



Sales -Super market

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# Project introduction

## ❖ Invoice Analysis

- ❖ The Invoice Analysis project! In this endeavor, we will delve into a dataset containing information about various invoices. The dataset encompasses crucial details such as Invoice ID, Branch, City, Customer Type, Gender, Product Line, Unit Price, Quantity, Tax (5%), Total Amount, Payment Method, and Customer Rating.

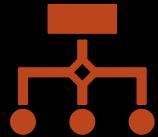
# Objective

- ◆ The primary goal of this project is to extract valuable insights from the provided invoice data. By applying data analysis techniques, we aim to uncover patterns, trends, and meaningful correlations within the dataset. This exploration will not only enhance our understanding of the business dynamics but also contribute to informed decision-making processes.

# GOAL

We will try to answer the following Questions:

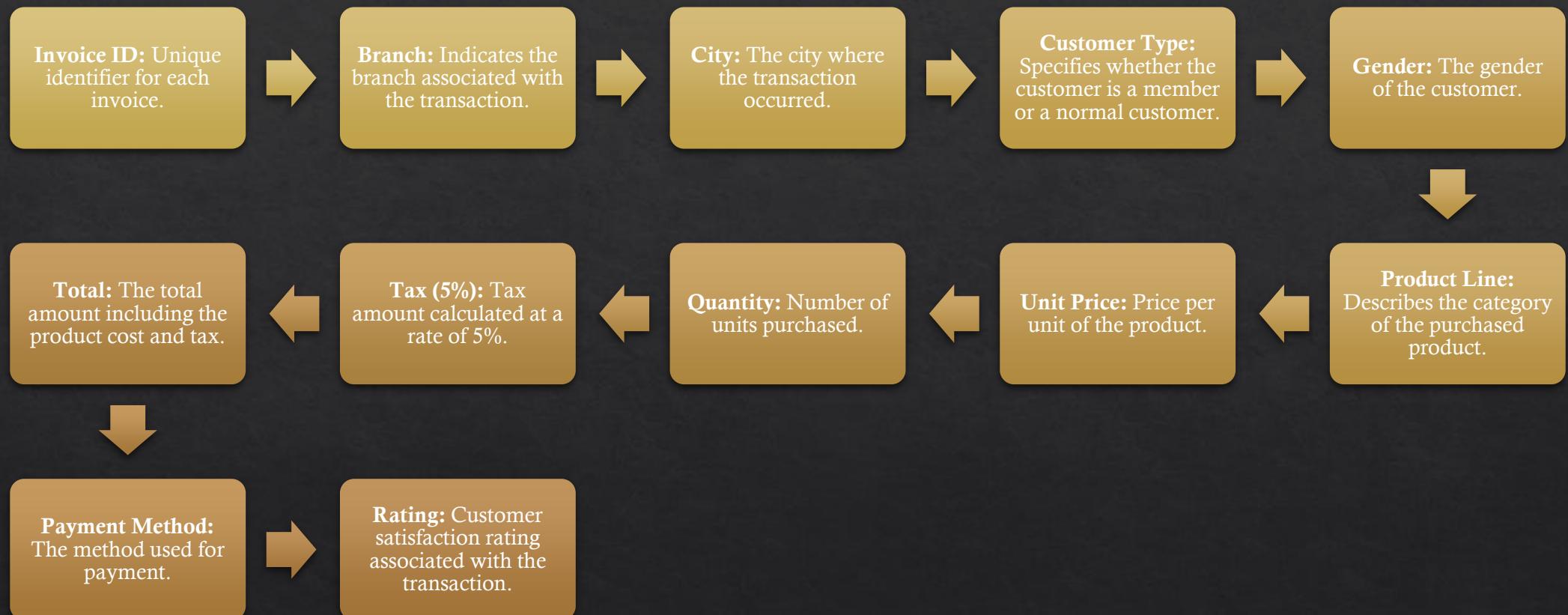
- 1-how many number of(cities and branches and products and payment method ).
- 2-we want to know the sum of total money.
- 3-we want to know the total quantity sold by every product
- 4-how many the product(Health and beauty) sold in branch(A)
- 5-we want to know the most payment method used by customers
- 6-how many males and females in each city
- 7-we want to know the average of rating for every product due to gender
- 8- we want to know the most product that females buy But only (females' members)



