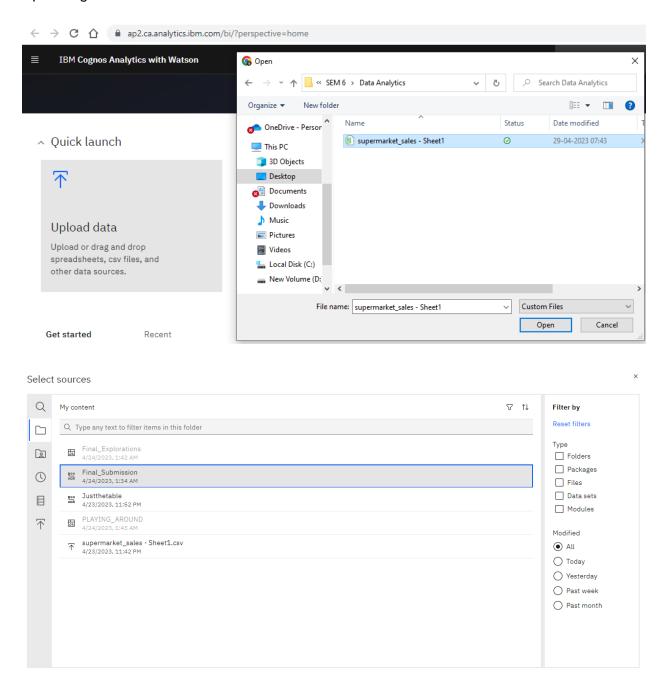
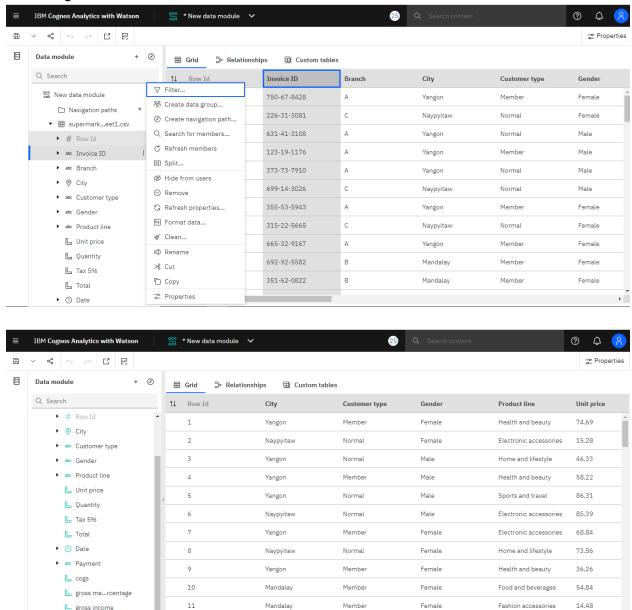
Naan Mudhalvan – IBM Data Analytics Assignment

