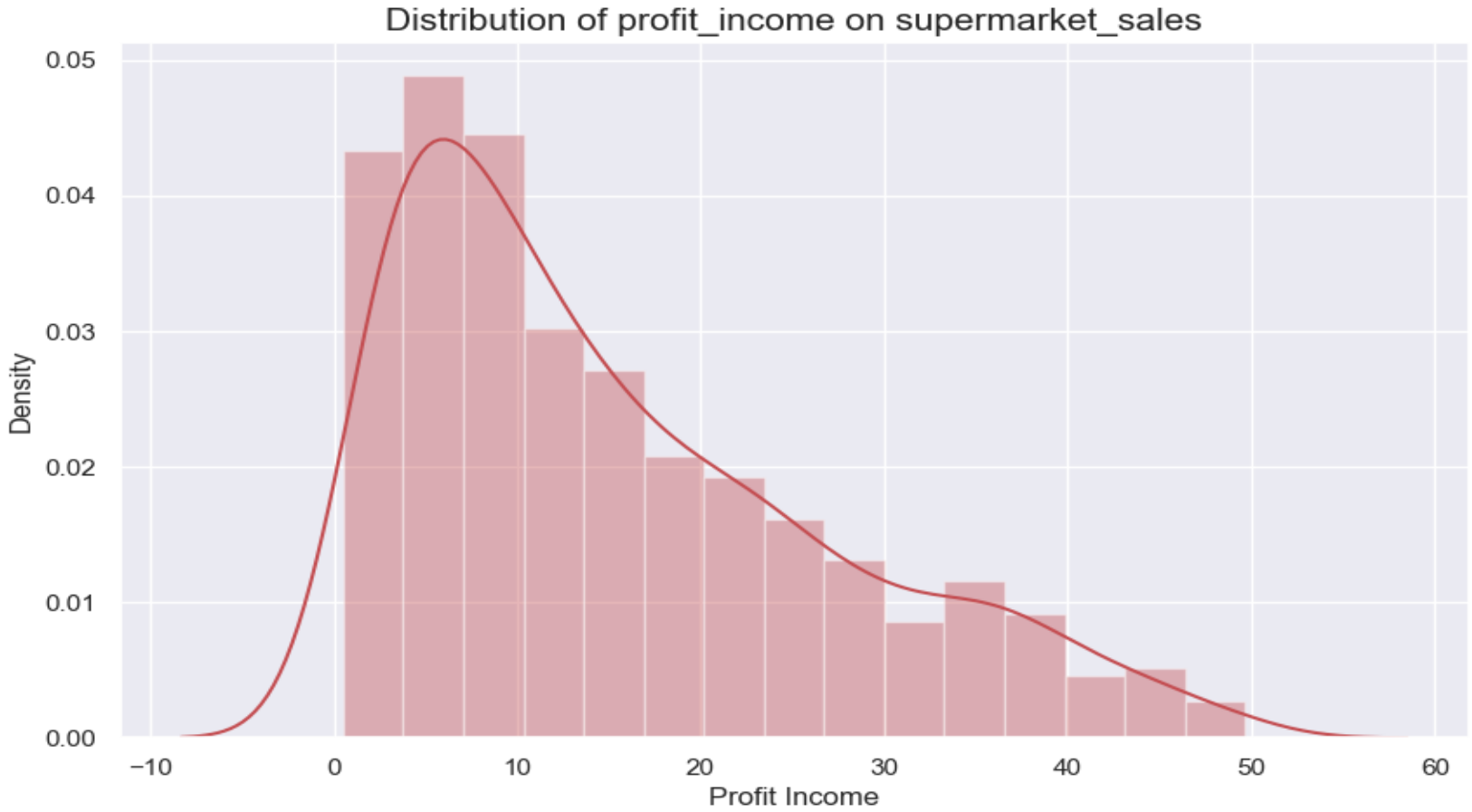
1.)Distribution of profit_income in range using Histrogram

