### **Setting Up the Data**

1. **Load Your Dataset**:

Import your user behavior dataset into Power BI. This could be a CSV, Excel file, or a direct connection to a database.

1. **Transform Data**:

Use Power Query Editor to clean and transform your data as needed. Ensure all necessary columns like User ID, Device Model, App Usage Time, Screen On Time, Battery Drain, Data Usage, Age, Gender, etc., are included and formatted correctly. Clean the data and remove duplicated columns.

Add conditional columns : 2 for Normal User, 3 for low addicted User, 4 for addicted User, 5 for high Addicted User .

Add Custom Columns: if [Age]<=18

then "Child"

else if [Age]>18 and [Age]<=35

then "Young Adult"

else if [Age]>35 and [Age]<=55

then "Old Adult"

else "Senior Citizen"

1. **Creating Measures and Calculations**

Average App Usage per Hour: Create a new column dividing App Usage Time by Screen on Time.

Data Usage per App: Divide Data Usage (MB/day) by Number of Apps Installed.

1. **Visualization:**

* **Count of User ID by Operating System**:
  + Create a pie chart. Use Operating System as the legend and User ID as the values.
* **Count of User ID by Gender**:
  + Create a pie chart. Use Gender as the legend and User ID as the values.
* **Sum of Data Usage (MB/day) by Device Model**:
  + Create a pie chart. Use Device Model as the legend and TotalDataUsage as the values.
* **User Behavior by Age Group**:
  + Create a table. Use Age Group and User Behavior Class as the rows and User ID as the values to count.
* **Sum of Data Usage (MB/day) and Sum of Battery Drain (mAh/day) by Device Model**:
  + Create a clustered bar chart. Use Device Model as the axis, TotalDataUsage and TotalBatteryDrain as the values.
* **Sum of Data Usage per app by Device Model and Gender**:
  + Create a stacked bar chart. Use Device Model as the axis, Gender as the legend, and TotalDataUsage as the values.
* **Sum of App Usage Time (min/day) and Sum of Data Usage (MB/day) by App Usage Time (min/day)**:
  + Create a scatter plot. Use App Usage Time as the X-axis and TotalDataUsage as the Y-axis.
* **Sum of Battery Drain (mAh/day) by Age Group**:
  + Create a line chart. Use Age Group as the axis and TotalBatteryDrain as the values.

### **Combining Visualizations**

1. **Dashboard Layout**:

Drag and drop your visualizations onto the Power BI report canvas to create a cohesive and informative dashboard. Arrange the visuals in a way that tells a clear story.

1. **Add Titles and Labels**:

Make sure each visualization has a clear title and labels for axes, legends, and data points.

1. **Interactivity**:

Use slicers and filters to allow users to interact with the dashboard. For example, add slicers for Age Group and Device Model.