

# NM ASSIGNMENT

# 1

Done by Sanjay S

Data Set Link: [Supermarket sales \(kaggle.com\)](https://www.kaggle.com/datasets/santoshkrishna1997/supermarket-sales)

**Step 1 : Create a new data module from the uploaded CSV file for visualizing data**

The screenshot shows the Power BI Desktop interface. On the left, the 'Data module' pane is open, displaying a search bar and a list of data sources. The 'New data module' option is selected, showing a folder named 'Navigation paths' and a list of columns: 'Row Id', 'Invoice ID', 'Branch', 'City', 'Customer type', 'Gender', 'Product line', 'Unit price', and 'Quantity'. On the right, the 'Grid' view is active, showing a preview of the data. The preview displays a table with columns and rows, and a green checkmark icon is visible in the top right corner of the table area.

## Step 2 : Using data module , create more explorations and pin it.

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New exploration

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https://us3.ca.analytics.ibm.com/bi/?perspective=explore&id=iF24D1DD28A7745139894DC772...

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IBM Cognos Analytics

New exploration

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What's New: To read about what's new in Explore, click More Info.

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Cards

1

Payment by Pay...ed by Payment

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1

Data relationships

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Payment by Payment colored by Payment

Payment

● Cash ● Credit card ● Ewallet

Payment (Count)

400

300

200

100

0

344 (34.4%)

311 (31.1%)

345 (34.5%)