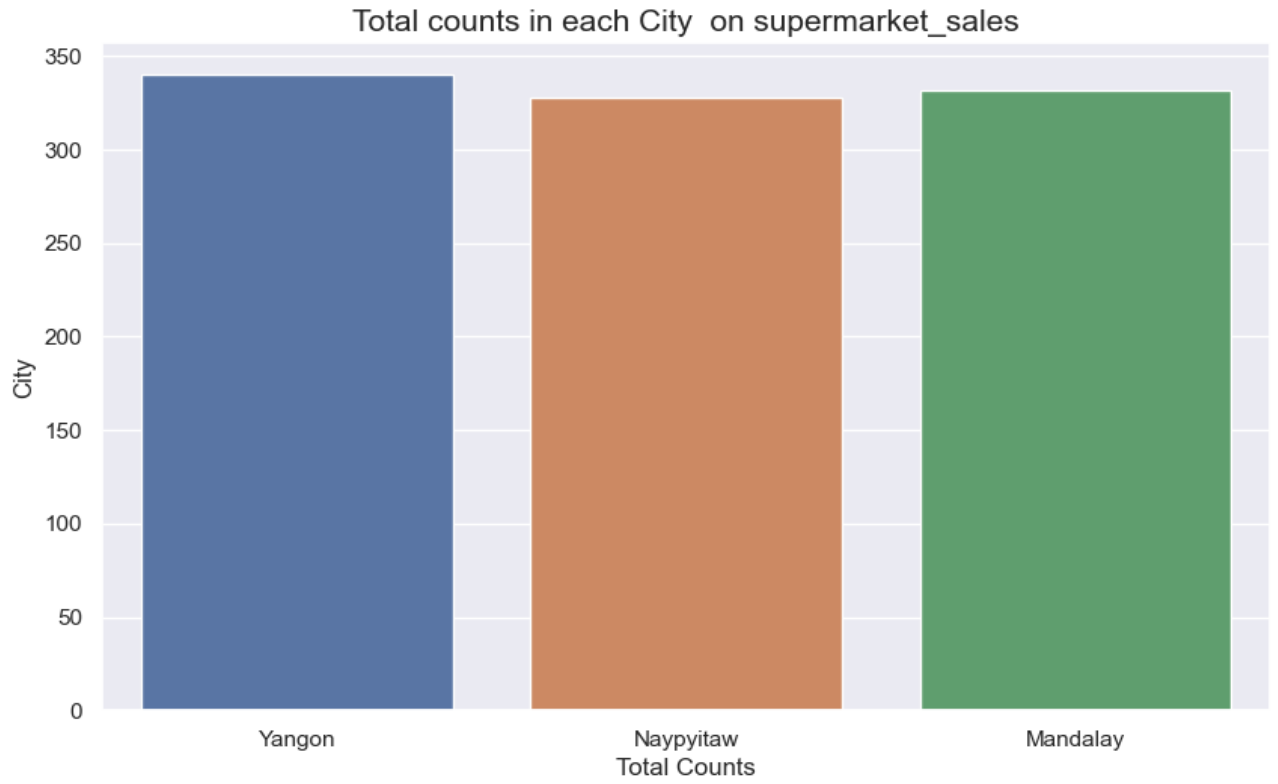


Observations

1.)The range of profit income being on supermarket_sales appears to be from 1 to 49 dollars ,with majority of profit income in the range 3 to 24.

2.)The distribution of profit to have a peak in the 1 to 49 dollars range,with a relatively higher and lower density of sales in higher and lower profit in range.