Jayasankar Narayanan 2020506036

Uploading the Data



Removing unwanted Data

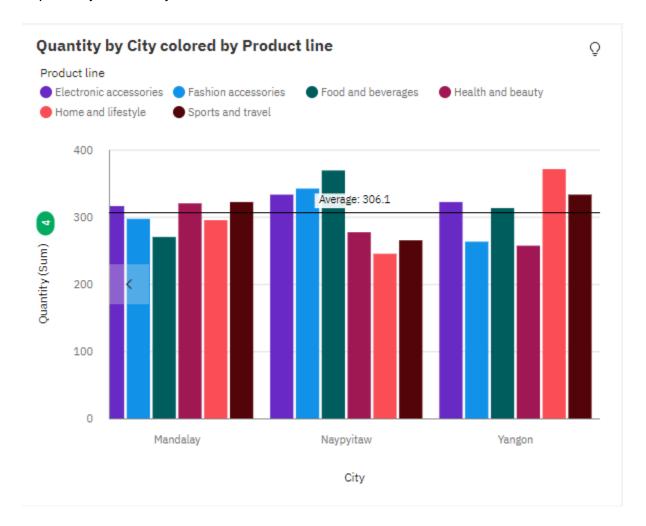


Cleaning the Data

L Rating

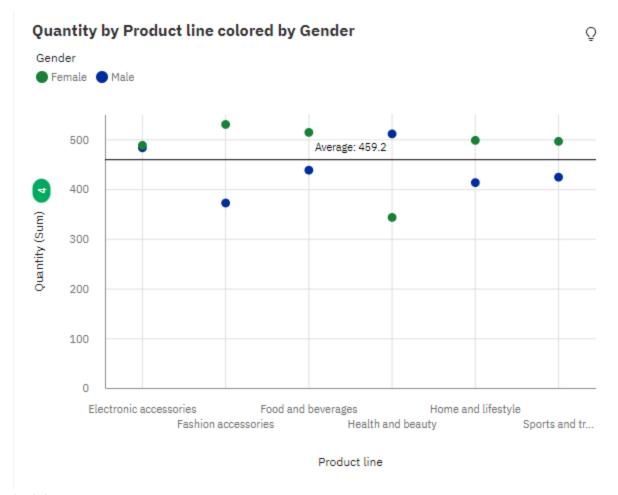
Clean - City	×
Whitespace	
Trim leading and trailing whites	pace
Convert case to	
○ UPPERCASE ○ lowercase	Do not change
Return a substring of characters	
Start	Length
Preview	
This is a preview	
NULL values	
✓ Replace this value with NULL	Empty string
Replace NULL values with	Empty string
Cancel	Clean

Exploratory Data Analysis



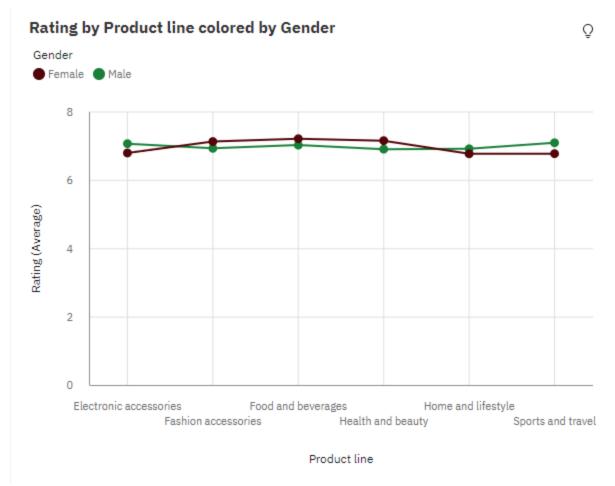
Insights Drawn:

- 1. Food and Beverages in Naypyitaw are being sold in large numbers, which differs from the other 2 cities.
- 2. The Home and Lifestyle product line is doing well in Yangon but not in other cities.
- 3. The Health and Beauty line is not doing well anywhere(just above average in Mandalay), improvements are needed, and there is a case for dropping the line altogether



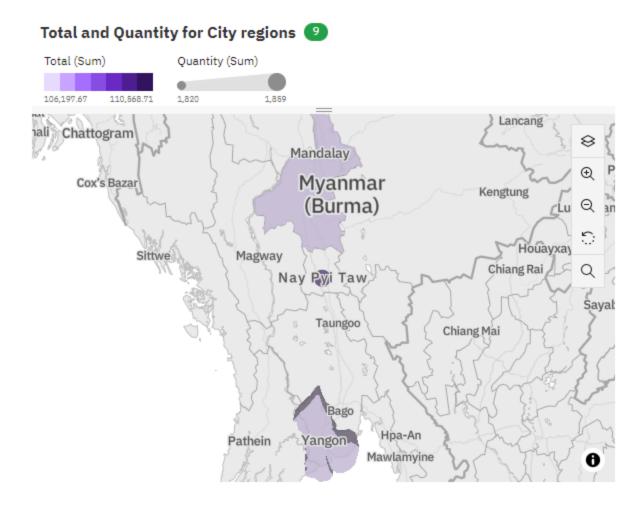
Insights

- 1. Electronic Accessories is the only product line that appeals to both men and women
- 2. 5 out of the 6 brands seem to be tailormade for women, so in order to bring in more male customers, they should try diversifying their products.
- 3. Their beauty products see a massive drop off in sales when selling to women which is in stark difference wrt their other product lines.



Insights

- 1. There doesn't seem to be a huge discrepancy in the ratings given for each product line. Despite a lot of products not being bought by men, they still tend to rate these at the same level as women.
- 2. Sports and Travel line has a decent difference between the ratings.



NayPyiTaw has made the most sales in terms of price. Yangon has sold the most goods but hasn't made as much revenue. So it is selling a lot of cheap goods.



