

Data Visualization



Learning Objectives

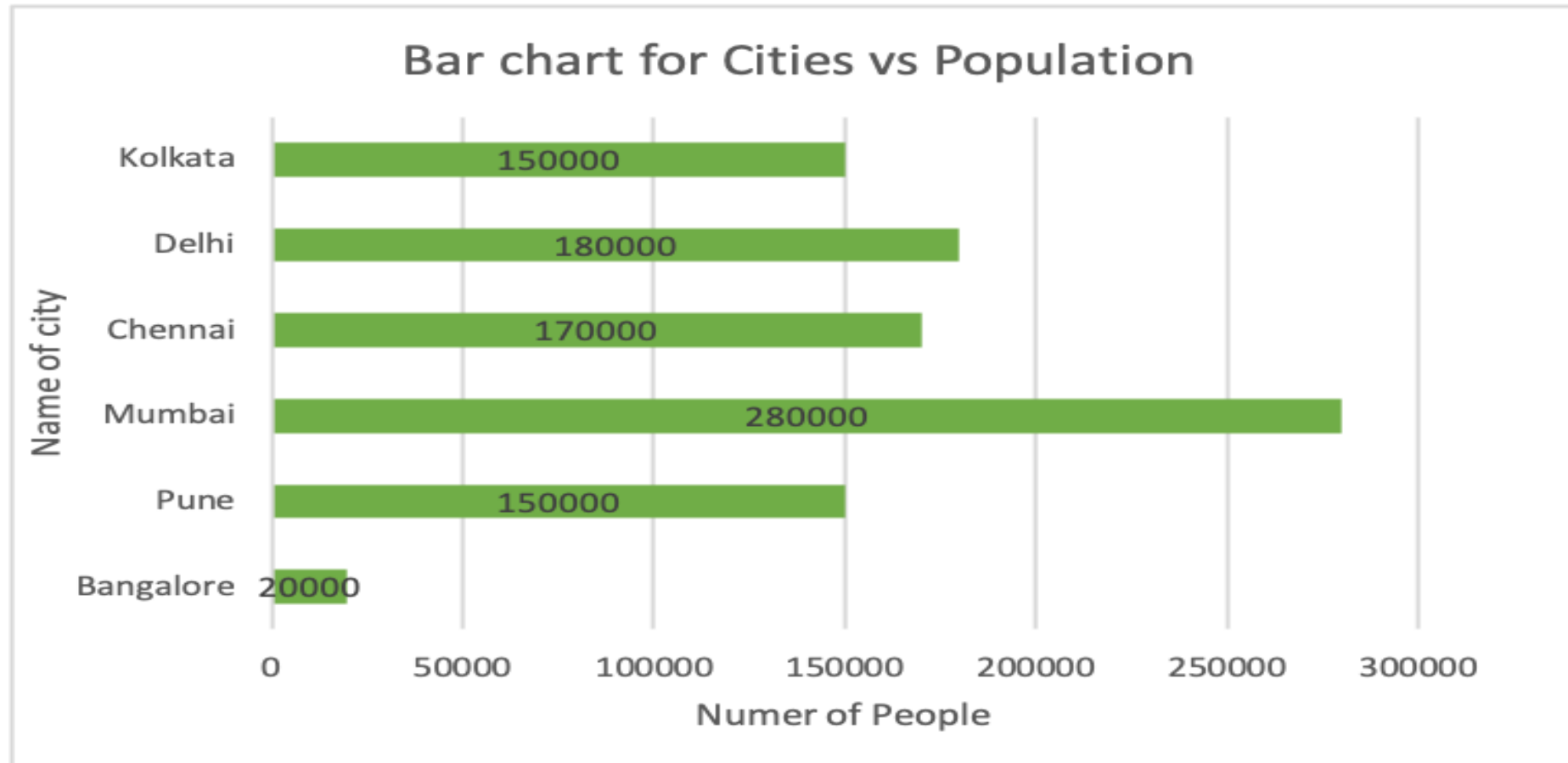
- Bar Plot
- Pie Chart
- Line Chart
- Combination Chart
- Scatter Plot
- Pivot Charts
- Radar Chart

Bar Plot in Excel

It is used when we have one categorical data and one numerical data.

