**Day 6: Basic Visualizations in Power BI**

1. **Bar Chart**

* Shows horizontal bars to compare values across categories.
* Example: Comparing sales of different products.

1. **Column Chart**

* Shows vertical bars for data.
* Useful for showing values over time or categories.
* Example: Sales for each month.

1. **Line Chart**

* Displays trends using connected data points with lines.
* Best for showing progress over time.
* Example: Website visitors across weeks.

1. **Pie Chart**

* Shows data as slices of a circle (like a pizza).
* Good for showing parts of a whole.
* Example: Market share of different brands.
* Use only when there are a few categories.

1. **Card**

* Displays one big number or value.
* Example: Total Sales or Total Orders.

1. **Multi-Row Card**

* Displays multiple values like cards side by side.
* Example: Showing Total Sales, Profit, and Orders together.

1. **Table**

* Shows data in rows and columns.
* Similar to Excel.
* Good for showing detailed data like customer lists or transactions.

1. **Matrix**

* Like a table but with the ability to group by rows and columns.
* Works like an Excel pivot table.
* Useful for financial reports or comparisons.

**Formatting and Customizing Visuals**

1. **Titles and Labels**

* You can change the chart title and add labels to show numbers.
* You can also change the size, color, and position of the title and labels.

1. **Data Colors**

* You can change the colors of bars, lines, and pie slices.
* Helps make the visuals easier to understand.

1. **Tooltips**

* When you hover over a visual, extra information appears.
* Tooltips help you see more details without crowding the chart.

1. **Sorting and Filtering**

* You can sort data in ascending or descending order.
* Filters help you see specific data, like only one region or one product category.

1. **Legends and Axes**

* Legends tell you what each color or shape means.
* You can move the legend or hide it.
* You can also change how the X and Y axes look (numbers, text, spacing).

1. **Visual Interactions**

* Charts in Power BI can interact with each other.
* For example, clicking on one bar can filter the rest of the report.
* You can control how visuals affect each other using the "Edit interactions" feature.

**Best Practices**

* Choose the right chart for the right purpose.
* Do not use too many visuals on one page.
* Use simple colors and clear labels.
* Keep your dashboard clean and easy to read.