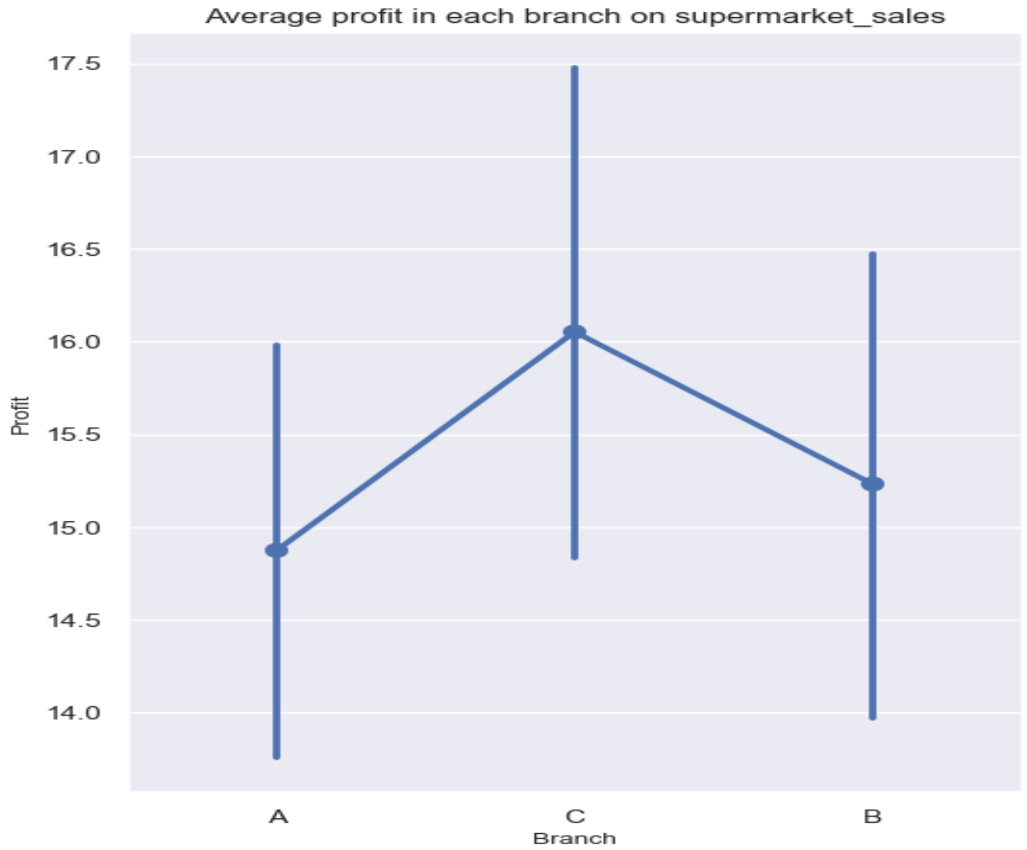
2.)Total counts in each City by using count plot.



Observations

1.)Yangon city has the highest number of sales on supermarket_sales with over 340 sales each. 2.)Naypyitaw and Mandalay have significantly similar ,with 332 and 328 sales each. 3.)This could suggest that the demand for sales in each product for city is not much effected.

