

NM ASSIGNMENT 1

Done by Roshini .S

Data Set Link: [Supermarket sales \(kaggle.com\)](#)

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.

Properties

Data module

Search

New data module

Navigation paths

supermark...heet1.csv

Row Id

Invoice ID

Branch

City

Customer type

Gender

Product line

Unit price

Quantity

Grid

Relationships

Custom tables

Preview data

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

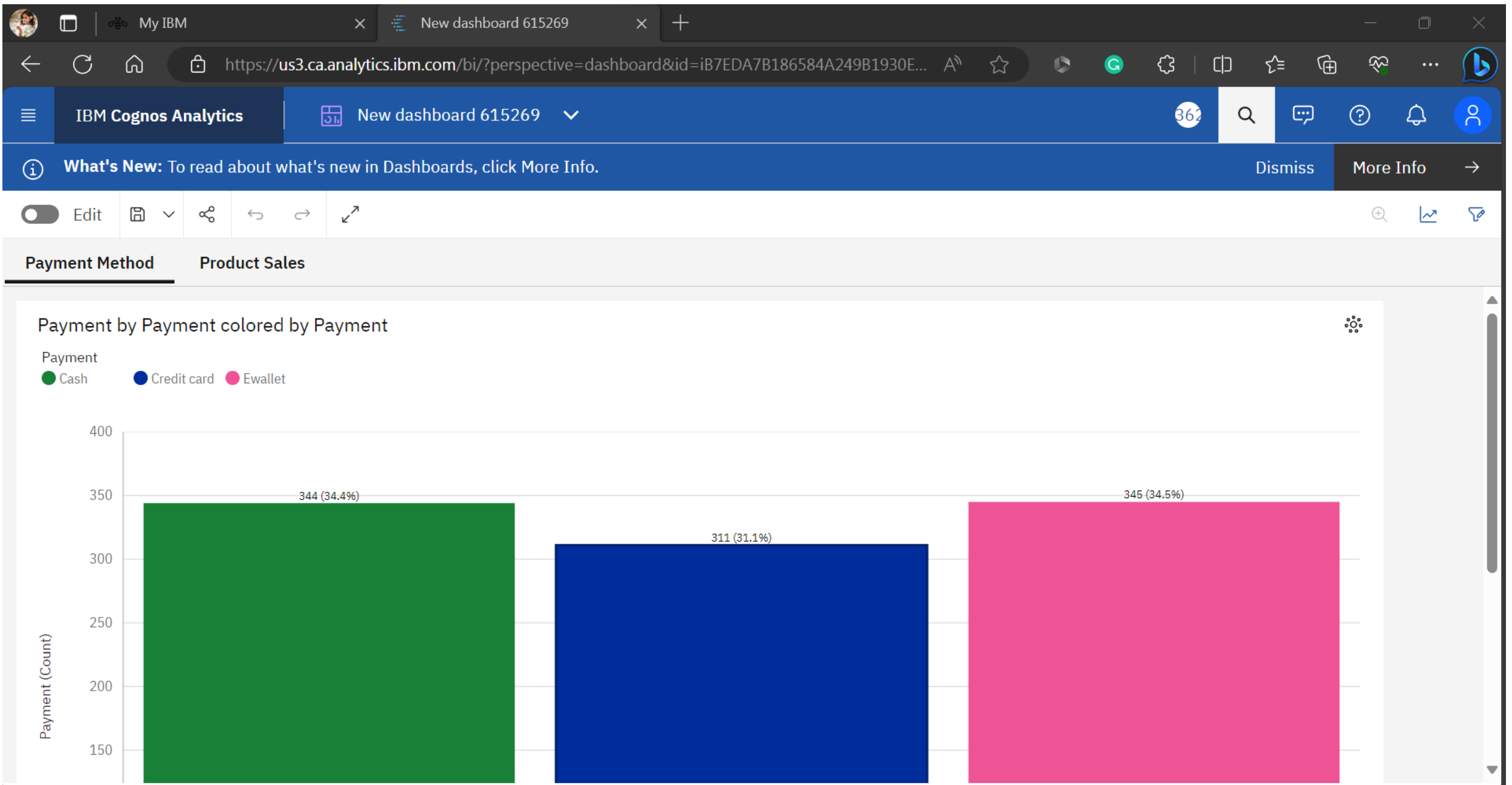
Step 2 : Using data module , create more explorations and pin it.