# Dataset Details

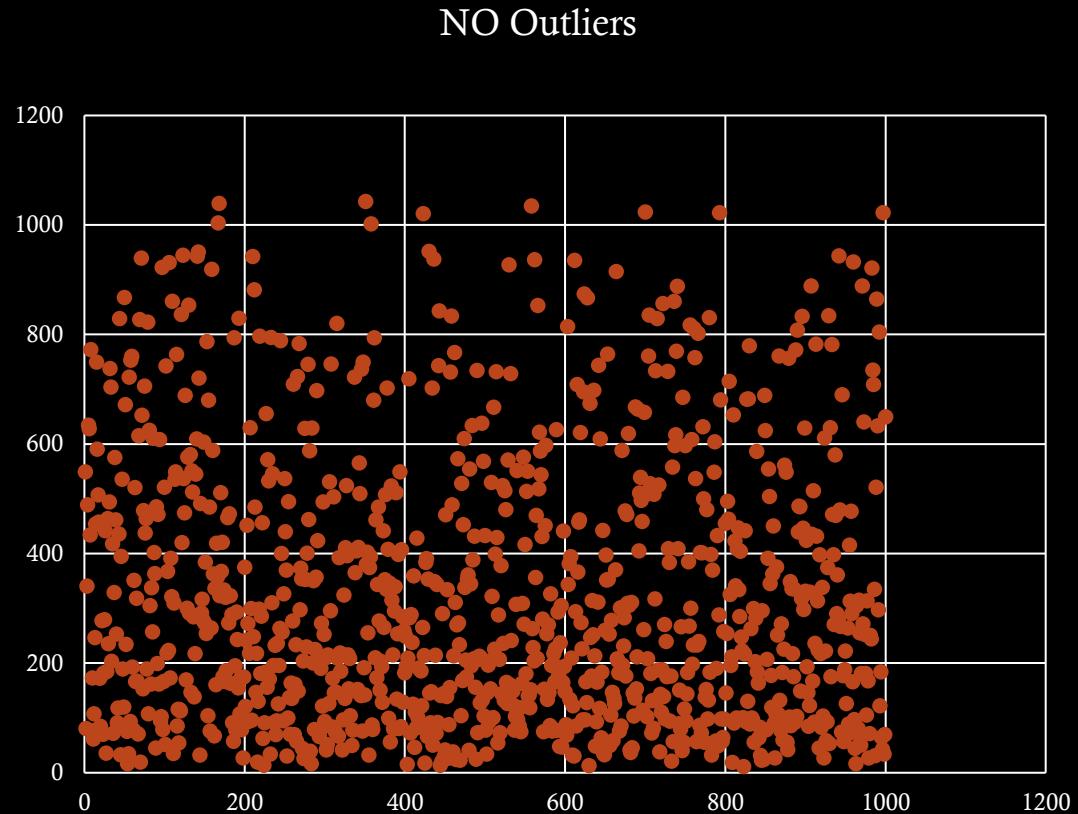
- ❖ Source: Kaggle.
- ❖ Subject: Sales -Super market.
- ❖ Link  
<https://www.kaggle.com/datasets/aungpyaeap/supermarket-sales>
- ❖ Count of rows:1000
- ❖ Count of columns : 12
- ❖ Data of add in Kaggle : November 2022