- Generally, frequency is used as numerical data.
- For Adding labels hit “Add Chart Element ” button in the top left corner.
- For Changing colors of the bar hit “Change colors.”
- Different types of charts in Bar chart can be selected from the options menu.
- Side by side column chart are also useful for comparative analysis.

Bar Plot in Excel

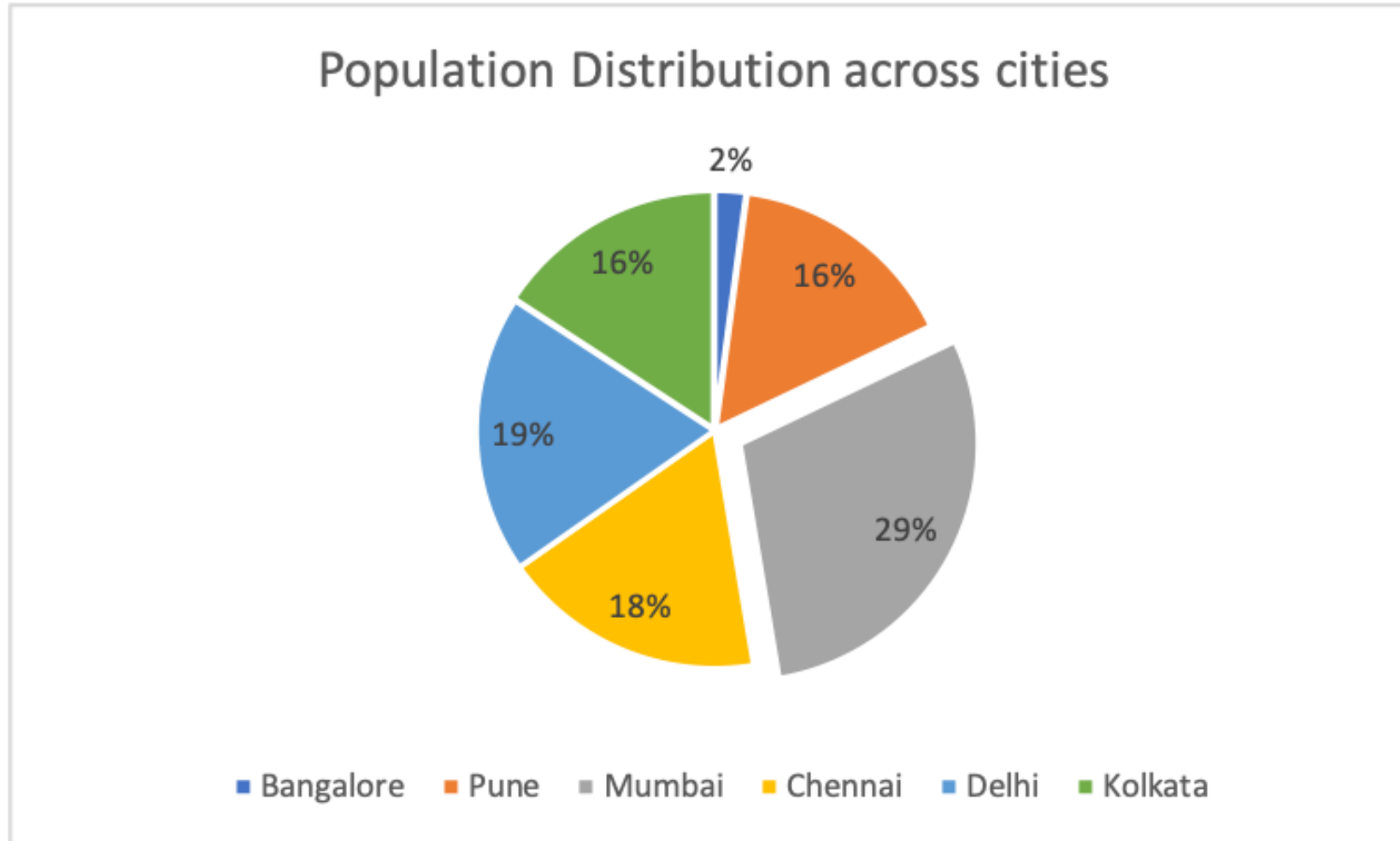


Pie Chart in Excel

It is used when we have one categorical data and one numerical data.

