**Chapter: Building Visuals in Power BI**

**🔹 1. Where to Start**

* Click on **“Build Visuals”** in the **Visualizations pane** to begin.
* Drag fields from the **Fields pane** onto the canvas or directly into the visualization settings (Axis, Values, Legend, etc.).

**🔹 2. Common Visual Types**

| **Visual Type** | **Use Case** |
| --- | --- |
| **Clustered Column Chart** | Compare values by category (vertical bars) |
| **Clustered Bar Chart** | Compare values by category (horizontal bars) |
| **Pie/Donut Chart** | Show proportions (e.g., share of food types) |
| **Card** | Show single metrics (e.g., total orders) |
| **Line Chart** | Trends over time |

**🔹 3. Visualization Options Explained**

| **Option** | **Description** |
| --- | --- |
| **X-Axis** | Categorical fields (e.g., Food Type, Restaurant) |
| **Y-Axis** | Numeric field (e.g., Quantity, Count, Revenue) |
| **Legend** | Adds a visual key to separate values by category (e.g., Order Status) |
| **Small Multiples** | Splits the chart into sub-charts based on a category (like mini dashboards) |
| **Tooltip** | Shows extra data when hovering over a data point |
| **Data Labels** | Display numeric values directly on the bars/points |

**🔹 4. What We Did in This Chapter**

**✅ A. Calculated Total Quantity of Each Food Type**

* Used a **clustered column chart**.
* Dragged Food Type to **X-axis**, Quantity to **Y-axis**.
* Enabled **data labels** to show the exact quantities.

**✅ B. Found Count of Each Food Type**

* Used a **different chart type** (e.g., **clustered bar chart** or **pie chart**).
* Used Food Type on **X-axis**, and used Count on **Y-axis**.
* Renamed the value to **“Count of the Food Ordered”** in the **Values pane**.

**✅ C. Showed Delivered vs. Cancelled Orders**

* Added Order Status (e.g., **Delivered, Cancelled**) to the **Legend**.
* Turned on **Data Labels** for each segment of the bars for clear comparison.
* Tooltip helped show transaction-level details on hover.

**✅ Best Practices:**

* Rename your visuals and measures for **clarity** (e.g., *“Total Quantity by Food Type”*).
* Use **different chart types** to explore different perspectives.
* Use **Legends** and **Small Multiples** for comparative visuals.
* Always turn on **Tooltips** and **Data Labels** for better UX.