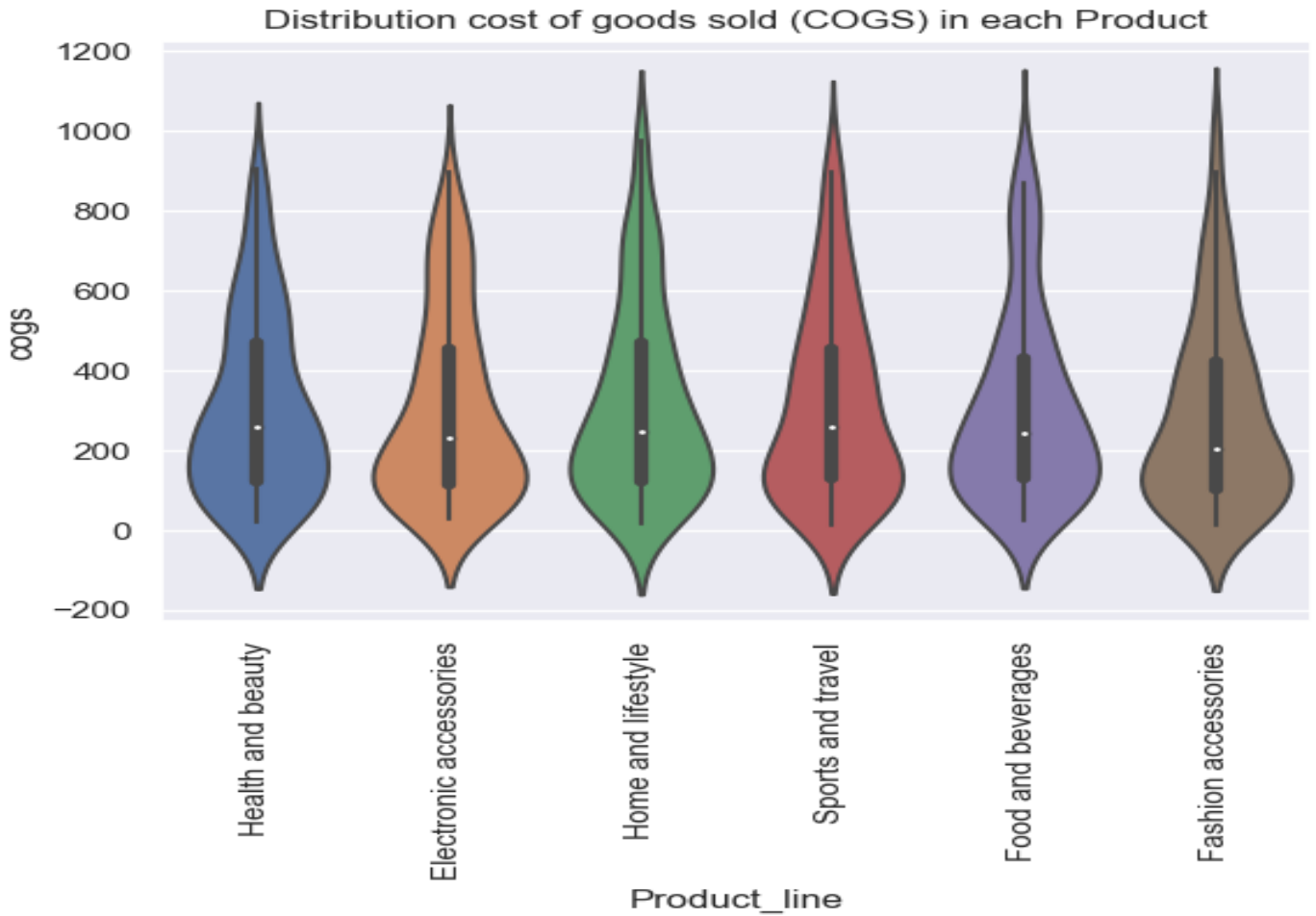
3.)Average profit in each branch on supermarket_sales using point plot.



- **Observations**

1.)The average profit on sales in supermarket varies varies significantely across different with A,B and C branch. 2.)Average profit increases to move the outer sales (A,B,C) from towards the center of the branch.

4.)Distribution cost of goods sold (COGS) in each Product using volinplot.



