

# NM ASSIGNMENT 1

Done by Sriram K

TEAM ID : NM2023TMID07102

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

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

My IBM

New data module

https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i1335A9E2C3714B1D8A6F7...

IBM Cognos Analytics

New data module

362

Dismiss

More Info

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

Grid

Relationships

Custom tables

Search

New data module

Navigation paths

supermark...heet1.csv

# Row Id

abc Invoice ID

abc Branch

City

abc Customer type

abc Gender

abc Product line

Unit price

Quantitv

Preview data

To preview data, select a table, a column in a table, or a folder that contains columns.

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

My IBM

New exploration

+

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

IBM Cognos Analytics

New exploration

362

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

Dismiss

More Info

1/1

Payment by Payment colored by Payment

Payment

Cash

Credit card

Ewallet

Payment	Count	Percentage
Cash	344	34.4%
Credit card	311	31.1%
Ewallet	345	34.5%

Payment (Count)

Cash

Credit card

Ewallet

Payment

Details

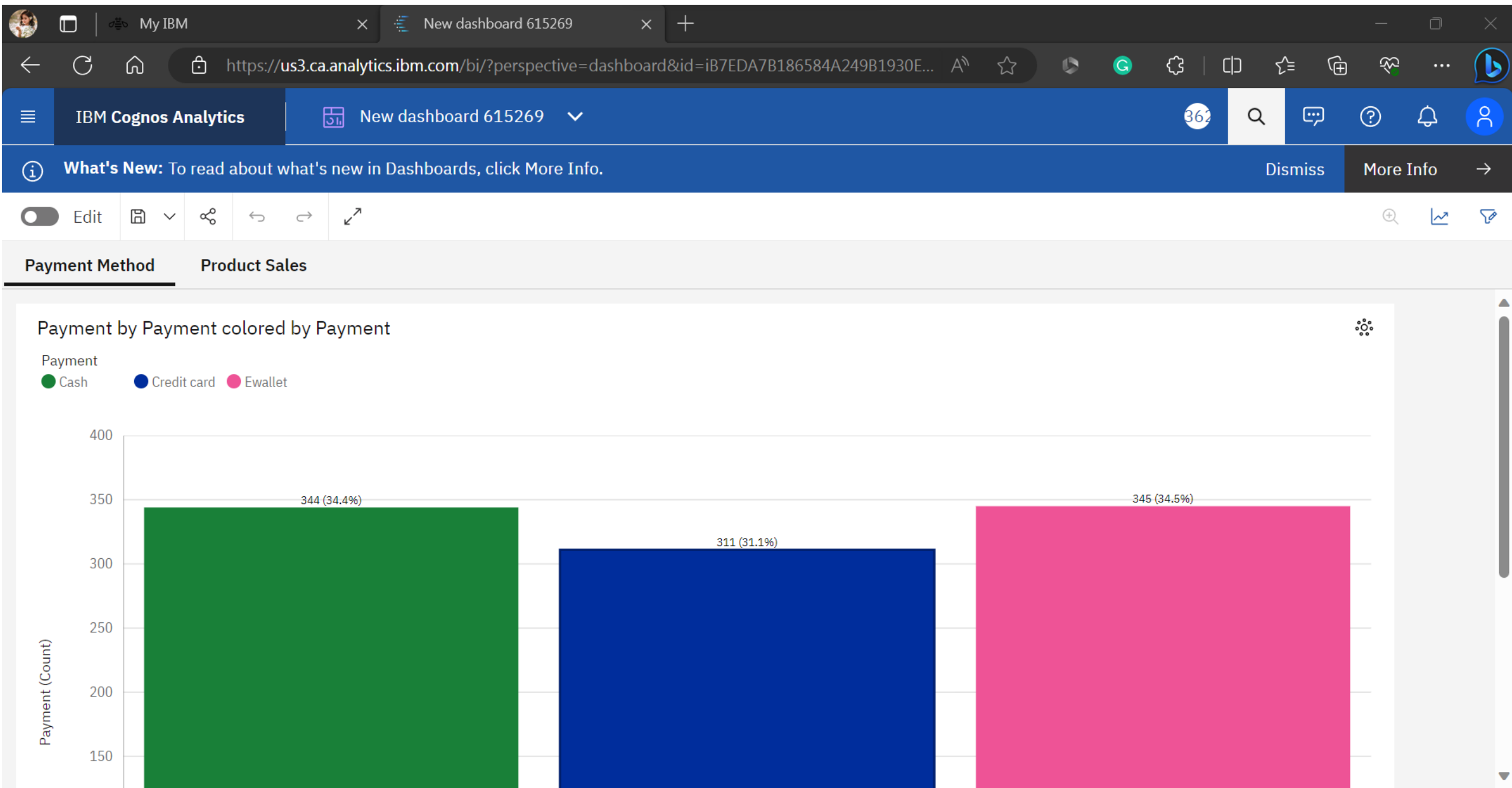
The total number of results for **Payment**, across all **payments**, is a thousand.