Cash

Credit card

Ewallet

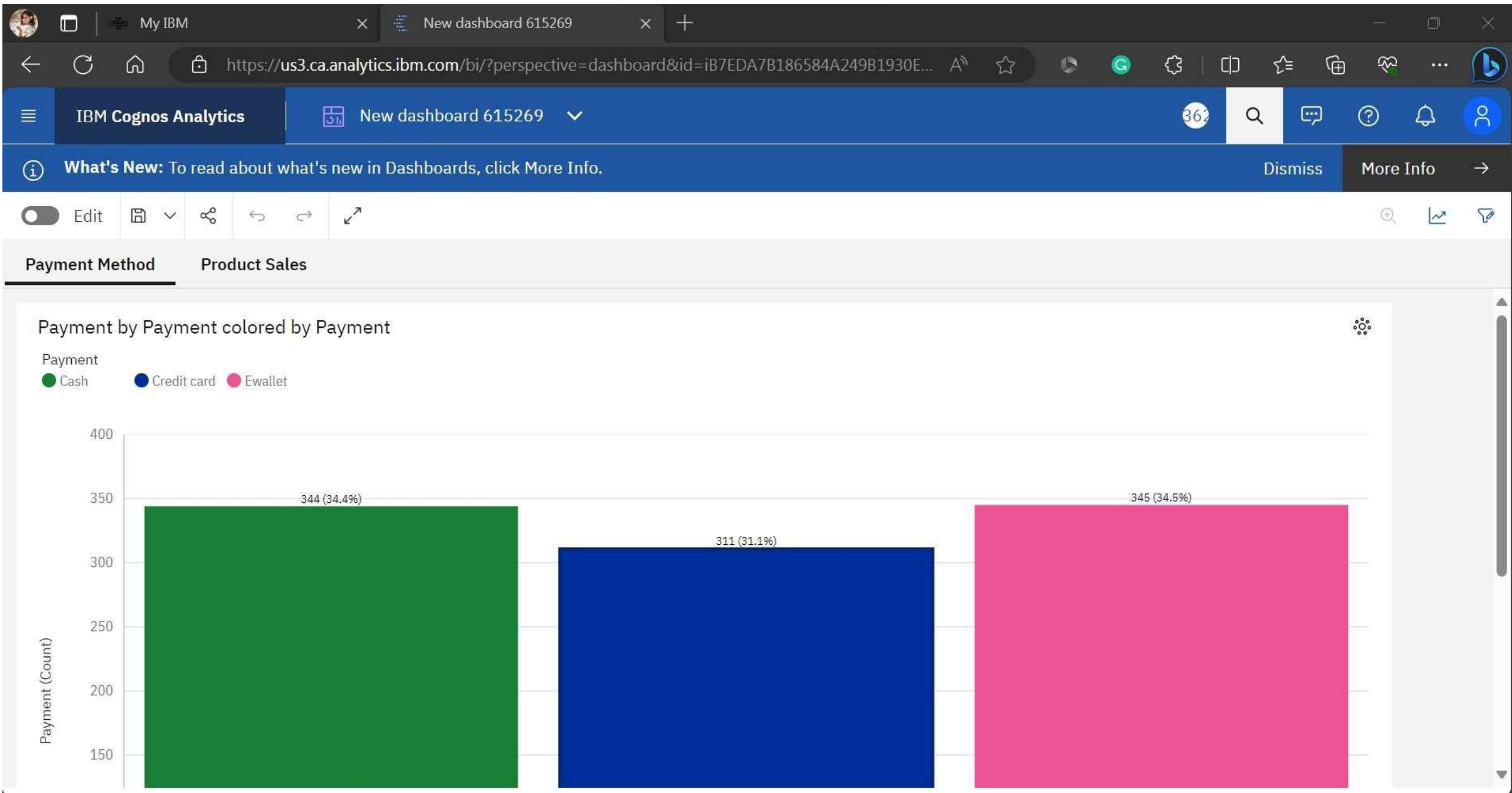
Payment

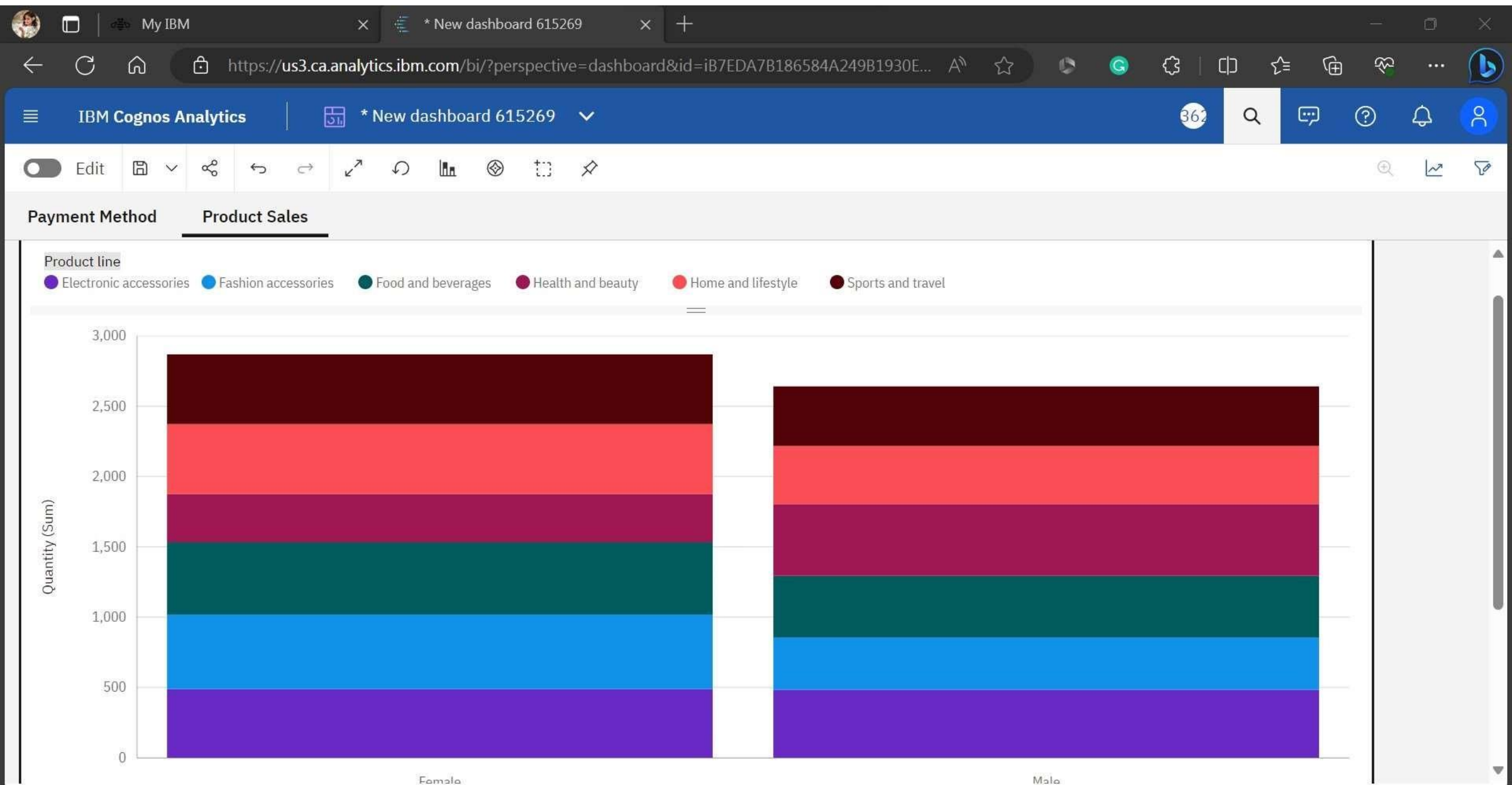
Details

The total number of results for **Payment**, across all **payments**, is a thousand.