# Dataset Overview:

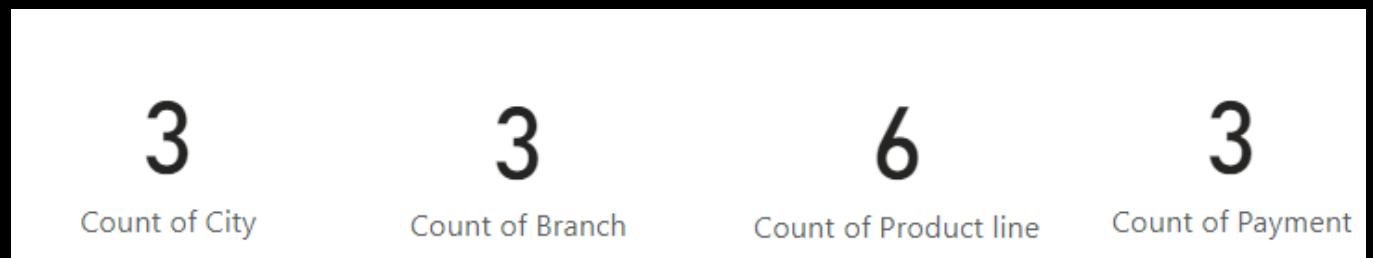


# Data preparation

1. **Data Cleaning:** We will start by cleaning the dataset, addressing any missing or erroneous entries but my data it cleaned .
2. **Exploratory Data Analysis (EDA):** Conduct a thorough exploration of the data to identify patterns, outliers, and trends.
3. **Descriptive Statistics:** Compute key statistical measures to gain insights into the central tendencies and distributions of the data.
4. **Visualization:** Utilize charts and graphs to visually represent the findings and make the analysis more accessible using power bi .



how many number  
of(cities and  
branches and  
products and  
payment method )  
?

