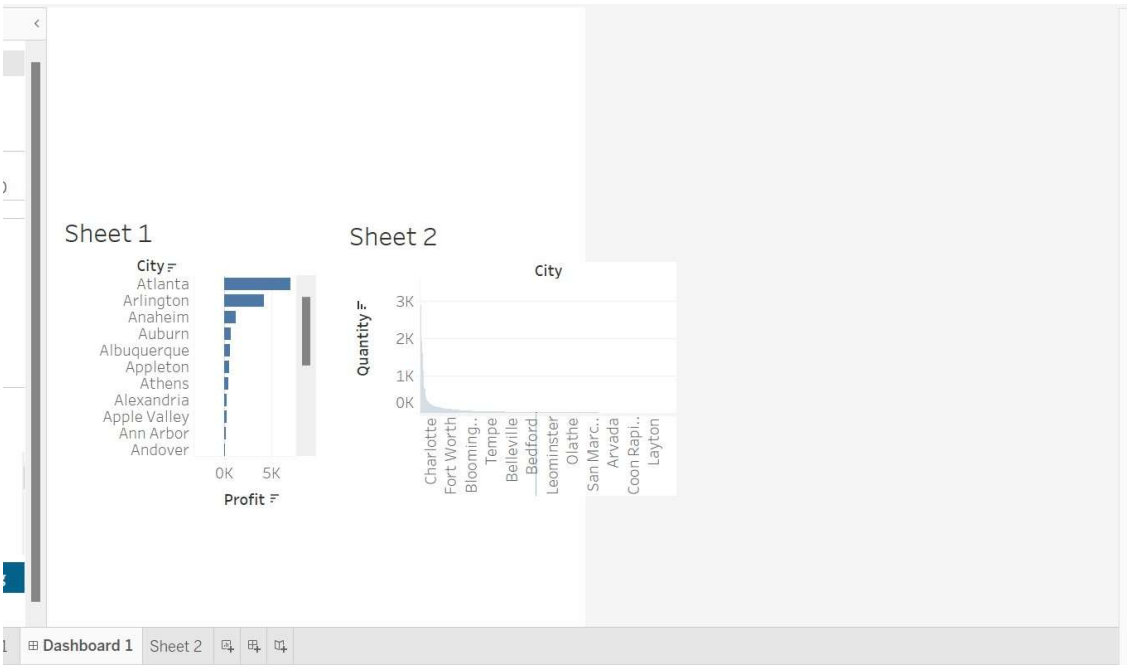
Interactive visualizations were created in Tableau, successfully demonstrating how filters and sorting can be used to drill down into specific data segments and trends.

Experiment 4. Organize Tableau Dashboard, with a Dataset Learning's from Worksheet

Aim:

To design a cohesive Tableau dashboard by combining multiple worksheet insights into a single interface for comprehensive data analysis.

Output:



Result:

A well-structured dashboard was created in Tableau, consolidating multiple views from worksheets and allowing for dynamic data exploration.

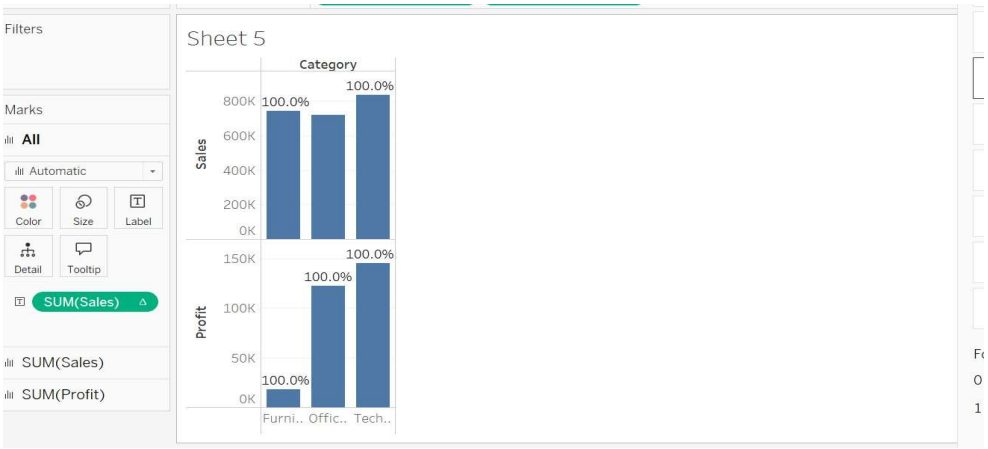
Experiment 5. Using Table Calculations, Create Data Visualization for a Dataset

Aim:

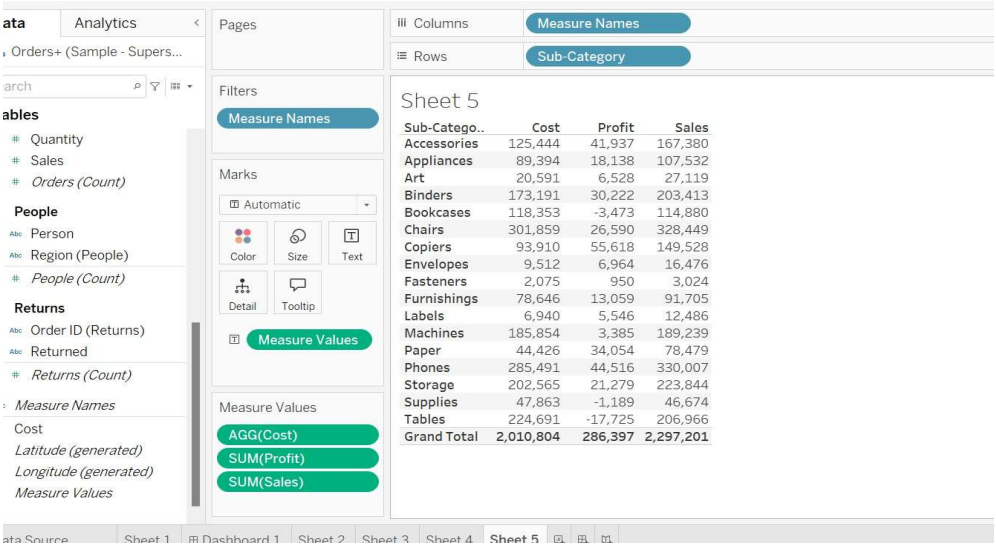
To apply table calculations in Tableau to derive new insights and enhance visual analytics from a dataset.

Output:

Percentage Scores:



Calculating sum using formula:



Result:

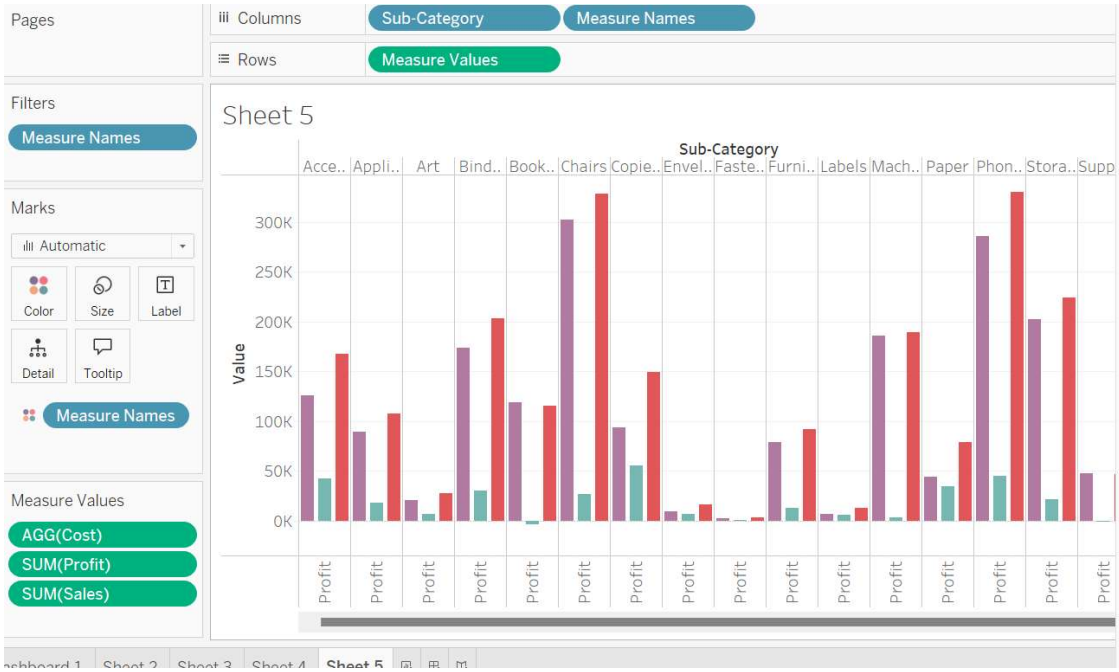
Visualizations incorporating table calculations were successfully created, enabling advanced analysis such as running totals, percent differences, and moving averages.

Experiment 6. Examine More Advanced Chart Types Using Multiple Source Tables

Aim:

To explore and implement advanced chart types (e.g., bullet charts, dual-axis charts) in Tableau using data from multiple source tables.

Output:



Result:

Advanced visualizations were created using data blending and joins, effectively illustrating complex relationships and comparisons across datasets.