Ewallet (34.5 %) and Cash (34.4 %) are the most frequently occurring categories of **Payment** with a combined count of 689 items with **Payment** values (68.9 % of the total).

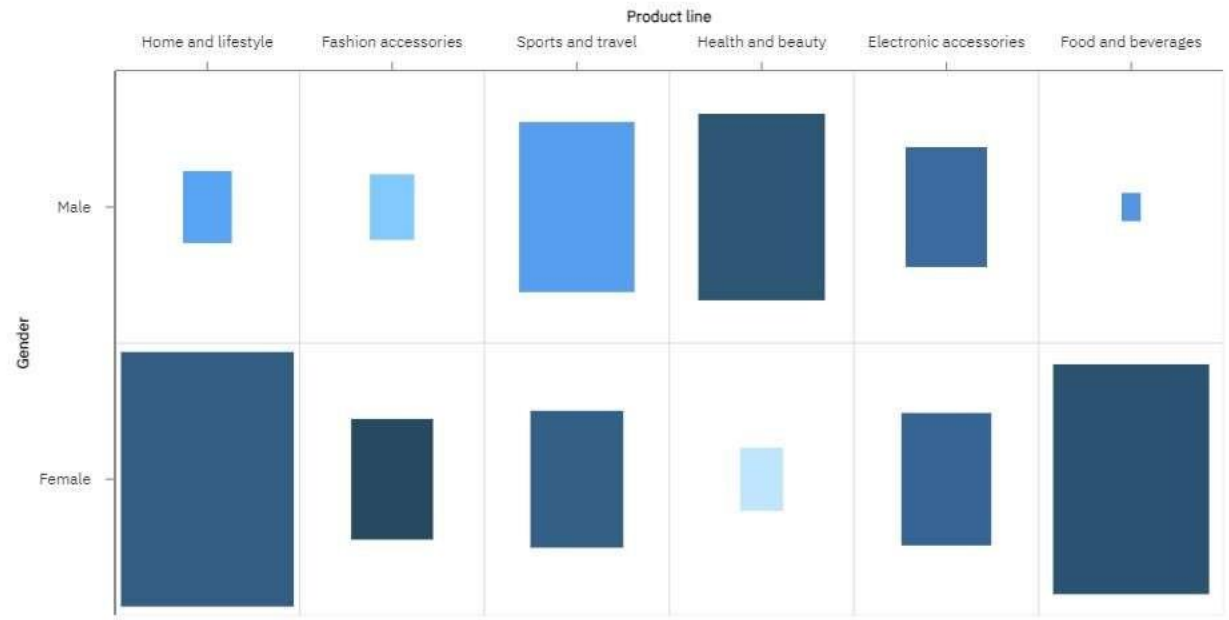
## Step 3 : Using the pins, create Dashboard