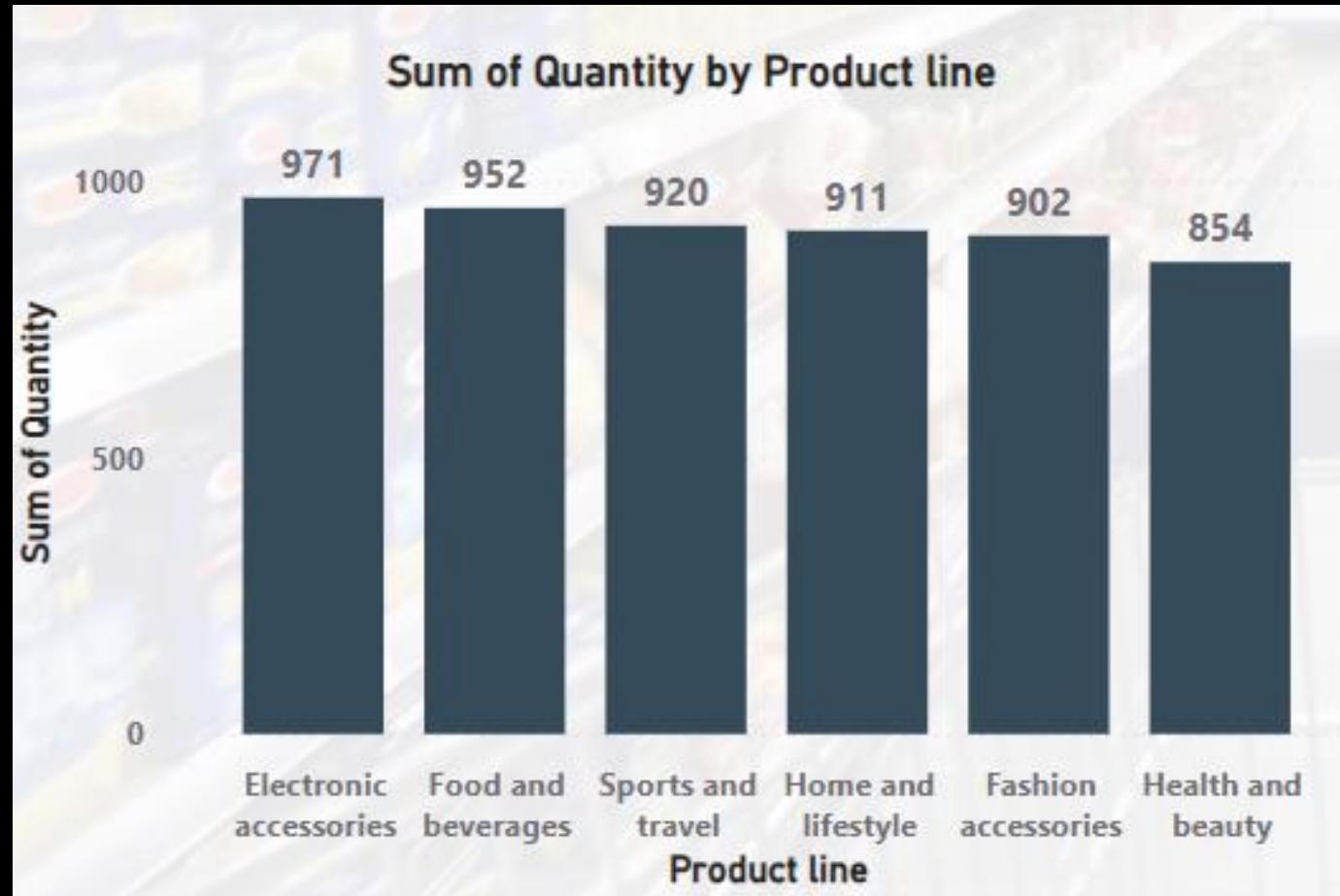


we want to  
know the  
sum of total  
money ?

322.97K

Sum of Total

we want to  
know the  
total quantity  
sold by every  
product ?