- Generally, frequency is used as a categorical data.
- Pie Charts are convenient to get idea of overall distribution out of 100%
- For Adding labels hit “Add Chart Element ” button in the top left corner.
- For Changing colors of the particular segment hit the section twice and then edit.
- Different types of charts in pie chart can be selected from the options menu.

Pie Chart in Excel

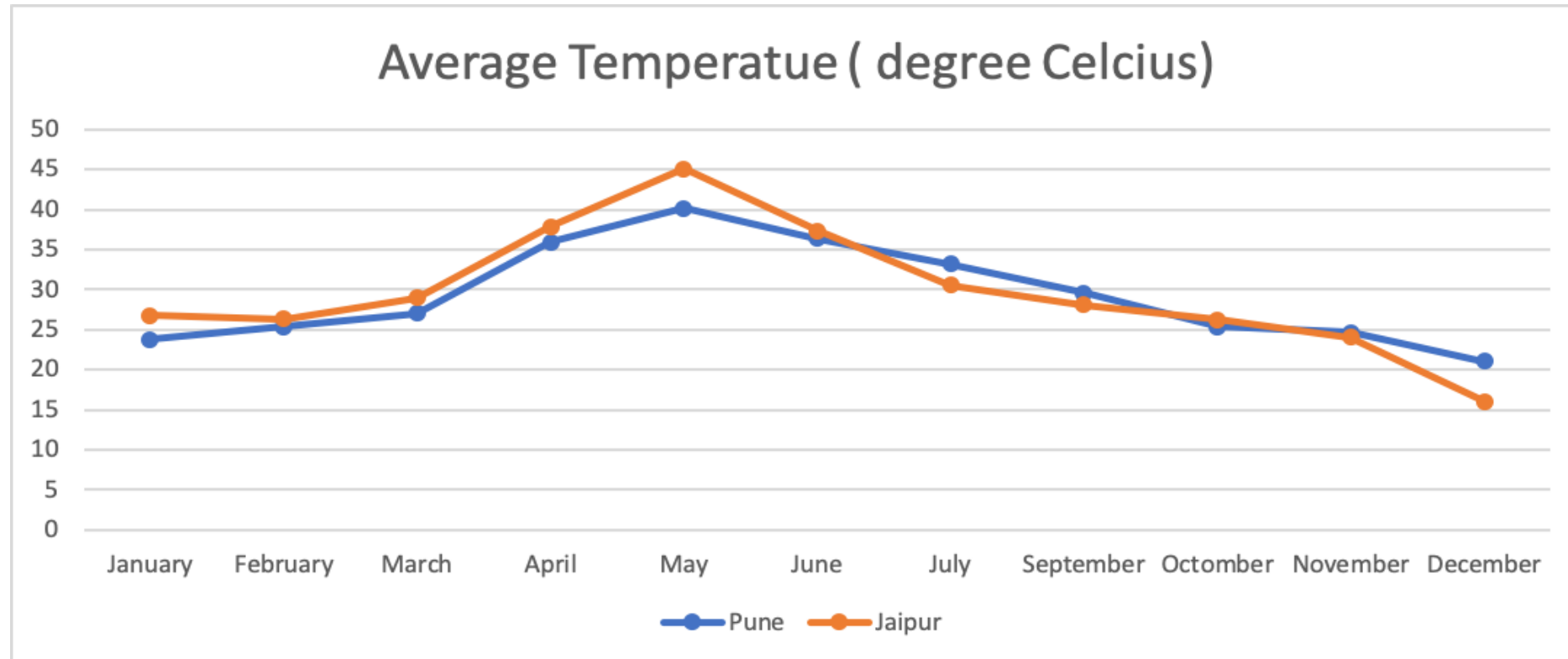


Line Chart in Excel

Line charts are used to display if you have text labels, dates or a few numeric labels on the horizontal axis.

- Generally, Date is used as a categorical data.
- For Adding labels hit “Add Chart Element ” button in the top left corner.
- For Changing colors of the Line hit “Change colors.”
- Different types of charts in Line chart can be select from the options menu.
- Multiple line chart are also useful for comparative analysis.