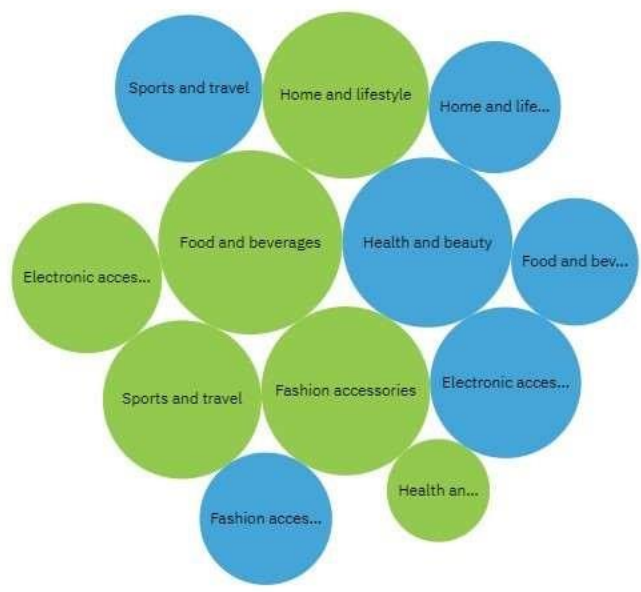


Product Sales

Tax vs Quantity



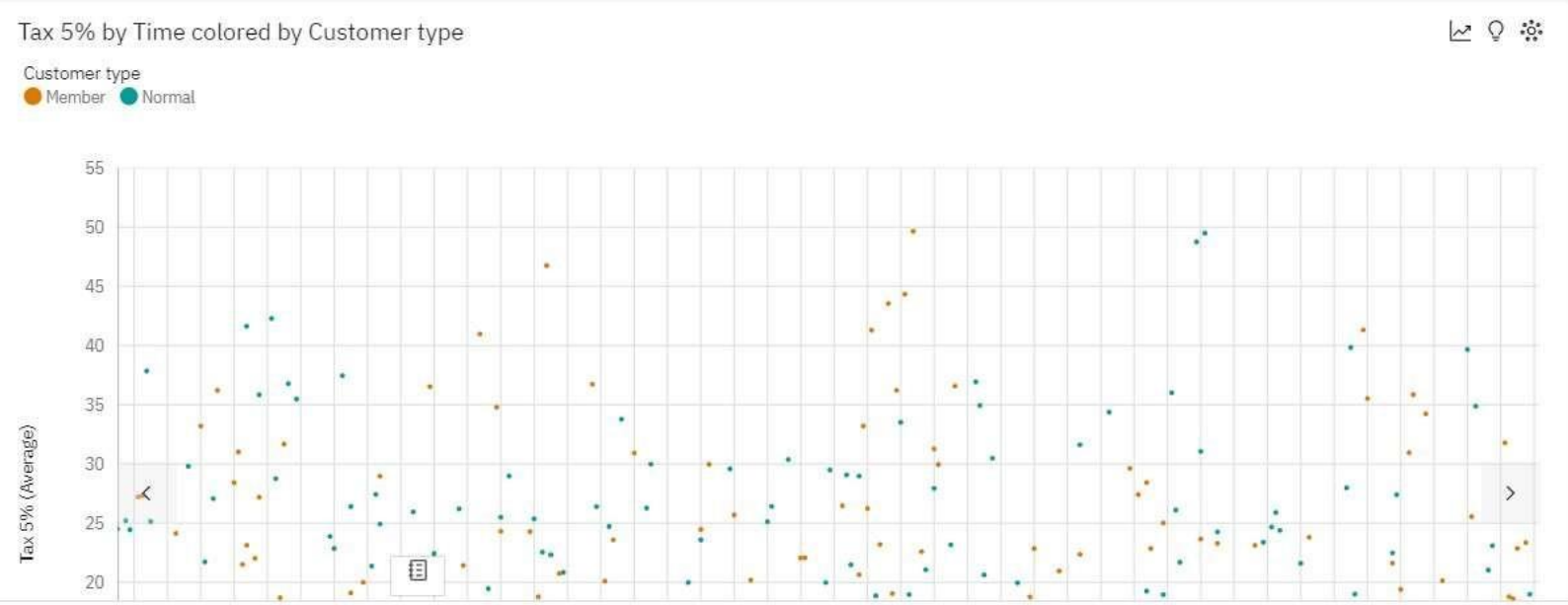
Male Vs Female





# TAX

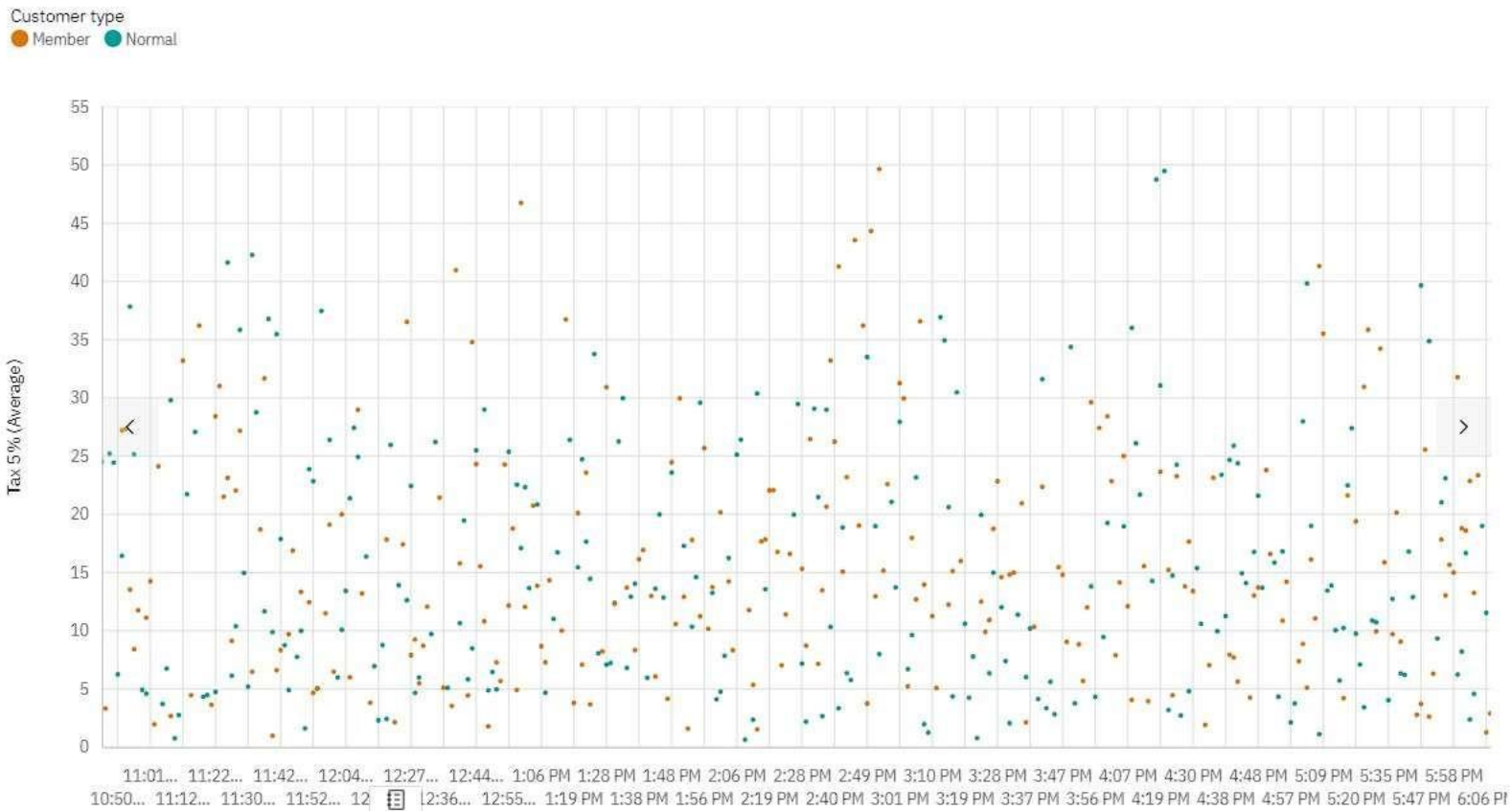
- Customer type Member has the highest values of both Tax 5% and Total.
- Add insight to favorites
- 14:53:00 has a Tax 5% of 49.65 for Customer type Member.
- Add insight to favorites
- 11:25:00 has a higher Tax 5% from Customer type Normal than 20:51:00.
- Add insight to favorites
- Time 14:42:00 has the highest Total Total but is ranked #182 in Average Tax 5%.
- Add insight to favorites
- Time 16:20:00 has the highest Average Tax 5% but is ranked #93 in Total Total.
- Add insight to favorites
- Customer type Member has the highest Tax 5% at 5467, out of which Time 14:53:00 contributed the most at 49.65.
- Add insight to favorites
- Time 20:51:00 has the highest average Tax 5% due to Customer type Normal.
- Add insight to favorites
- Member is the most frequently occurring category of Customer type with a count of 501 items with Tax 5% values (50.1 % of the total).
- Add insight to favorites
- 19:48:00 (0.7 %), 14:42:00 (0.7 %), and 17:38:00 (0.6 %) are the most frequently occurring categories of Time with a combined count of 20 items with Tax 5% values (2 % of the total).



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- Add insight to favorites
- Over all times and customer types, the average of Tax 5% is 15.38.
- Add insight to favorites
- The average values of Tax 5% range from 0.639 to 49.65.
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Tax 5% by Time colored by Customer type

