# **Grocery Store Sales Dashboard – FreshMart Analytics**

## **Objective:**

Develop a data-driven dashboard for **FreshMart Analytics** to analyze sales trends, track key performance indicators (KPIs), and uncover insights to enhance business performance for a grocery store.

## Requirements:

#### 1. Advanced Metrics & Calculations

- Total Revenue & Profit: Compute total revenue and add a column for profit (Revenue -Cost).
- Average Basket Size: Calculate the average number of items per transaction.
- Sales Growth Rate: Determine month-over-month (MoM) and year-over-year (YoY) sales growth.
- Sales by Product Category: Analyze sales performance by different grocery categories (e.g., Dairy, Bakery, Fruits & Vegetables).
- **Peak Sales Periods:** Categorize sales data into time slots (Morning, Afternoon, Evening, Night).
- Customer Purchase Frequency: Identify repeat customers and their purchasing behavior.

#### 2. Dashboard Elements

#### **KPIs Summary Section:**

- Total Sales Revenue
- Total Items Sold
- Total Profit
- Average Basket Size
- Sales Growth Rate (MoM & YoY)
- Return Rate (if applicable)

### **Top Products, Regions, and Customers:**

- Top 2 product categories by total sales
- Top 2 best-selling products
- Top 2 regions by sales performance
- Top 2 most frequent customers

### Time-Based Sales Analysis:

- Sales trends by day of the week (to determine peak shopping days).
- Sales distribution by time of day (Morning, Afternoon, Evening, Night).

## **Employee Performance:**

• Ranked sales performance by cashiers or store staff (if applicable).

### 3. Interactive Filtering & Slicers

- Product Category
- Region (if multiple locations exist)
- Customer Type (New vs. Returning Customers)
- Date Range (Year/Month/Day)
- Time of Day (Morning, Afternoon, Evening, Night)

The dashboard should dynamically update based on slicer selections.

### 4. Data Visualization

- Sales Trends: Line chart showing monthly and yearly sales trends.
- Hourly Sales Heatmap: A heatmap or bar chart displaying sales distribution by hour.
- Category Performance: Pie chart showing the contribution of each product category to total sales.
- Sales vs. Returns: A bar chart comparing total sales and returned items.
- **Profit Analysis:** Line chart tracking profit margin trends over time.

## 5. Dashboard Insights & Analysis

- Actionable Insights: Write 3 observations based on the data, such as:
  - Identifying peak shopping hours.
  - Most popular grocery categories.
  - Seasonal sales trends.