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).

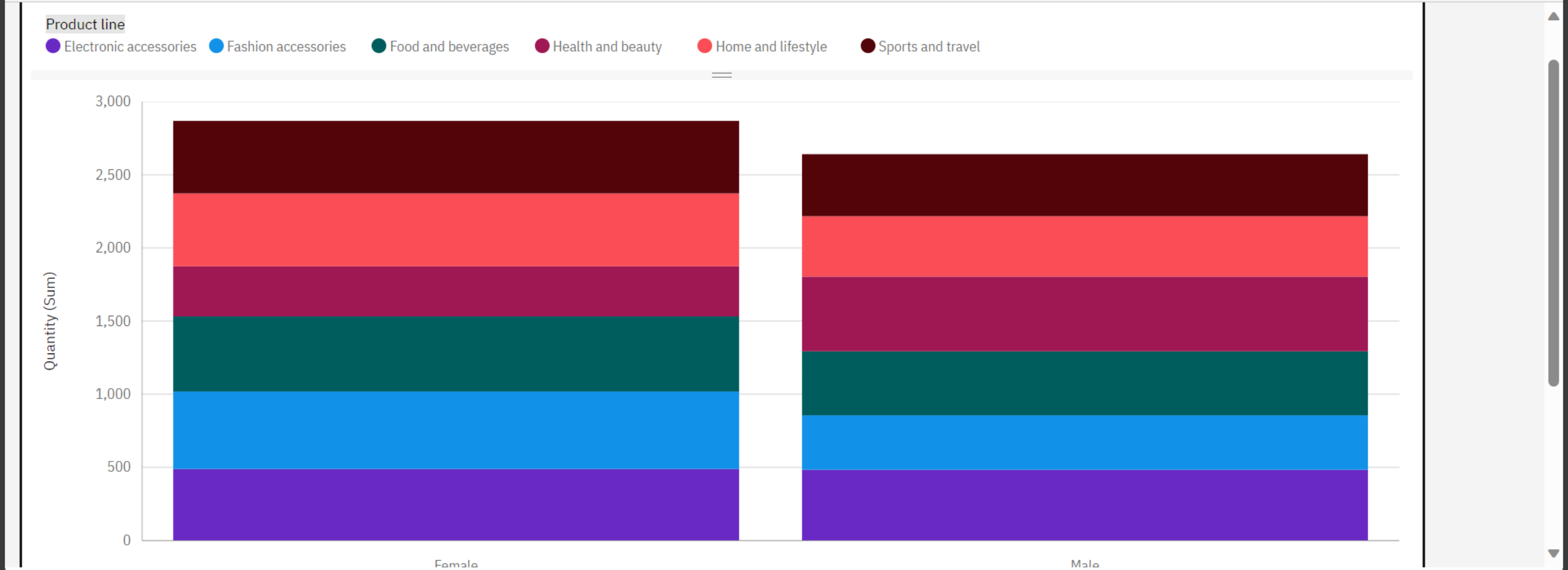
1

Data relationships

## Step 3 : Using the pins, create Dashboard



Payment Method | **Product Sales**



Step 4 : After done with that dashboard, Now create a report.