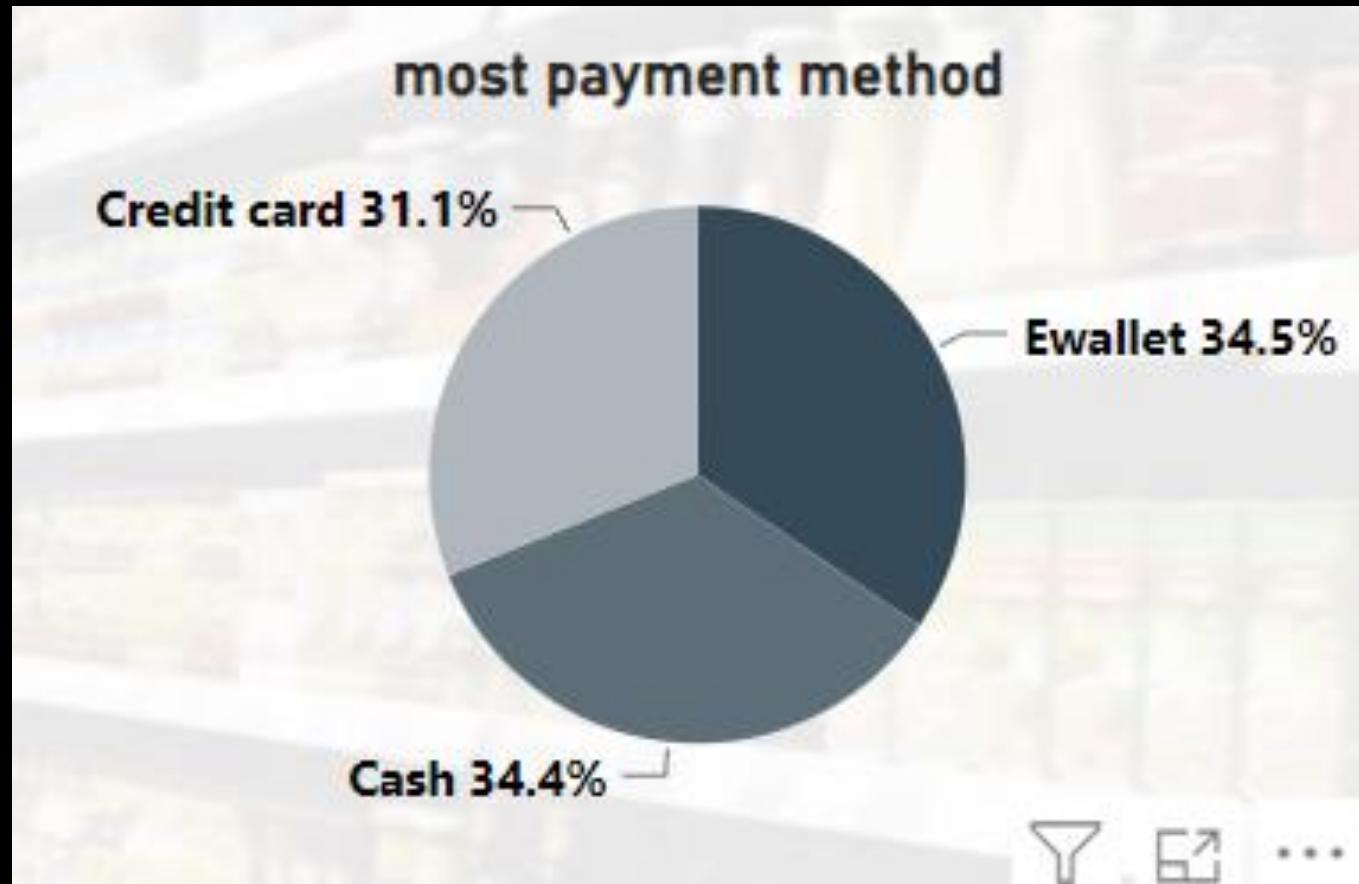


how many the  
product(Healt  
h and beauty)  
Sold in  
branch(A) ?

Count of product(Health and beauty) Sold in branch(A)

47

we want to  