- **Observations**

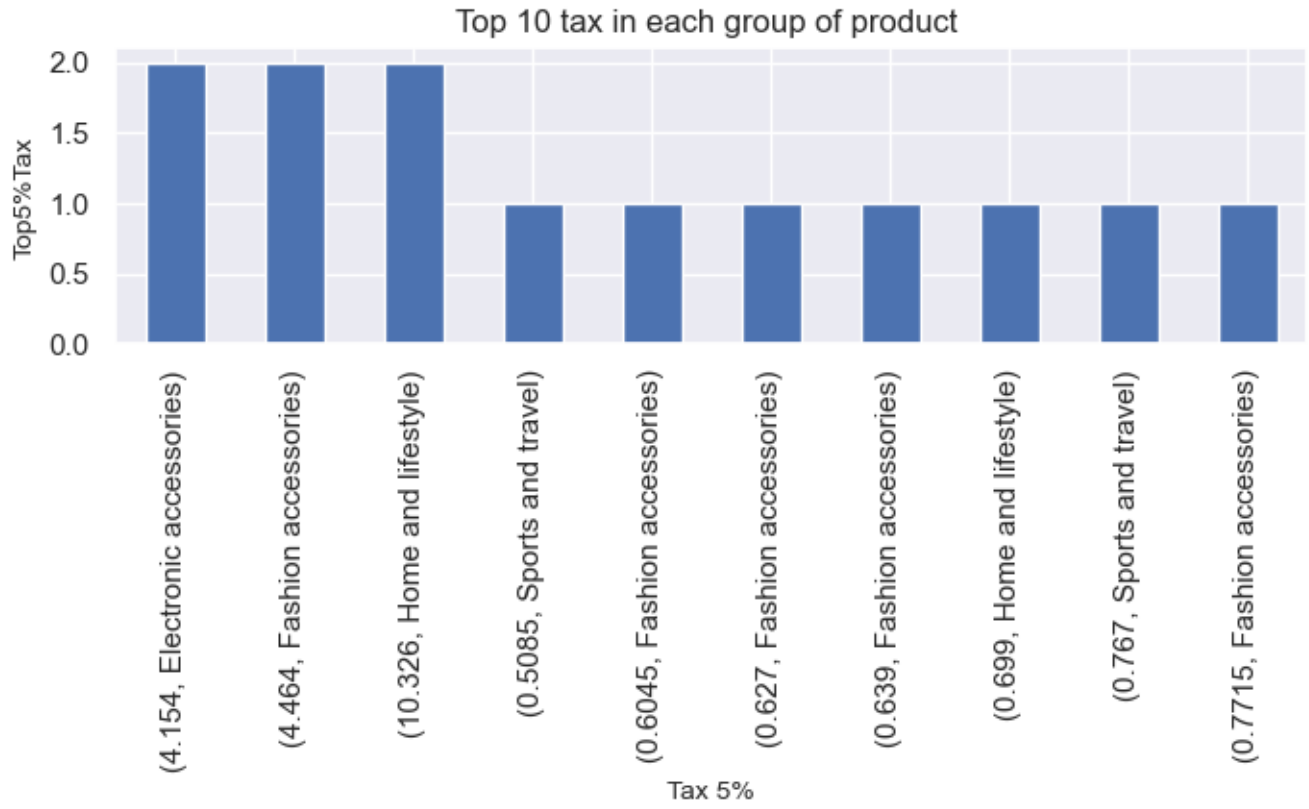
- 1.)COGS distribution is very high in Home and lifestyle,Foods and beverages ,Fashion accessories have more diversity in COGS range, you can see in violin plot. 2) have same cogs distribution but in are more distribution in to 1000

5.)Top rating on sales in super market bu using bar plot.

• Observations

- 1.)The top rating in super market in terms of sales in 6 is almost in top.
- 2.)7 rating is only few customer is satisfied.

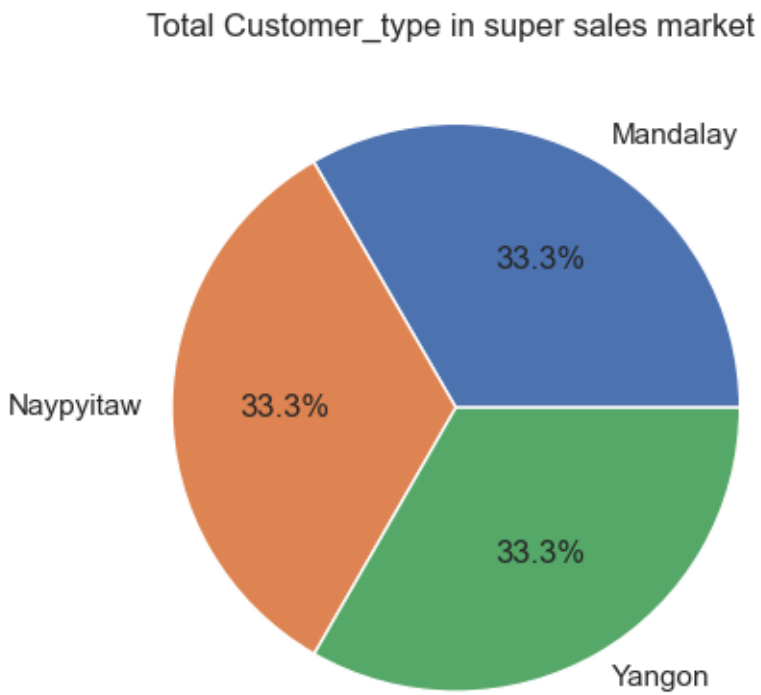
6.)Top tax in each group of product using bar plot.



Observations

- 1.)Top tax in product Electronic accessories,Fashion accessories,Home and lifestyle is almost similar. 2)Above Sports and travel almost all product tax is low it is fewersingnificant.