My IBM

New report111

https://us3.ca.analytics.ibm.com/bi/?perspective=authoring&id=i8513C2546DDC40D6B3...

IBM Cognos Analytics

New report111

362

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

Dismiss

More Info

Edit

HTML

Filters

Product Sales

Tax vs Quantity

Tax 5%

Quantity

13.0237678871429

18.1054113924051

343

830

Male Vs Female

Total

Gender

18,560.9865

33,170.9175

Male

Female

Product line

Home and lifestyle

Fashion accessories

Sports and travel

Health and beauty

Electronic accessories

Food and beverages

Male

Female

Sports and travel

Home and lifestyle

Home and life...

Food and beverages

Health and beauty

Food and bev...

Electronic acces...

Sports and travel

Fashion accessories

Electronic acces...

Fashion acces...

Health an...

Sep 29, 2023

1

9:27:19 PM

## Step 5: After done with that report, Create a story to view our visualizations in the form of slides.

My IBM

New story111

+

https://us3.ca.analytics.ibm.com/bi/?perspective=story&id=i332284B91CAA43E8965E06...

IBM Cognos Analytics

New story111

362

Q

Analytics

Filters

Edit

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).

Tax 5% by Time colored by Customer type

Customer type

Member

Normal

Prev scene

Next scene

Scene 1 of 6

0:01.3

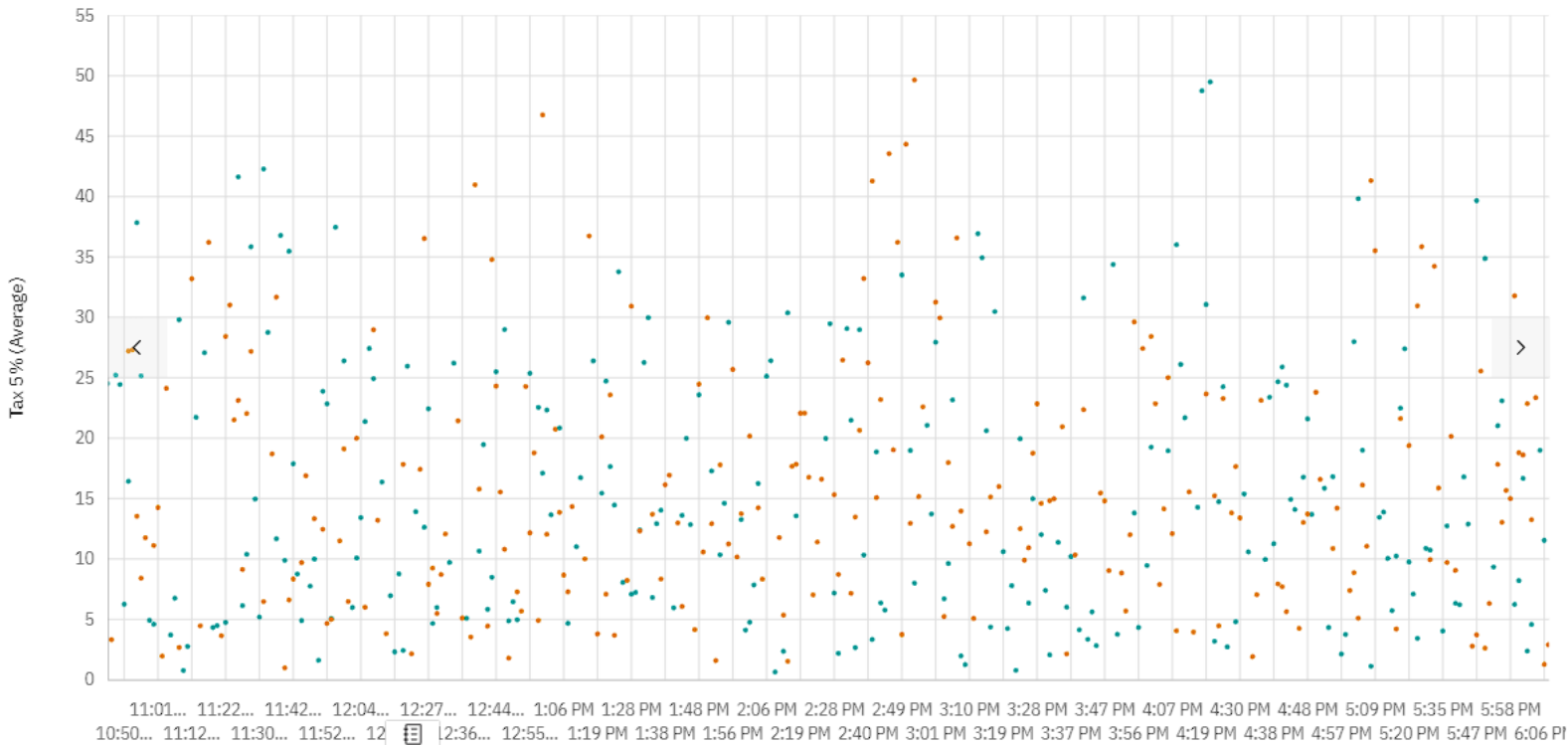
0:05.0