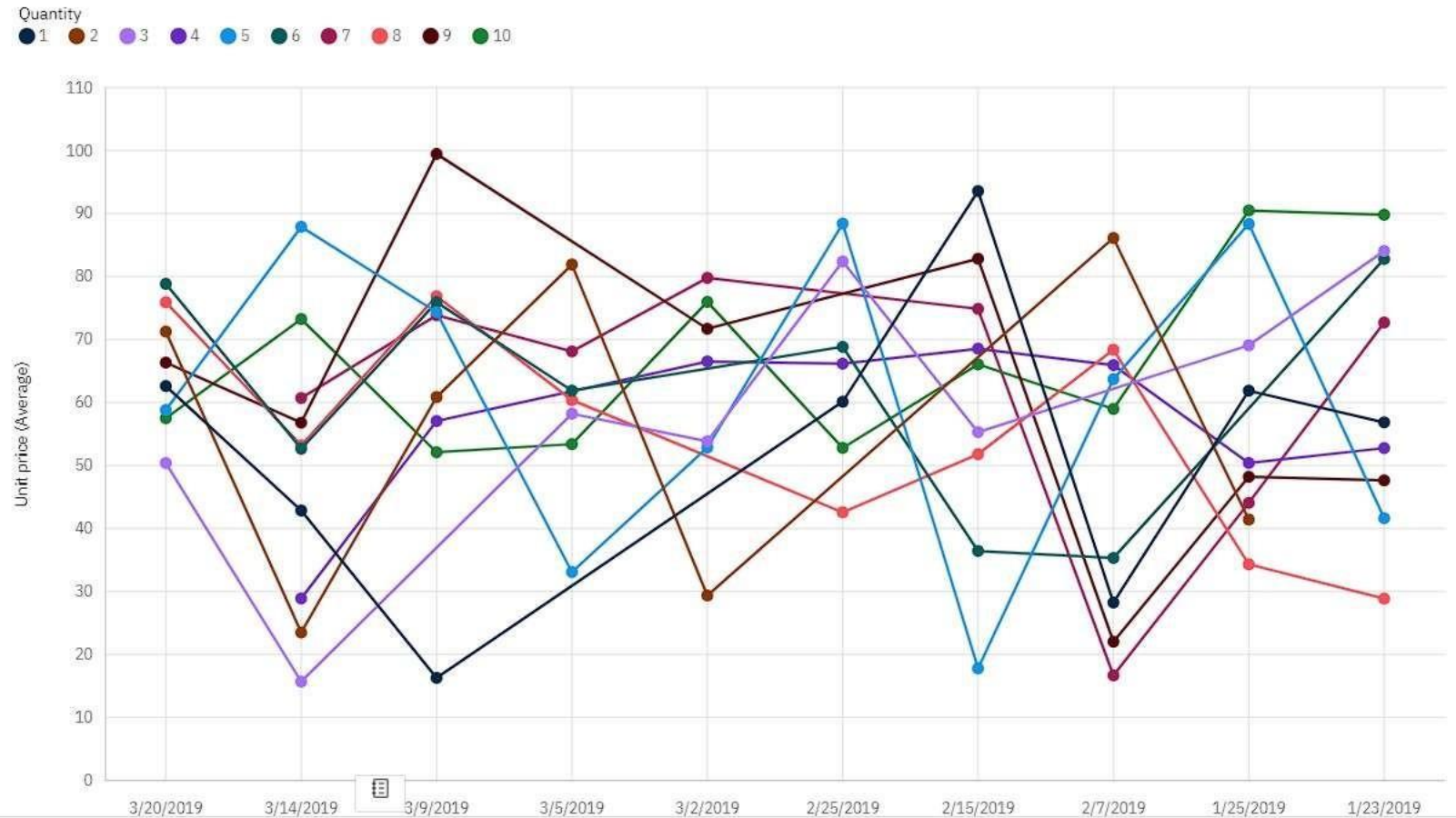




# DATE VS PRICE

- Date 2019-02-25 has the highest Average Unit price but is ranked #9 in Total Total.
- Quantity 10 has the highest Total cogs but is ranked #6 in Average Unit price.
- Date 2019-03-09 has the highest Unit price at 586.8, out of which Quantity 9 contributed the most at 99.47.
- Quantity 7 has the highest Average Unit price but is ranked #3 in Total cogs.
- Date 2019-03-09 has the highest Total Total but is ranked #2 in Average Unit price.
- Quantity 10 Unit price from Date 2019-01-25 is 90.5, whereas 5 is only 88.36.
- Quantity 10 has the highest average Unit price due to Date 2019-01-25.
- 9 has a Unit price of 99.47 for Date 2019-03-09.
- Add insight to favorite
- 2019-02-07 (11.6 %) and 2019-02-15 (11 %) are the most frequently occurring categories of Date with a combined count of 39 items with Unit price values (22.5 % of the total).
- Add insight to favorites
- 3 (12.1 %) and 10 (12.1 %) are the most frequently occurring categories of Quantity with a combined count of 42 items with Unit price values (24.3 % of the total).
- Add insight to favorites
- Over all dates and quantities, the average of Unit price is 59.63.
- Add insight to favorites
- The average values of Unit price range from 15.69 to 99.47.