Line Chart in Excel

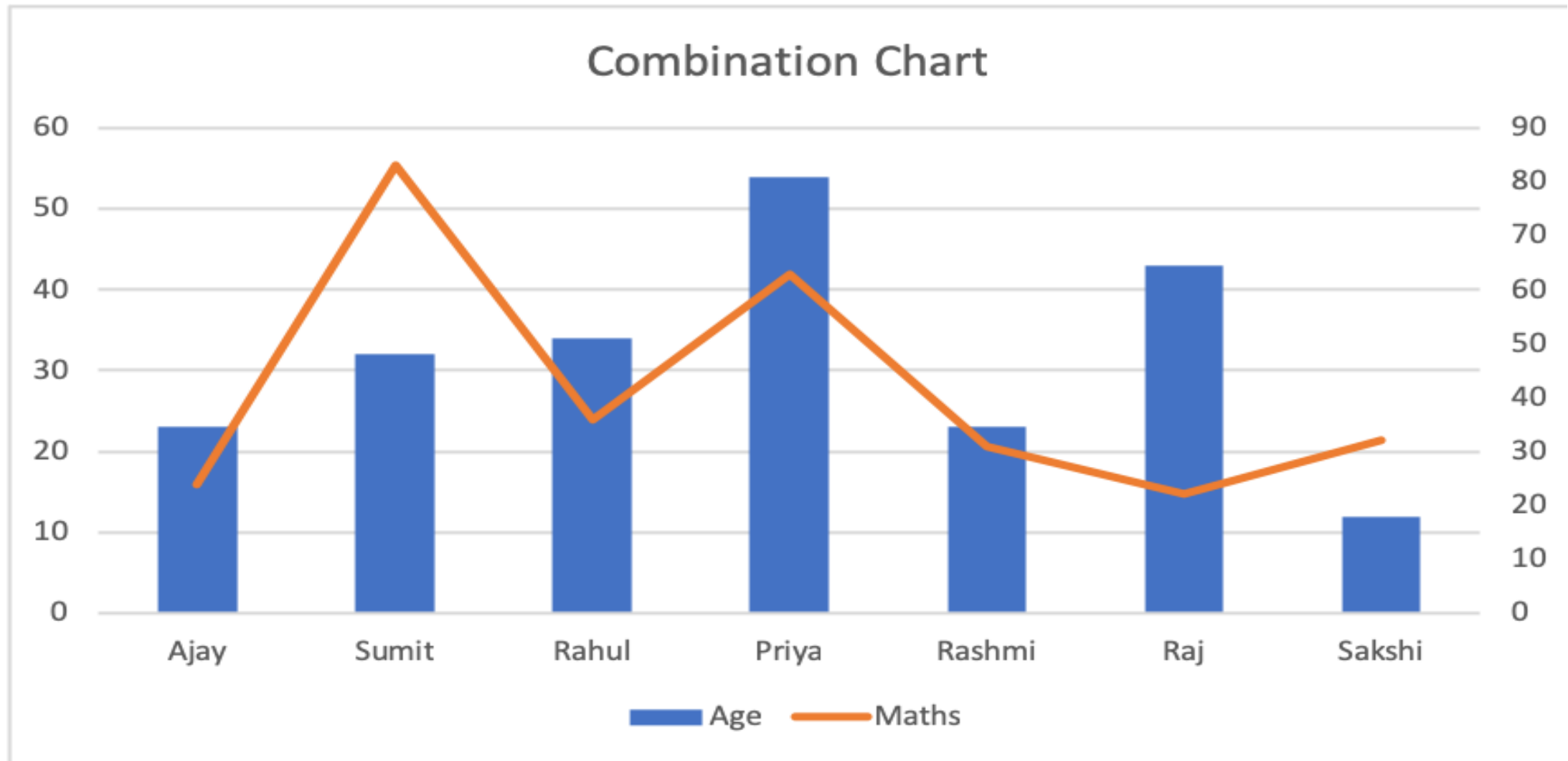


Combination Chart in Excel

A combination chart is a chart that combines two or more chart types in a single chart.