# 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).
- 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.
- 

Tax 5% by Time colored by Customer type

Customer type  
● Member ● Normal

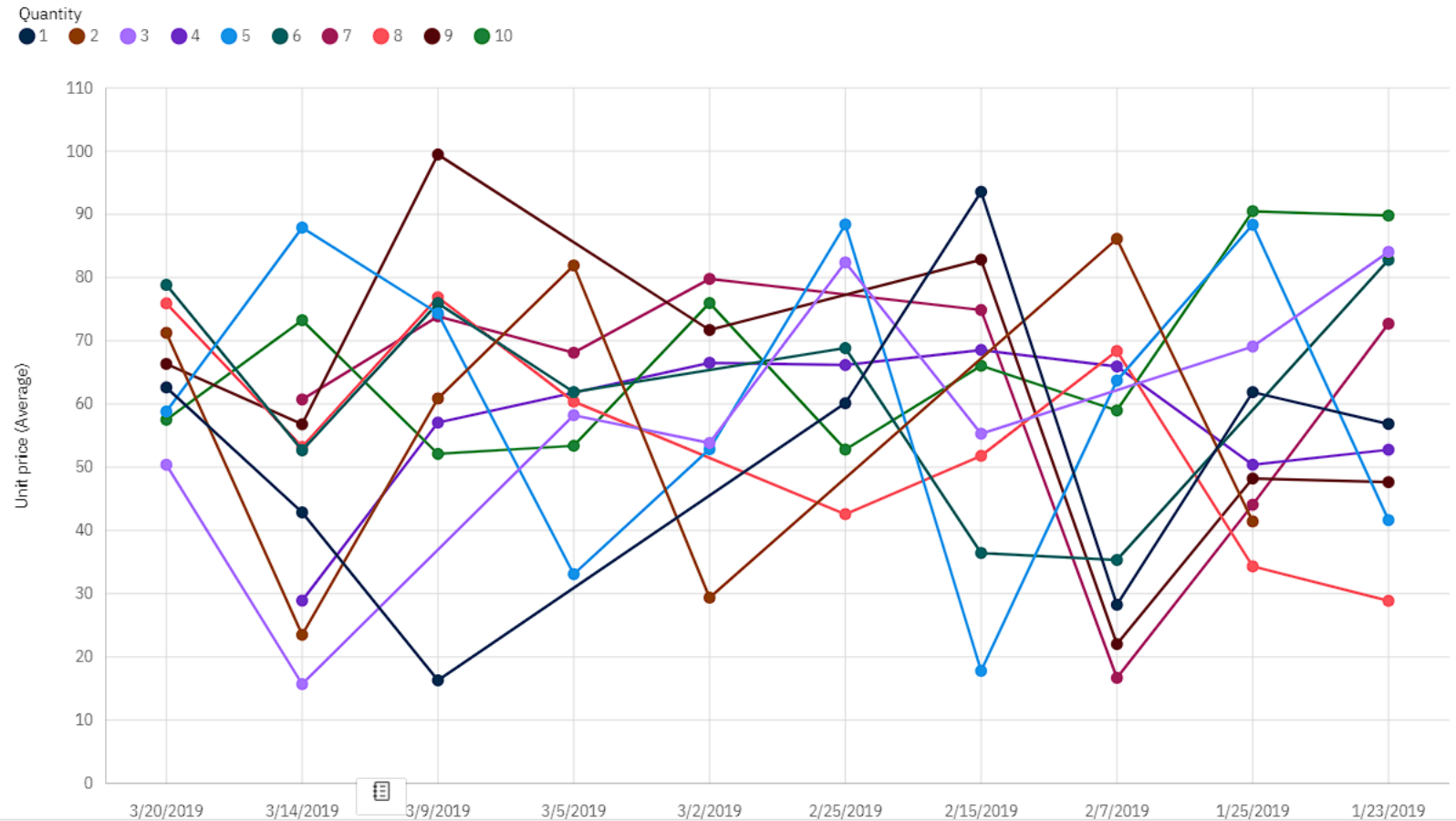




# DATE VS PRICE

- 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



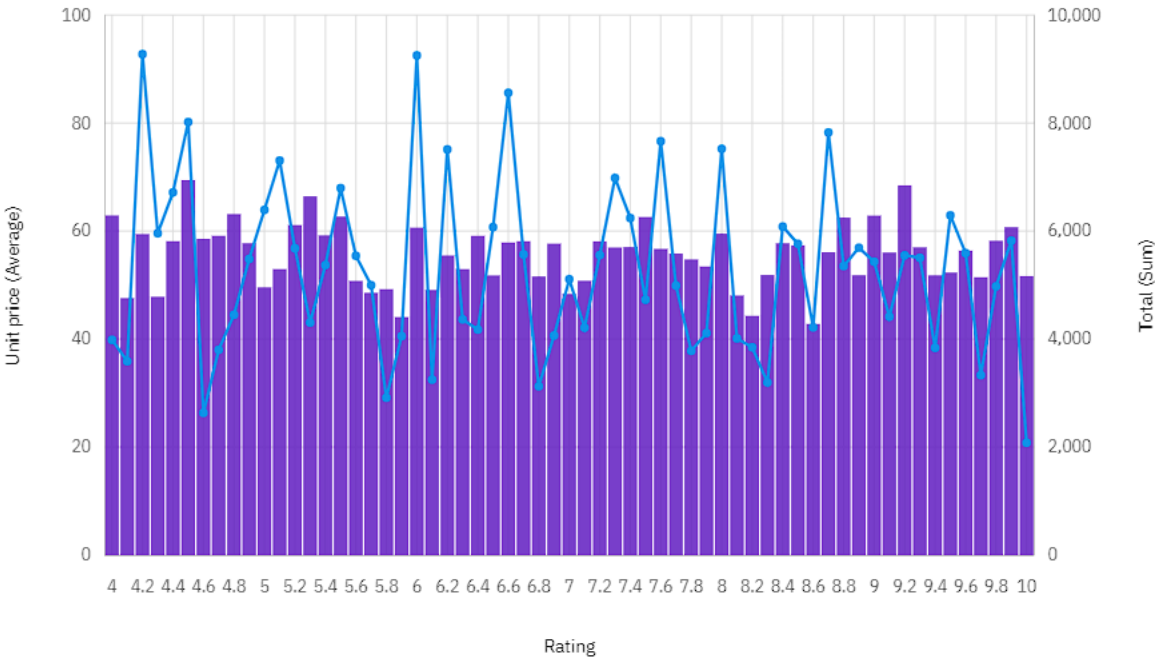
# Rating Vs Price

- 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

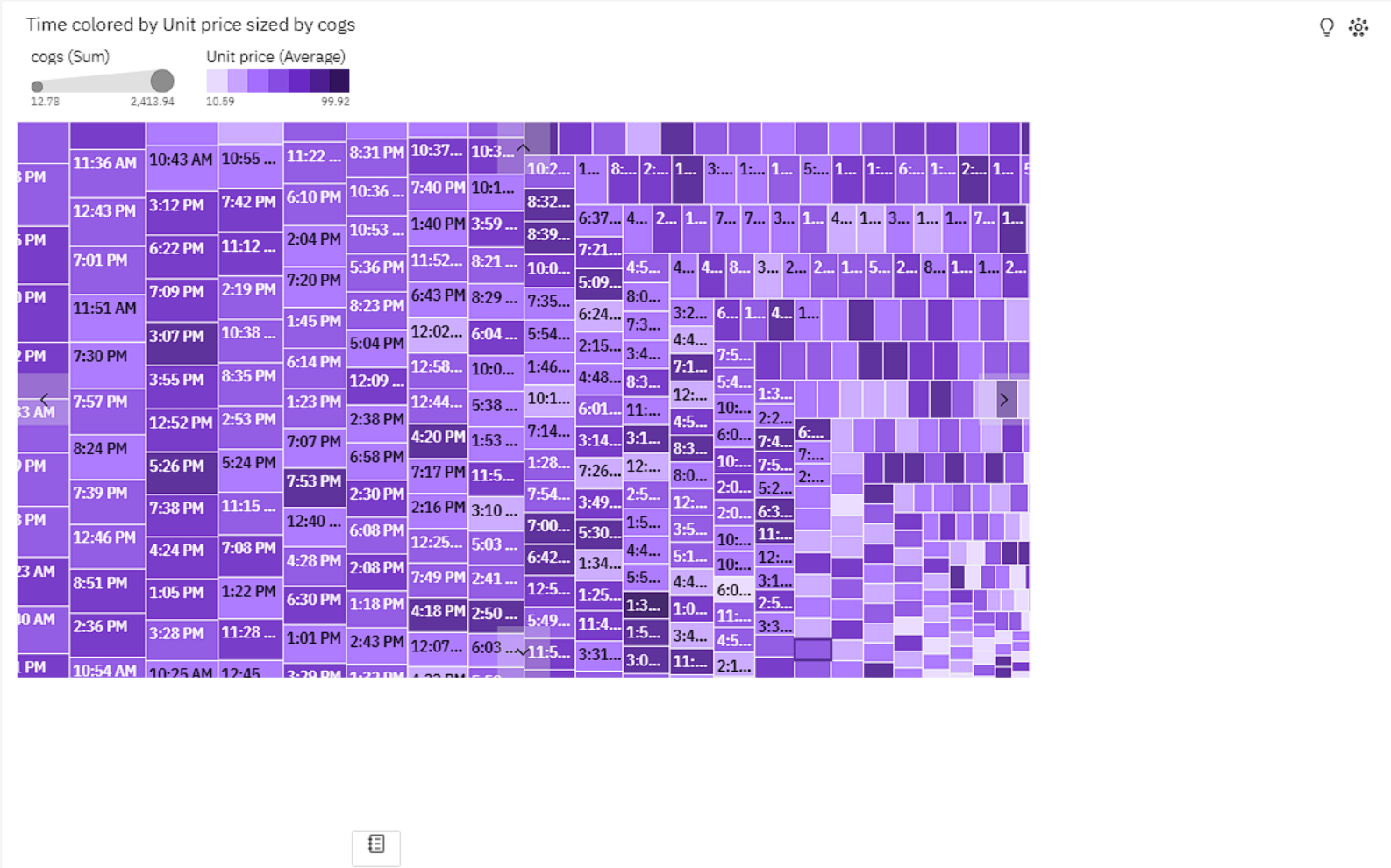
Column  
 ● Unit price (Average)