Unit price by Date colored by Quantity



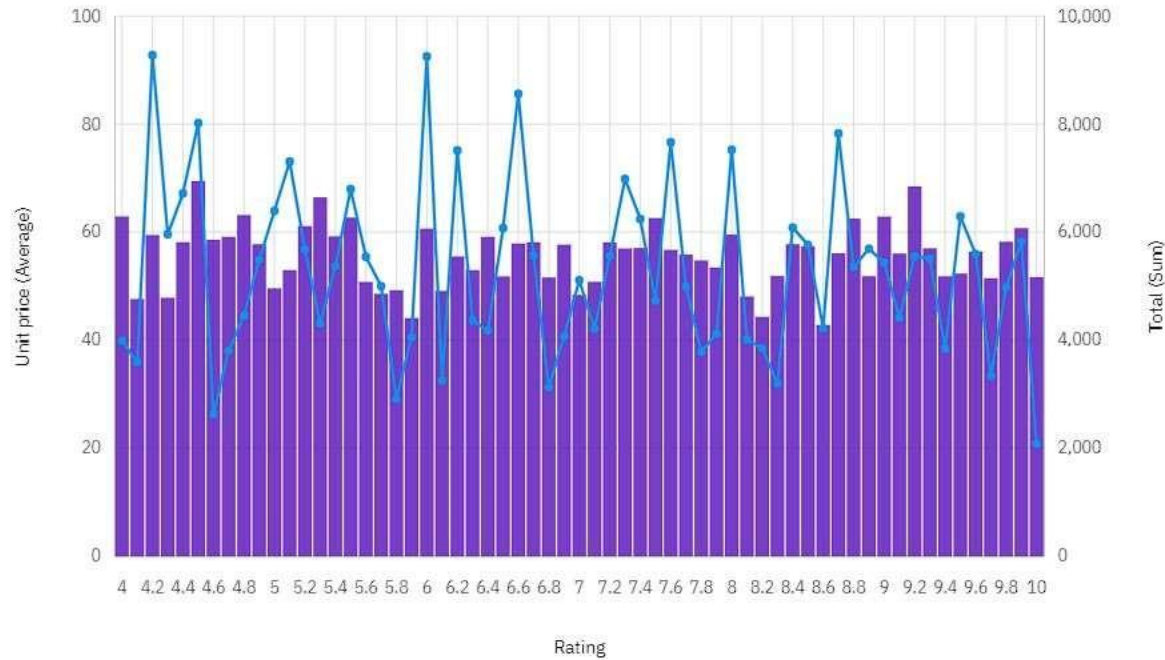
# Rating Vs Price

- Rating 4.2 has the highest Total cogs but is ranked #14 in Average Unit price.
- Rating 4.5 has the highest Average Unit price but is ranked #4 in Total cogs.
- 6 (2.6 %) and 6.6 (2.4 %) are the most frequently occurring categories of Rating with a combined count of 50 items with Unit price values (5 % of the total).
- Over all ratings, the average of Unit price is 55.67.
- The average values of Unit price range from 42.8, occurring when Rating is 8.6, to 69.44, when Rating is 4.5.
- Rating 4.2 has the highest values of both Total and cogs.
- Over all ratings, the sum of Total is nearly 323 thousand.
- Total ranges from over two thousand, when Rating is 10, to almost 9500, when Rating is 4.2.
- For Total, the most significant values of Rating are 4.2, 6, and 6.6, whose respective Total values add up to over 27 thousand, or 8.4 % of the total.

Total and Unit price by Rating

Column  
 ● Unit price (Average)

Line  
 ● Total (Sum)



