# DA Assignment - 3

## **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

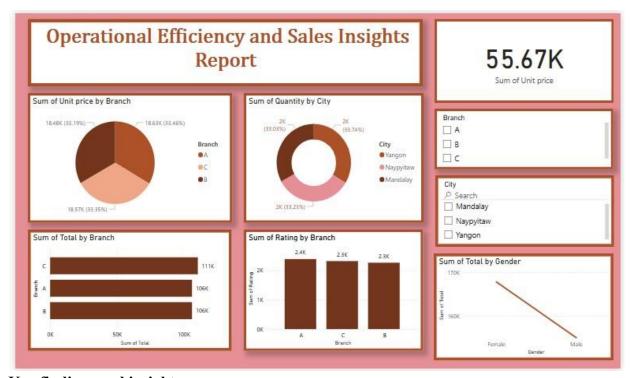
Gross margin percentage: Gross margin percentage

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. **Interactivity**: Ensure the Report is interactive

#### Screenshot of Dashboard



Key findings and insights

- 1. Overall Performance Metrics:
  - The total sum of unit price is 55.67K.
  - Sales appear evenly distributed across branches and cities, with no significant outliers.

### 2. Branch Performance:

• Unit Price Distribution:

o Branch A: 33.19%

o Branch B: 33.46%

Branch C: 33.35%

### • Total Sales by Branch:

 Branch C has the highest total sales (111K), followed closely by Branch A (106K) and Branch B (106K).

### • Customer Ratings:

- o Ratings are relatively uniform, with Branch A (2.4K), Branch B (2.3K), and Branch C (2.3K).
- This indicates consistent customer satisfaction across branches.

## 3. City-Wise Sales Distribution:

• Sales quantities are nearly equal across the three cities:

Yangon: 33.03%

Naypyitaw: 33.74%

o Mandalay: 33.23%

• This suggests a balanced demand across locations, with no significant sales gaps between cities.

### 4. Gender-Based Sales Trends:

• There is a significant gap between male and female sales, with male customers contributing a much higher total sales amount.

•	This suggests an opportunity to improve sales among female customers through targeted marketing campaigns.