Line  
 ● Total (Sum)



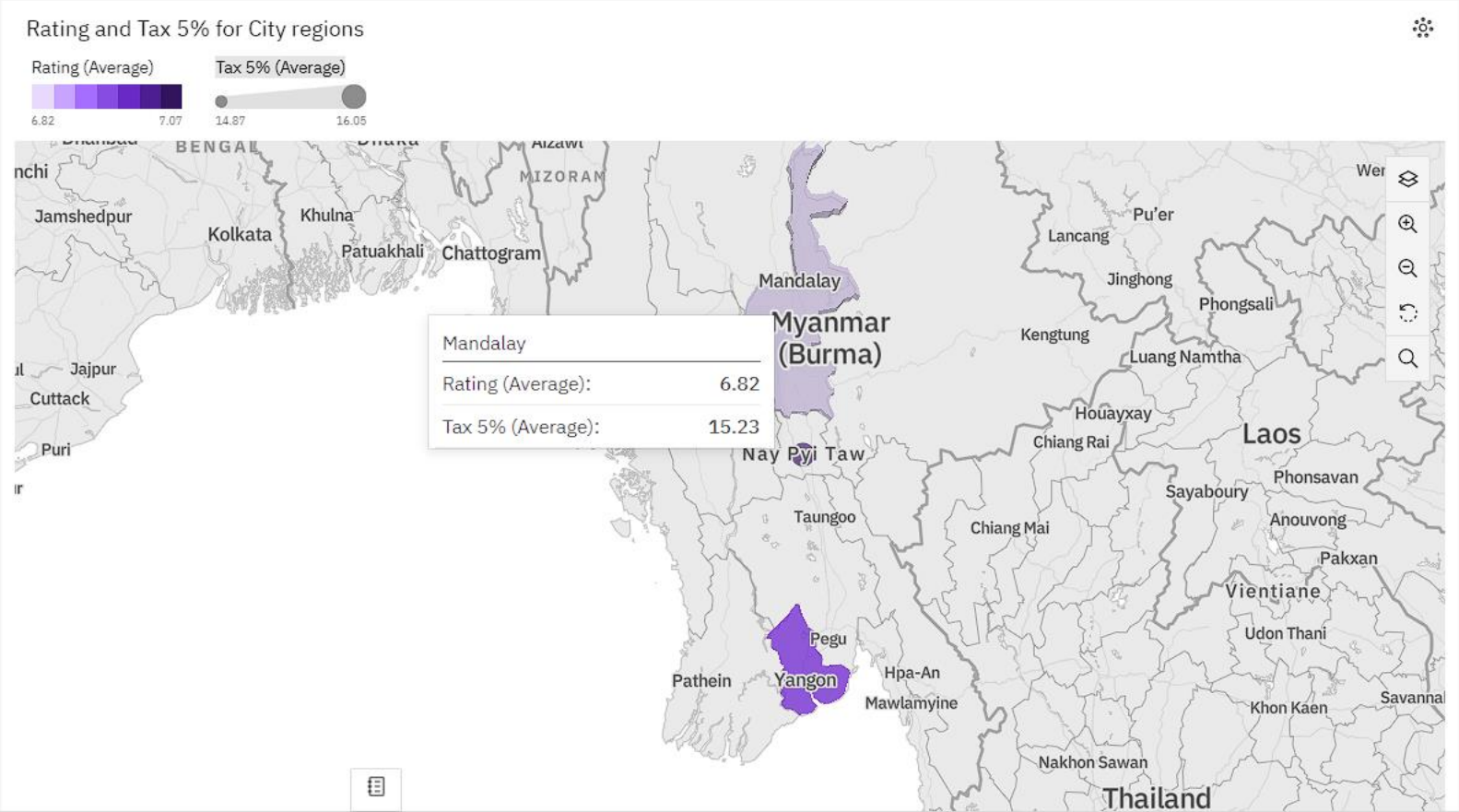
# Time Vs Unit Price

- 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.



# 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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