- Here we have created a combination chart for Bar graph and line graph.
- For Adding labels hit “Add Chart Element ” button in the top left corner.
- For Changing colors of the Line hit “Change colors.”

Combination Chart in Excel



Scatter Plot in Excel

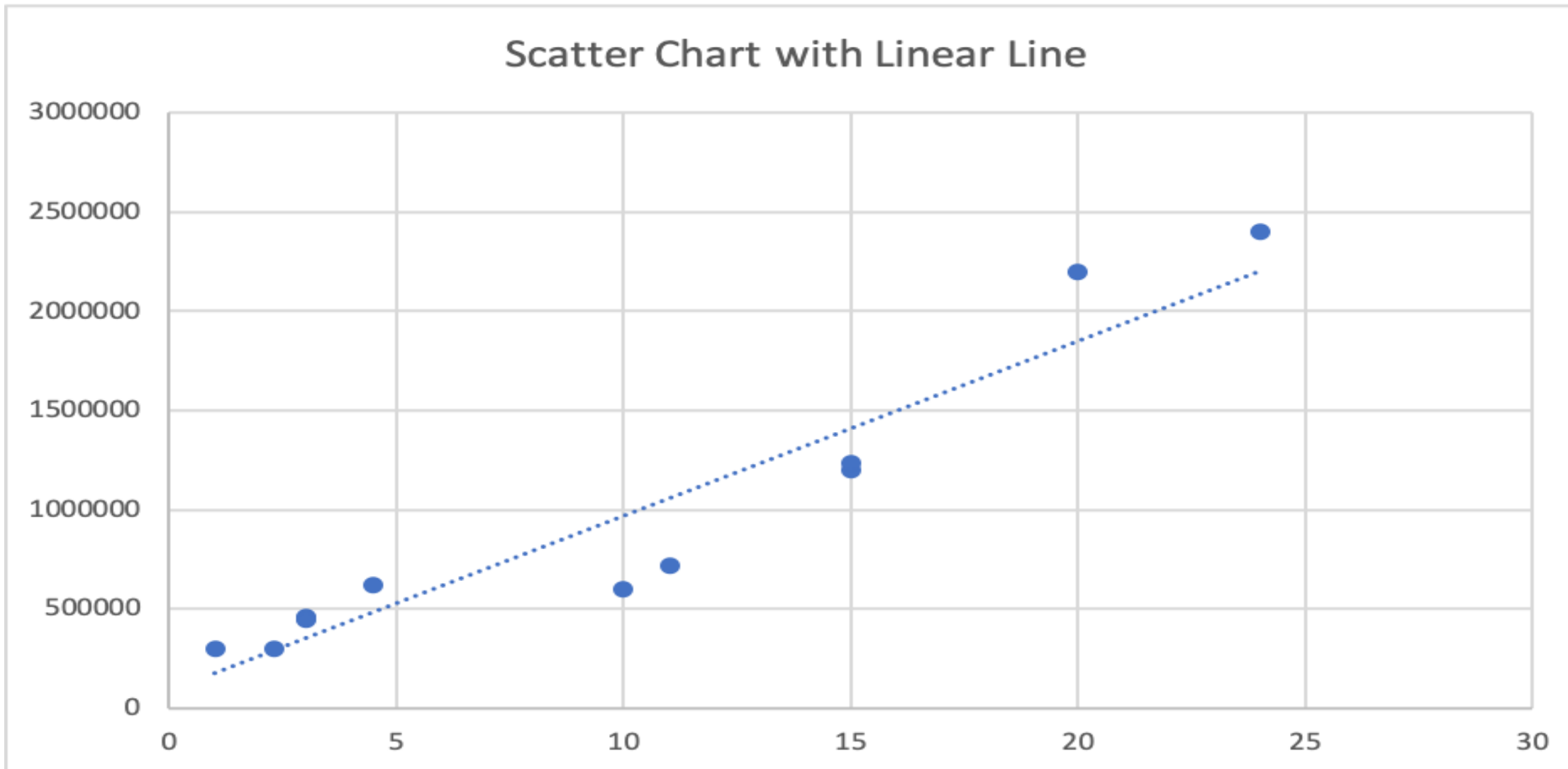
It is often used to show the relationship between two numerical parameters.