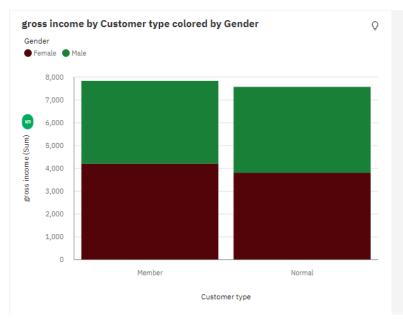
Details

Across all **customer types** and **payments**, the sum of **Quantity** is over 5500.

The summed values of **Quantity** range from 720 to over a thousand.

For **Quantity**, the most significant values of **Payment** are Cash and Ewallet, whose respective **Quantity** values add up to nearly four thousand, or 68.7 % of the total.

For **Quantity**, the most significant value of **Customer type** is Member, whose respective **Quantity** values add up to nearly three thousand, or 50.5 % of the total.



Details

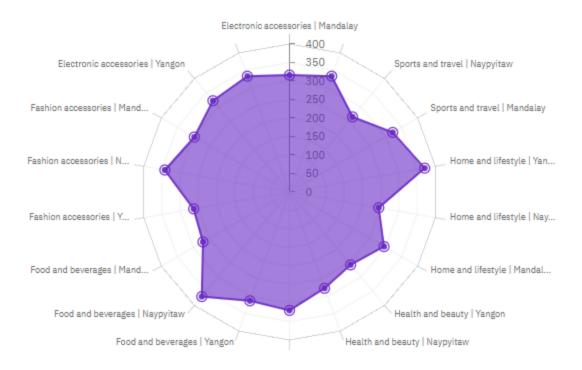
Across all **customer types** and **genders**, the sum of **gross income** is over fifteen thousand.

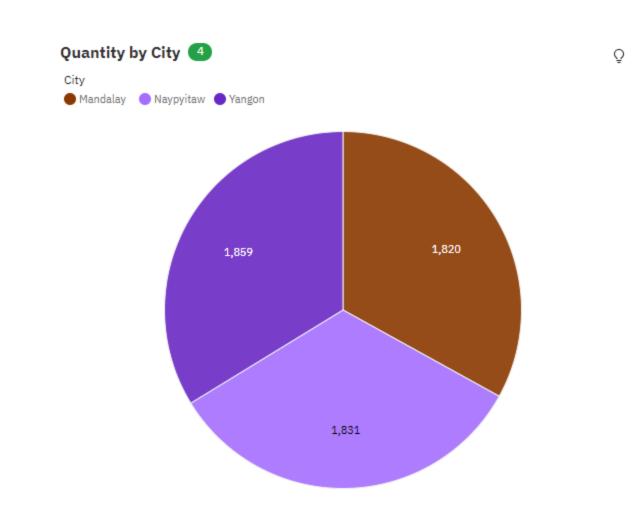
The summed values of **gross income** range from over 3500 to over four thousand.

For **gross income**, the most significant value of **Gender** is Female, whose respective **gross income** values add up to nearly eight thousand, or 52 % of the total.

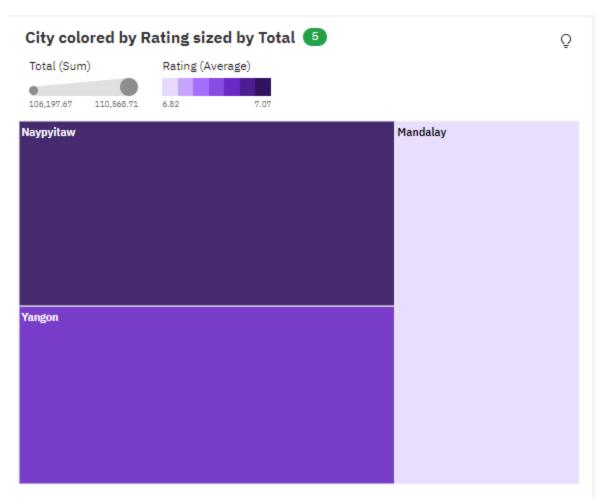
For **gross income**, the most significant value of **Customer type** is Member, whose respective **gross income** values add up to nearly eight thousand, or 50.8 % of the total.

Quantity by Product line and City





All 3 cities sell comparable amount of goods



Mandalay sells the most goods when compared to the other 2 cities, but the customers aren't satisfied.