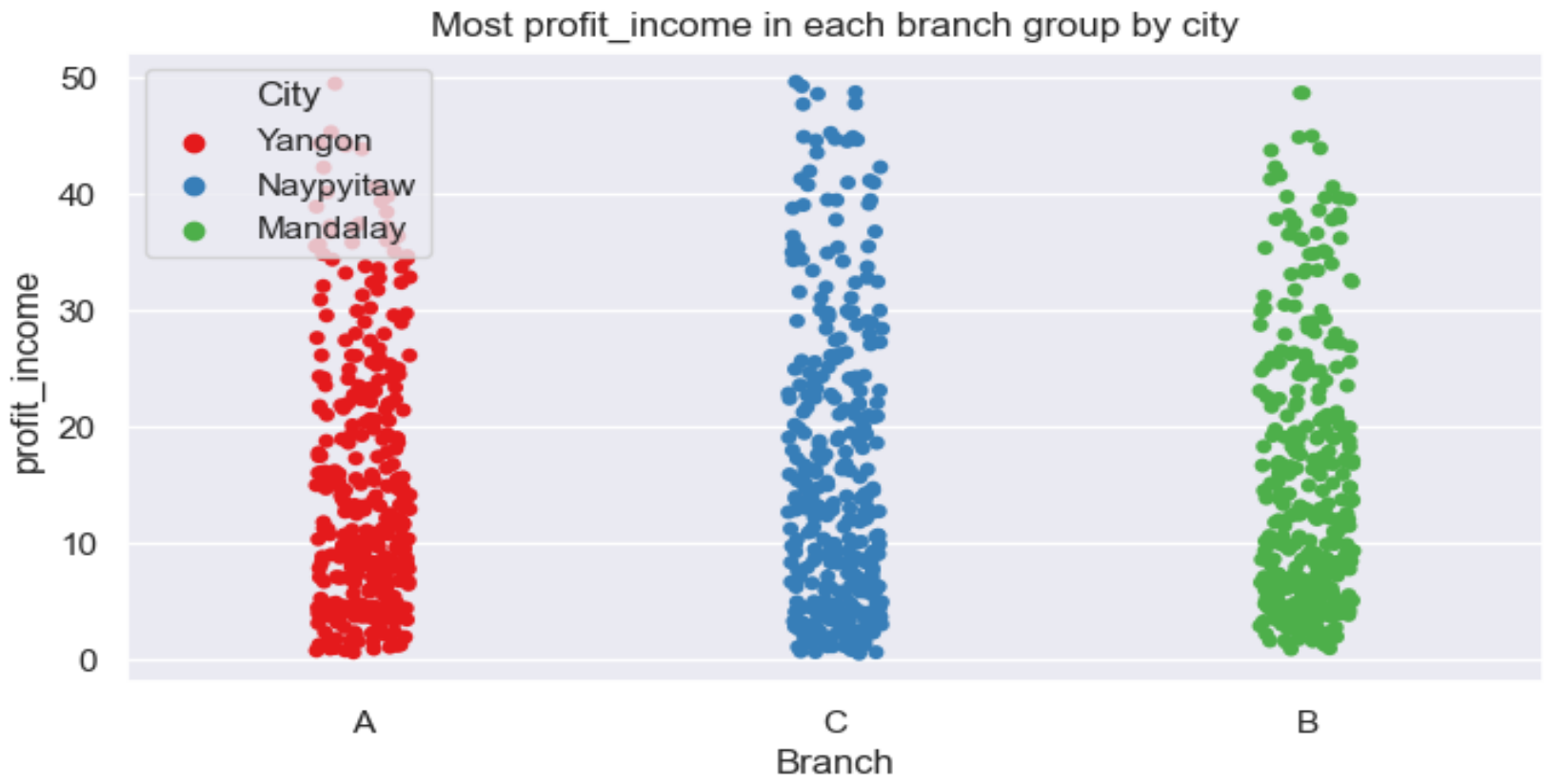
7.)Total unit price of each city using pie plot.



Observations

- 1.)In this visualization is find how each city unit price is similar percentange,no effect in any unit_price.
- 2.)Each city profit most.