know the most  
payment  
method used by  
customers ?



how many  
males and  
females in  
each city ?

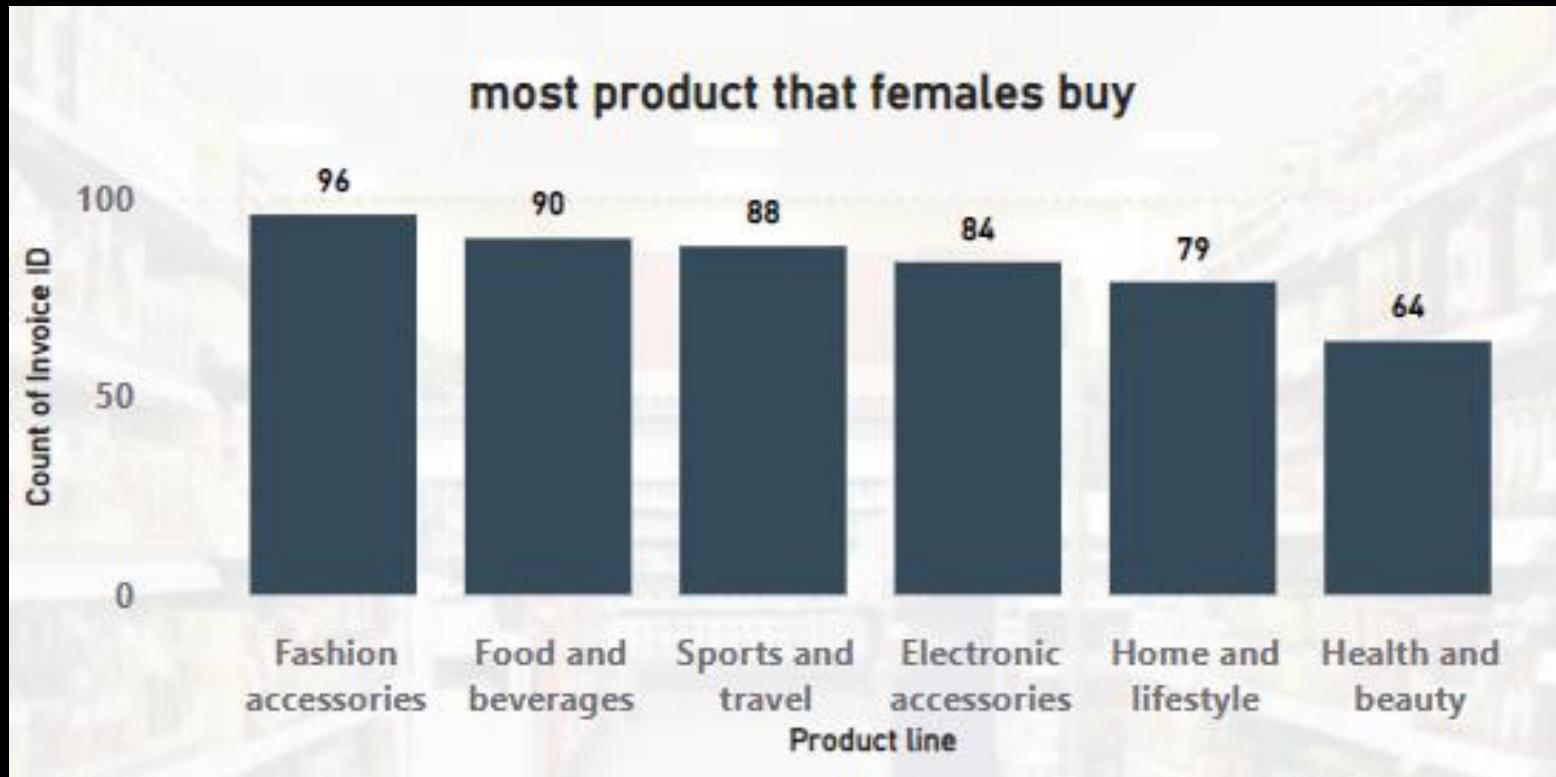
### how many males and females in each city

