

## DA Assignment - 1

### 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:

Upload the dataset , delete the unnecessary columns if required

Create below Visualization:

- Pie Chart
- Stacked Bar Chart
- Line Chart
- Simple Table Chart

## Screenshot of Dashboard



## key findings and insights

### City-wise Gross Income:

- Naypyitaw leads with the highest gross income (5.3K), followed by Yangon (5.1K) and Mandalay (5.1K).
- The variation in gross income among cities is relatively small.

### Product Line Performance:

- "Food and Beverages" contributes the highest total sales (56.1K).
- "Health and Beauty" has the lowest total sales (49.2K).
- Other product lines, such as "Sports and Travel" and "Fashion Accessories," have similar sales figures around 54K.

### **Branch-wise Performance:**

- Branch B (Mandalay) has the highest sales quantity (1,820 units).
- Branch C (Naypyitaw) and Branch A (Yangon) have similar sales figures.
- The total sales across all branches amount to 3,22,966.75.

### **Average Sales by Product Line:**

- The pie chart indicates a nearly balanced contribution across different product categories.
- The highest average sales value is 336.64 (17.35%) for a particular product line.
- Other product lines contribute between 15.73% and 17.12%, suggesting no extreme variation.

### **User Controls:**

- Filters for **Time, Date, and Branch** allow for dynamic data analysis.
- These filters can help in refining the insights based on specific periods or locations.