

MICROSOFT EXCEL PROJECT (2)

# Problem Statement

The coffee shop was facing challenges in understanding its sales performance and customer preferences:-

- ☐ The management lacked clear insights into which products were top sellers, which time slots drove the most sales .
- Sales data was available but **scattered and unorganized**, making it difficult to draw meaningful conclusions.
- ☐ Without analysis, decision-making on **inventory**, **promotions**, **and staffing** was largely guesswork.

# Approach

#### Data Collection & Cleaning

- Gathered raw sales dataset (order date, product, category, quantity, revenue).
- Removed duplicates, handled missing values, and standardized product categories.

#### Data Transformation

- Created calculated fields (Revenue = Quantity × Unit Price).
- Applied date formatting to extract insights by Day, Month, Year.
- Used conditional formatting to highlight low-performing products.

## Exploratory Data Analysis (EDA)

- Pivot Tables for category-wise, product-wise, and time-based sales.
- · Charts & graphs (line charts, bar charts, pie charts) for visualization.

#### Dashboard Creation

- · Interactive dashboard with filters (Product Category, Time Period).
- KPIs: Total Revenue, Average Order Value, Top 5 Products, Peak Hours.

# Key Insights

### **Top Performing Products**

- Barista Expresso and Brewed Chai Tea contributed the highest sales.
- Peak Month is June recorded as highest sales.

#### **Customer Preferences**

- ■Drinks (coffee & tea) generated the majority of revenue, compared to bakery & branded products.
- Morning Sunrise Chai, Peppermint, and Earl Grey were consistently among the top choices.
- Snacks & Bakery: Supported overall revenue but contributed less compared to beverages.
- ■Customers preferred mid-sized drinks (Large, Regular), showing value-for-money buying behavior.

#### **Time-based Sales Pattern**

- Highest sales occurred between 8 AM 11 AM, showing strong morning demand.
- Sales dropped significantly in late evenings (after 8 PM).
- ■Weekends outperformed weekdays by ~15–20%.

#### **Operational Observations**

- ■Focus promotions during slower mid- week days.
- ■Schedule extra staff in morning shifts and weekends to manage peak demand.

# Business Impact

### **Product Strategy**

- •Focus marketing efforts on top 5 selling beverages.
- •Phase out or rebrand underperforming items.

# **Operational Efficiency**

- •Optimize staff scheduling during peak hours.
- •Align inventory with seasonal demand.

# Revenue Growth

- •Targeted promotions on slow days increased sales by ~12%.
- •Highlighting specialty drinks boosted average order value.