- Linear line can also be drawn in scatter chart from “Add Chart Element” menu.
- For Adding labels hit “Add Chart Element ” button in the top left corner.
- For Changing colors of the Line hit “Change colors.”
- Different types of charts in scatter chart can be select from the options menu.

Line Chart in Excel



Line Chart in Excel



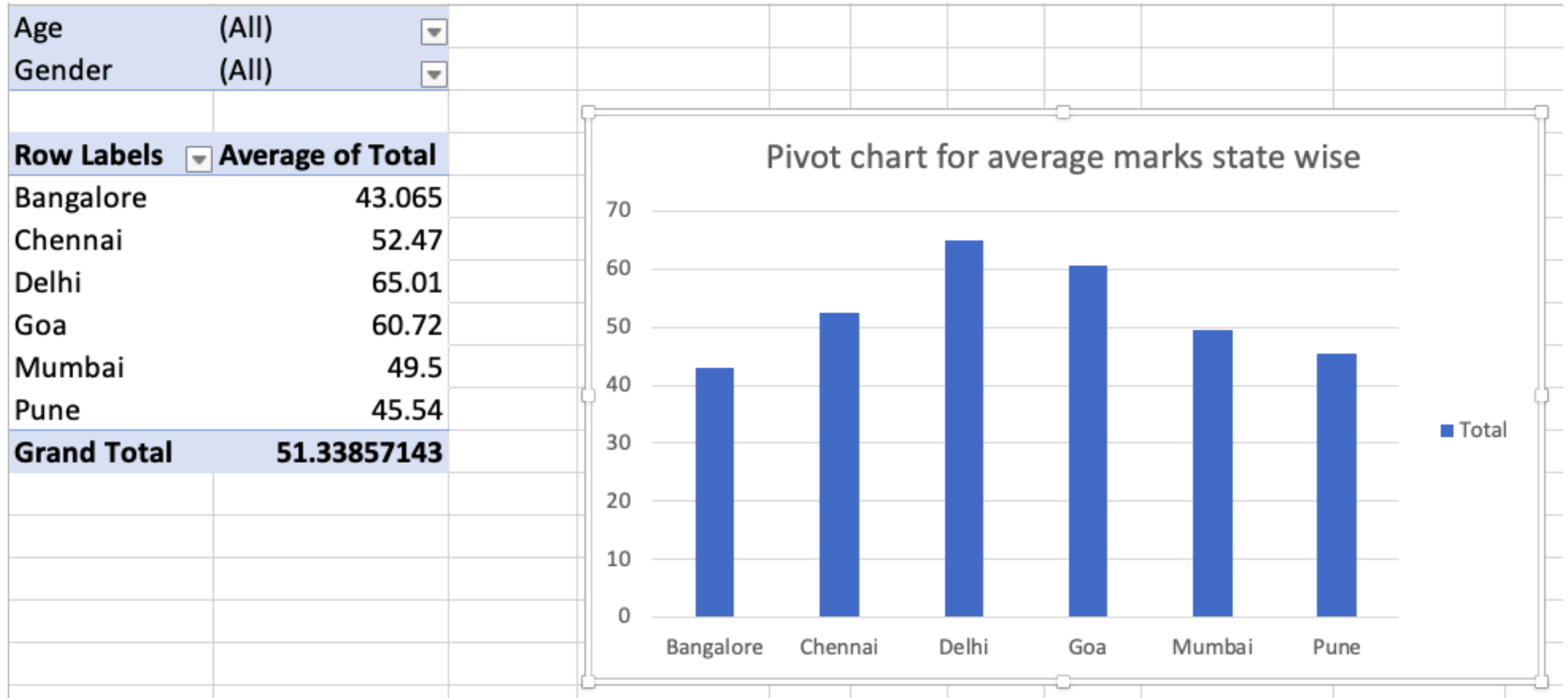
Pivot Charts in Excel

Pivot Charts are used to analyse the data within a Pivot table.

Steps to get a pivot chart are :

- Click any cell of the pivot table
- Go to PivotTable Analysis
- Hit Pivot Chart button
- Hit graph elements to make changes in the graph.