# Time Vs Unit Price

- Time 14:42:00 has the highest Total Total but is ranked #252 in Average Unit price.
- Time 14:42:00 has the highest Total cogs but is ranked #252 in Average Unit price.
- Time 13:33:00 has the highest Average Unit price but is ranked #212 in Total cogs.
- Time 13:33:00 has the highest Average Unit price but is ranked #212 in Total Total.
- The total number of results for Unit price, across all times, is a thousand.
- Over all times, the sum of cogs is almost 308 thousand.
- cogs ranges from 12.78, when Time is 14:11:00, to almost 2500, when Time is 14:42:00.
- For cogs, the most significant values of Time are 14:42:00 and 13:48:00, whose respective cogs values add up to nearly five thousand, or 1.6 % of the total.
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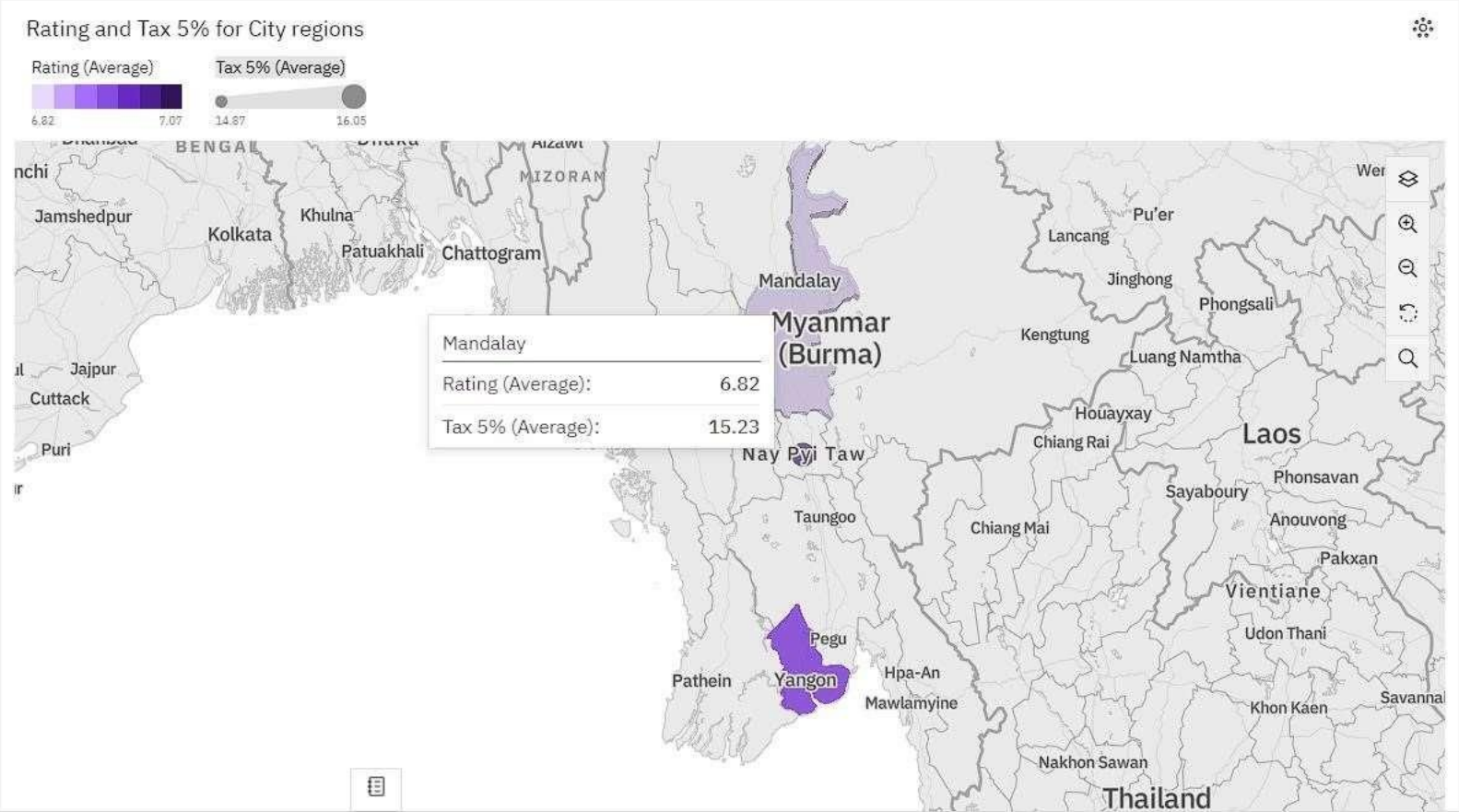
Time colored by Unit price sized by cogs





# Rating Vs Taxes

- City Naypyitaw has the highest values of both Rating and Tax 5%.
- Add insight to favorites
- It is projected that by 2019-04-17, Yangon will exceed Naypyitaw in Rating by 0.61.
- From 2019-02-20 to 2019-02-21, Yangon's Rating dropped by 42%.
- Yangon is the most frequently occurring category of City with a count of 340 items with Rating values (34 % of the total).
- Over all cities, the average of Rating is 6.973.
- The total number of results for Tax 5%, across all cities, is a thousand.
- The average values of Rating range from 6.818, occurring in Mandalay, to 7.073, in Naypyitaw.



# Total Vs Unit Price Vs Date

- Date 2019-03-09 has the highest values of both Unit price and Total.
- 2019-02-07 (11.9 %) and 2019-02-15 (11.3 %) are the most frequently occurring categories of Date with a combined count of 39 items with Unit price values (23.2 % of the total).
- Over all dates, the average of Unit price is 58.54.
- The average values of Unit price range from 51.15, occurring when Date is 2019-02-07, to 67.35, when Date is 2019-03-09.
- Date 2019-03-09 has the highest values of both Total and cogs.
- Across all dates, the sum of Total is over 65 thousand.
- Total ranges from over 5500, when Date is 2019-03-19, to nearly 7500, when Date is 2019-03-09.
- For Total, the most significant values of Date are 2019-03-09, 2019-02-07, 2019-03-14, 2019-02-15, and 2019-03-02, whose respective Total values add up to over 35 thousand, or 54.3 % of the total.
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