#### Task 02: Retail Store Sales Dashboard – Full Project Documentation

# **O** Project Objective

To analyze retail sales performance using Excel by building an insightful, multi-page dashboard covering key business metrics like sales trends, regional analysis, customer segments, product categories, and the impact of discounts, along with strategic recommendations.

# ✓ Steps Followed to Complete Task 02

#### 1. Dataset Download

- Collected the raw "Retail Store Sales" dataset provided by the internship/training source.
- Saved the file in Excel format for further processing.

# 2. Data Cleaning Using Excel

- Opened the dataset in Excel.
- Performed the following cleaning steps:
  - o Removed all blank rows and extra columns not needed for analysis.
  - Verified and corrected data types (dates, numbers, text).
  - o Cleaned and formatted **Order Date**, **Ship Date** to standard date format.
  - Ensured consistency in categorical fields like Region, Segment, Category, and Sub-Category.
  - o Removed duplicates using "Remove Duplicates" feature.
- Saved the cleaned version separately as: Cleaned\_Retail\_Store\_Dataset.xlsx.

## 3. Data Analysis via Pivot Tables

- Created pivot tables for each of the required analysis aspects:
  - Sales by Month
  - Profit by Region
  - Customer Segment Sales
  - Category/Sub-category Sales
  - Discount vs Sales vs Profit by Month
- Used **filters** and **slicers** to explore data for different combinations.

#### 4. Data Visualization and Dashboard Creation

Created visual dashboards in Excel by combining pivot charts with text summaries. Pages included:

#### Page 1: Overview

- KPIs: Total Sales, Total Profit, Total Orders.
- Line chart showing Monthly Sales & Profit Trend.
- Title: "Sales Performance Overview"

## Page 2: Region Analysis

- Column chart for Sales and Profit by Region.
- Map visualization (if applicable).
- Title: "Regional Performance Breakdown"

#### **Page 3: Customer Behavior**

- Segment-wise sales & profit analysis.
- Top 10 Customers by Total Sales (Bar chart).

• Title: "Customer Segment & Behavior Insights"

#### **Page 4: Product Impact**

- Category and Sub-Category Sales Distribution.
- Best Performing Product Types.
- Title: "Product Category Impact Analysis"

## Page 5: Discount vs Profit

- Combo chart: Line (Discount), Bars (Sales) across months.
- Color-coded by Category: Technology, Office Supplies, Furniture.
- Title: "Discount Impact on Sales & Profit"

## Page 6: Insights & Recommendations

- Key takeaways from visual analysis:
  - o October-November had peak sales with high discounts.
  - Technology responds well to discounts.
  - April discounts didn't lead to higher sales → diminishing returns.
- Business Recommendations:
  - Focus discounts on Technology in Q2 and Q4.
  - Reassess Office Supplies strategy.
  - Use A/B testing for optimal discount thresholds.
- Title: "Insights & Actions"

## **5. Dashboard Design Best Practices**

- Used minimal and meaningful color palette for category clarity.
- Proper titles, axis labels, legends used on every chart.

- Avoided clutter and merged similar metrics for comparison.
- Business insights were emphasized, not just visuals.

## 6. Final Outputs & Submission Material

- Cleaned Dataset Excel File
- 6 Dashboard Pages exported as PNG
- Combined all into a single polished PDF Report
- (Optional) Uploaded the entire project to GitHub for portfolio purposes.

#### 7. Screen Shots