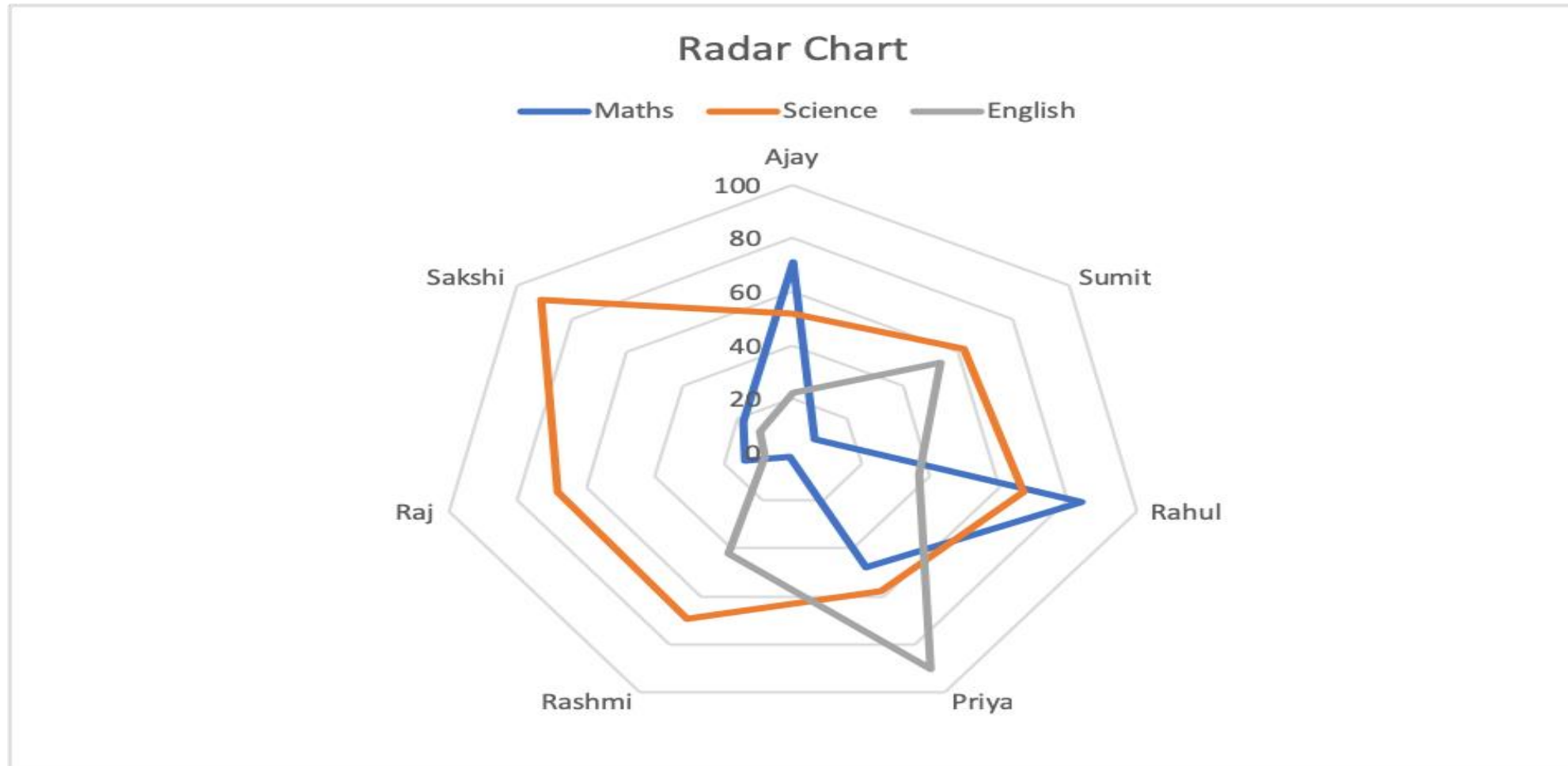
Pivot Charts in Excel



Radar Chart in Excel

Radar Chart is one of the chart used to have a clear picture when you want to analyze multiple numerical parameters with respect to categorical features.

Radar Chart in Excel



The End