# DA Assignment - 2

# **Objective:**

Students will design an interactive **Dashboard** using the provided dataset. The goal is to analyze key metrics and provide insights into trends, performance and sales.

**Dataset: Link** 

#### **Attribute information**

Invoice id: Computer-generated sales slip invoice identification number

Branch: Branch of supercenter (3 branches are available identified by A, B and C).

City: Location of supercenters

Customer type: Type of customers, recorded by Members for customers using

member

cards and Normal for those without member cards.

Gender: Gender type of customer

Product line: General item categorization groups - Electronic accessories, Fashion

accessories, Food and beverages, Health and beauty, Home and lifestyle, Sports and

travel

Unit price: The price of each product in \$

Quantity: Number of products purchased by the customer

Tax: 5% tax fee for customers buying

Total: Total price including tax

Date: Date of purchase (Record available from January 2019 to March 2019)

Time: Purchase time (10 am to 9 pm)

Payment: Payment used by the customer for the purchase (3 methods are available –

Cash, Credit card and Ewallet)

COGS: Cost of goods sold

Gross margin percentage: Gross margin percentage

Gross income: Gross income

Rating: Customer stratification rating on their experience (scale of 1 to 10)

#### Task:

- 1. Import the Dataset: Load the provided dataset into Power BI.
- 2. Data Cleaning: Ensure data consistency and Create new Columns if required
- 3. Dashboard Components (Must include):
- o Cards, Slicers, Visualizations
- 4. **Interactivity**: Ensure the dashboard is interactive

### **Screenshot of Dashboard**



# key findings and insights

#### **Overall Performance Metrics:**

• **Sum of Quantity Sold**: 5,510 units.

• Average Total Sales: 322.97.

• Total Rating Score: 6.97K.

### **Branch-wise Gross Income:**

- **Branch** C has the highest gross income (5.27K or 34.24% of total).
- **Branches A and B** have equal gross income (5.06K or 32.88% each).
- This suggests a fairly balanced revenue distribution, with **Branch C slightly** outperforming the others.

# **Product Line Gross Margin Percentage:**

- The total gross margin percentage is **4.8K**.
- "Health and Beauty" has the **highest margin percentage** (around 4.8K).
- Other product lines, including Fashion Accessories, Food and Beverages, Electronic Accessories, and Sports & Travel, have lower but similar contributions (0.8K each).
- "Home and Lifestyle" has the lowest margin percentage (0.7K).

# **User Controls:**

- Filters for **Branch**, **City**, **and Date** allow for refined data analysis.
- Users can analyze specific periods or locations to identify trends.