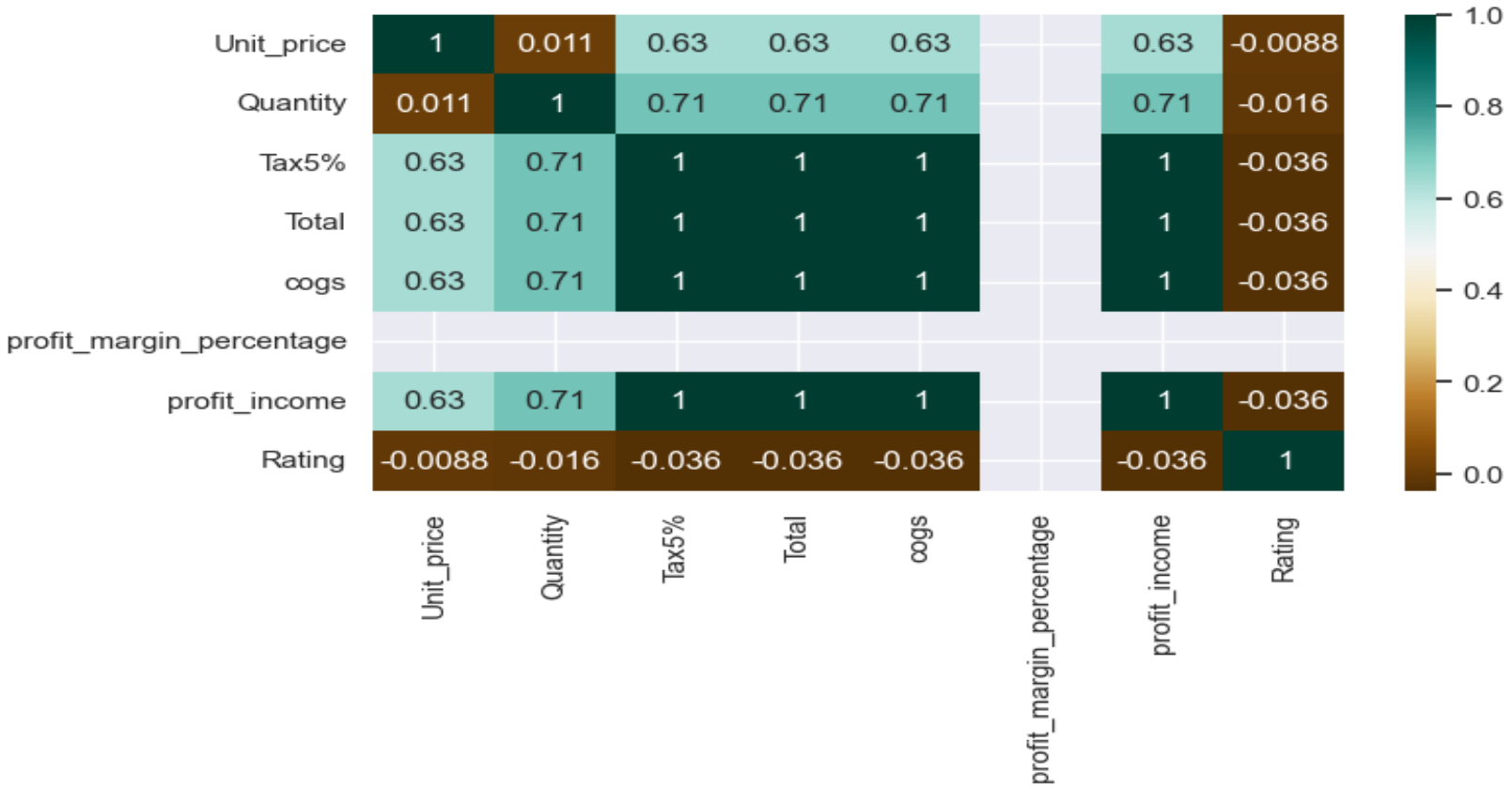
8.)Most profit_income in each branch group by city using stripplot.



Observations

1.)We can see that all branch recieved the most no of profit/month . 2.)Branch A got the most profit with above 50.