City	Female	Male	Total
Mandalay	162	170	332
Naypyitaw	178	150	328
Yangon	161	179	340
<b>Total</b>	<b>501</b>	<b>499</b>	<b>1000</b>

we want to  
know the  
average of  
rating for every  
product due to  
gender ?



"What is the  
most purchased  
product  
category by  
female  
members in the  
dataset?"



product (Health ) Sold in branch(A)

47

3

Count of Payment

322.97K

Sum of Total

3

Count of City

3

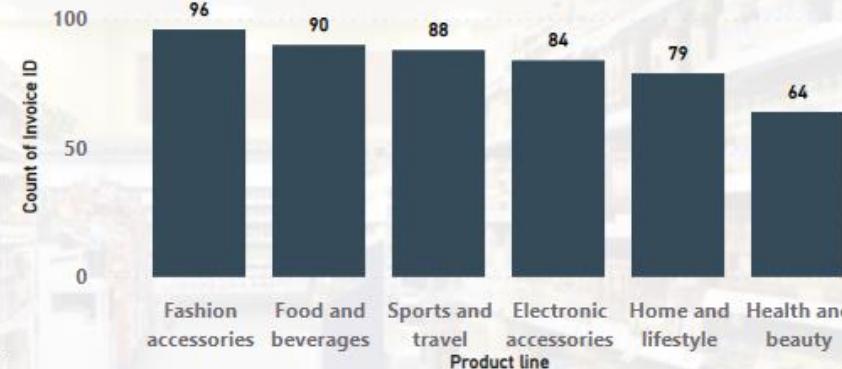
Count of Branch

6

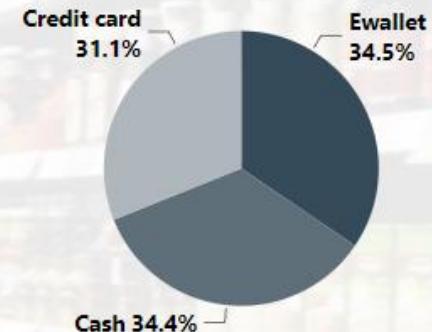
Count of Product line

## Sales Supermarket

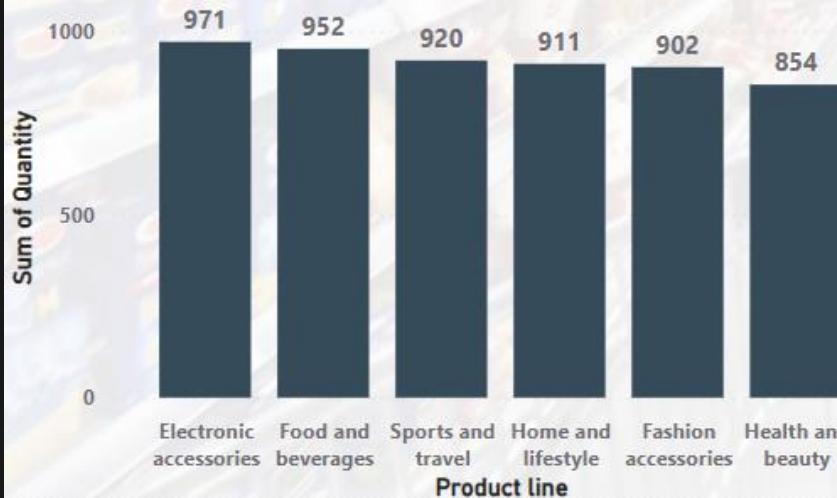
most product that females buy



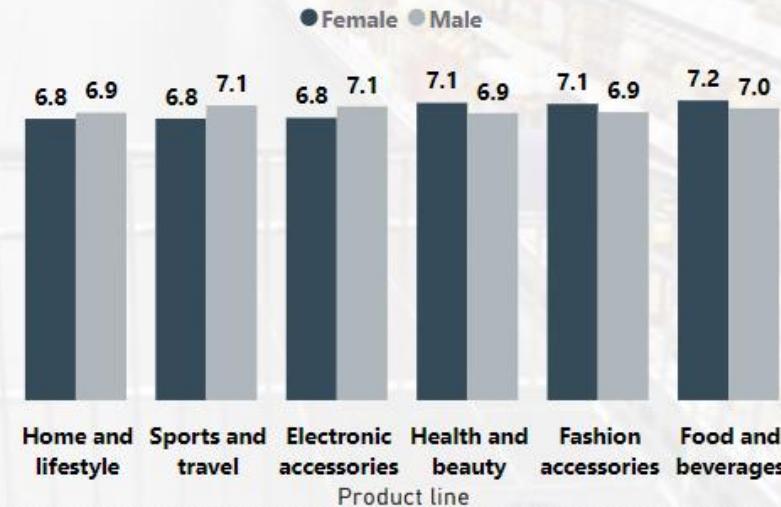
most payment method



Sum of Quantity by Product line



Average of Rating by Product line



Sales by gender in cities

City	Female	Male	Total
Mandalay	162	170	332
Naypyitaw	178	150	328
Yangon	161	179	340
<b>Total</b>	<b>501</b>	<b>499</b>	<b>1000</b>

# Dashboard

# Conclusion

## **City, Branch, and Product Line Statistics:**

Number of Cities: 3

Number of Branches: 3

Number of Product Lines: 6

Number of Payment Methods: 3

Sum of Total Amount: \$322,970

## **Quantity Insights:**

The largest quantity is associated with the product category "Electronic Accessories."

## **Branch-Specific Information:**

In Branch "A," the quantity sold for the product category "Health and Beauty" is 47.

# Conclusion

## Payment Method Insights:

1. The most frequently used payment method is "Ewallet."

## Gender Distribution:

1. The count of females is greater than males.

## Gender Distribution by City:

1. The count of "Male" is largest in (Mandalay, Yangon).
2. The count of "Female" is largest in Naypyitaw.

## Payment Method Usage:

1. All payment methods are observed to be very close in terms of usage.

## Most Purchased Product by Females:

1. The most purchased product category by females is "Fashion Accessories."