**1. Superstore Sales Dashboard (Excel)**

**Goal:** Analyze Superstore’s sales data to track performance and trends over multiple years.

**Steps Taken:**

1. **Data Cleaning:**
   * Removed blank rows and unnecessary columns.
   * Standardized date formatting.
   * Checked for and corrected inconsistent values.
2. **Data Preparation:**
   * Created a Year and Month column for grouping.
3. **Analysis:**
   * Used **Pivot Tables** to calculate Total Revenue and Units Sold.
   * Grouped data by **Month & Year** to observe sales trends.
4. **Visualization:**
   * Created charts for Monthly Trends
   * Used Slicers to filter by Region or Category.
5. **Output:**
   * An interactive **Excel dashboard** showing KPIs, charts, and filters for easy insights.

**2. Walmart Sales Analysis (Excel)**

**Goal:** Identify sales trends and performance patterns for Walmart stores.

**Steps Taken:**

1. **Data Cleaning:**
   * Removed duplicates and fixed inconsistent text entries.
   * Standardized date columns for accurate grouping.
2. **Data Preparation:**
   * Created Year and Month columns from the Date field.
   * Ensured numeric columns (Sales, Revenue) were in the correct format.
3. **Analysis:**
   * Built **Pivot Tables** for Total Sales, Units Sold.
   * Grouped data by Month and Year to detect seasonality.
4. **Visualization:**
   * Created bar charts for Monthly Sales trends.
   * Highlighted top-performing months and product categories.
5. **Output:**
   * An Excel report summarizing Walmart’s sales performance and seasonal peaks.

**3. Titanic Survival Analysis (Python)**

**Goal:** Explore factors influencing passenger survival on the Titanic.

**Steps Taken:**

1. **Data Loading:**
   * Imported dataset using Pandas.
2. **Data Cleaning:**
   * Checked for missing values in Age, Embarked, and Cabin.
   * Filled missing Age values with the median.
   * Removed irrelevant columns like Passenger ID.
3. **Exploration:**
   * Analyzed survival rates by Gender, Passenger Class, and Age group.
   * Created new features like Age Group for better comparison.
4. **Visualization:**
   * Used **Seaborn** to create bar plots and count plots.
   * Compared survival rates visually between groups.
5. **Output:**
   * A set of charts showing that **female passengers** and those in **1st class** had the highest survival rates.