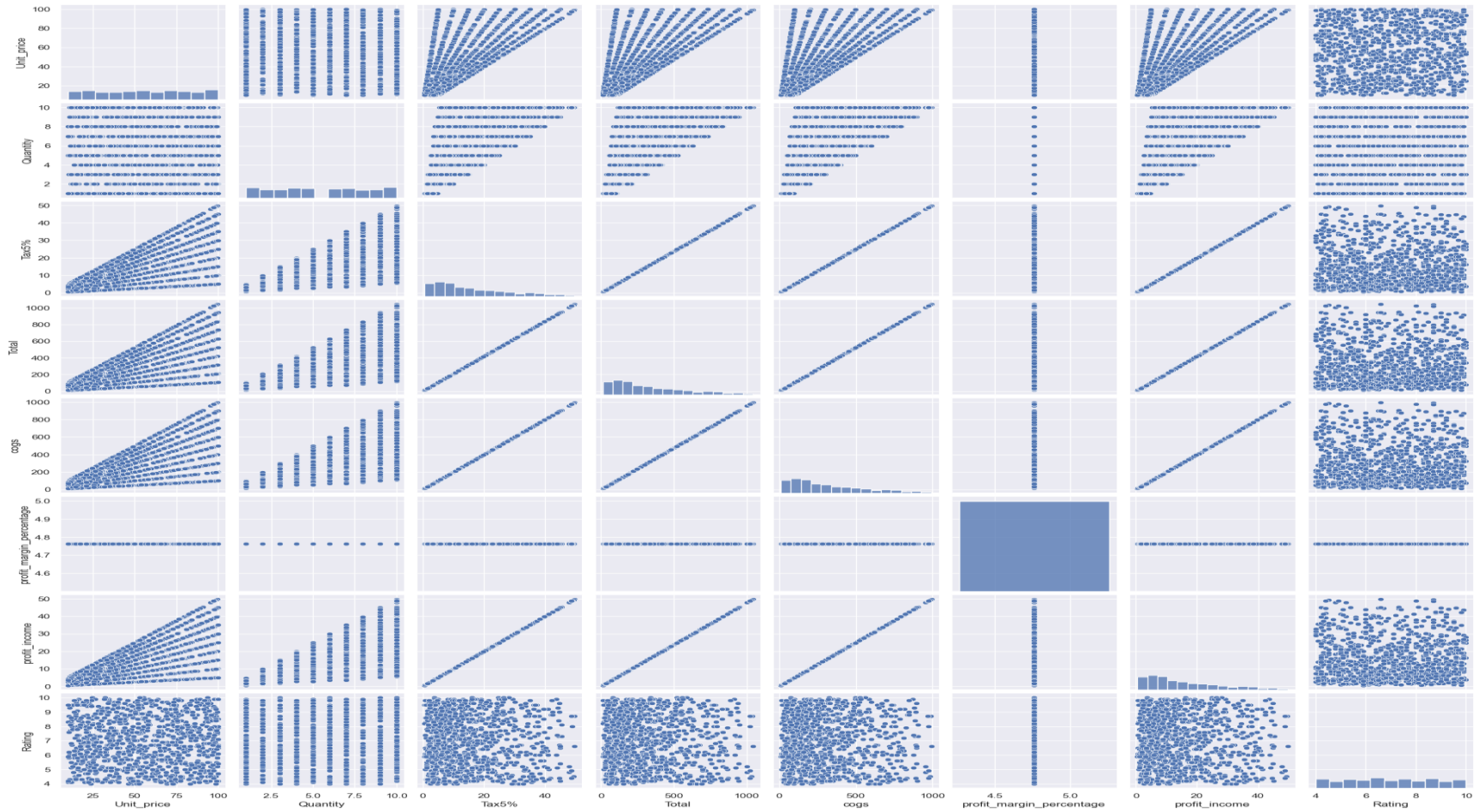
9.)Correlation visualization heatmap.



Observation

- 1.)Unit Price is mostly strong correlation in Tax5%,Total,Cogsand profit_income.
- 2.)Quantity is also strong relation in rating,profit_income,cogs,total_tax in this columns.
- 3.)Rating is weak correlation between all columns that means the customer is not satisfied all product.

10.)Pair Plot



Observation

1.) A pair plot consists of multiple scatterplots arranged in a grid, with each scatterplot showing the relationship between two variables

2.) It can be used to visualize relationships between multiple variables and to identify patterns in the data.