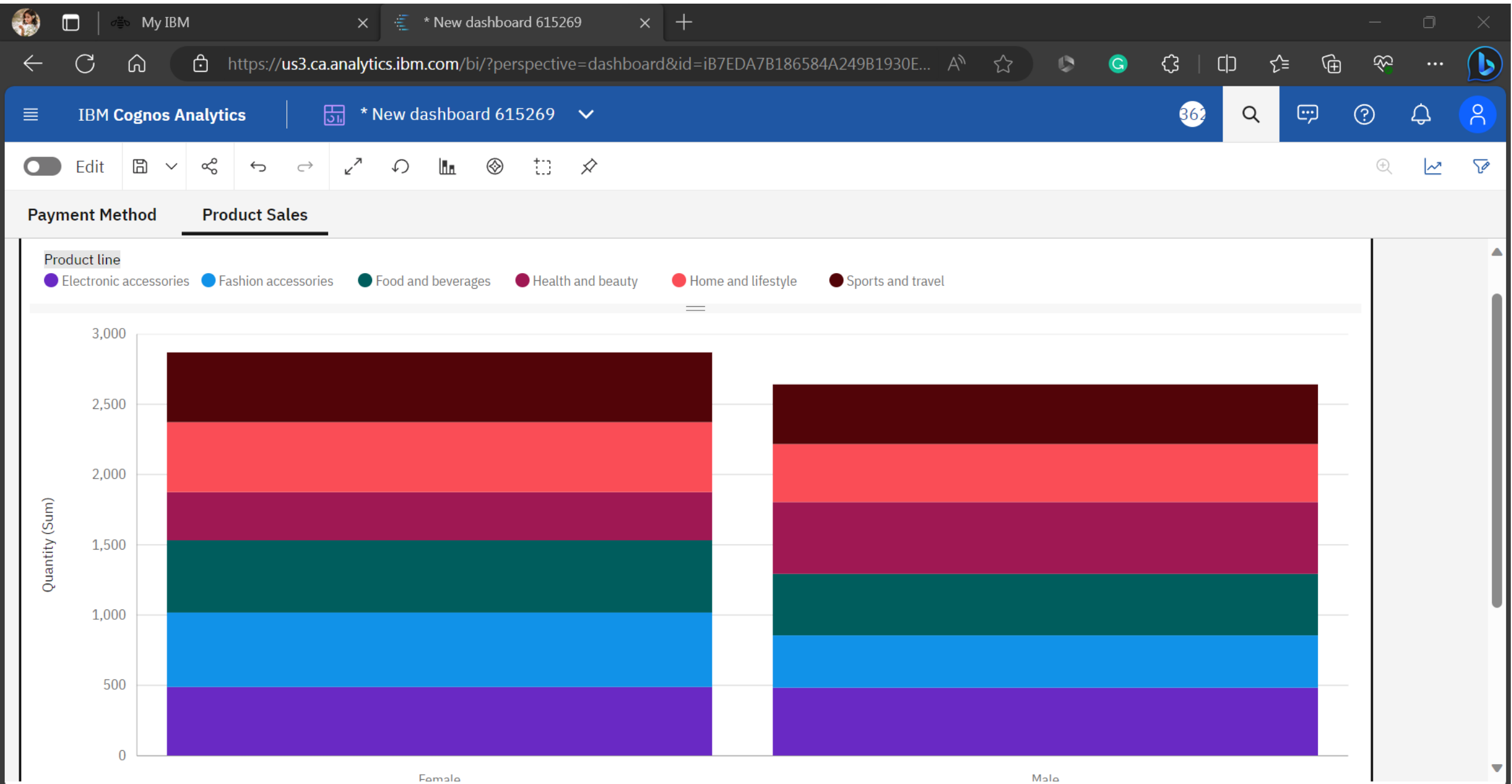
The screenshot displays the IBM Cognos Analytics interface. The main visualization is a bar chart titled "Payment by Payment colored by Payment". The chart shows the count of payments for three categories: Cash, Credit card, and Ewallet. The Y-axis is labeled "Payment (Count)" and ranges from 0 to 400. The X-axis is labeled "Payment". The legend indicates that Cash is represented by a purple bar, Credit card by a blue bar, and Ewallet by a green bar. The data values are displayed above each bar: Cash (344, 34.4%), Credit card (311, 31.1%), and Ewallet (345, 34.5%).

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

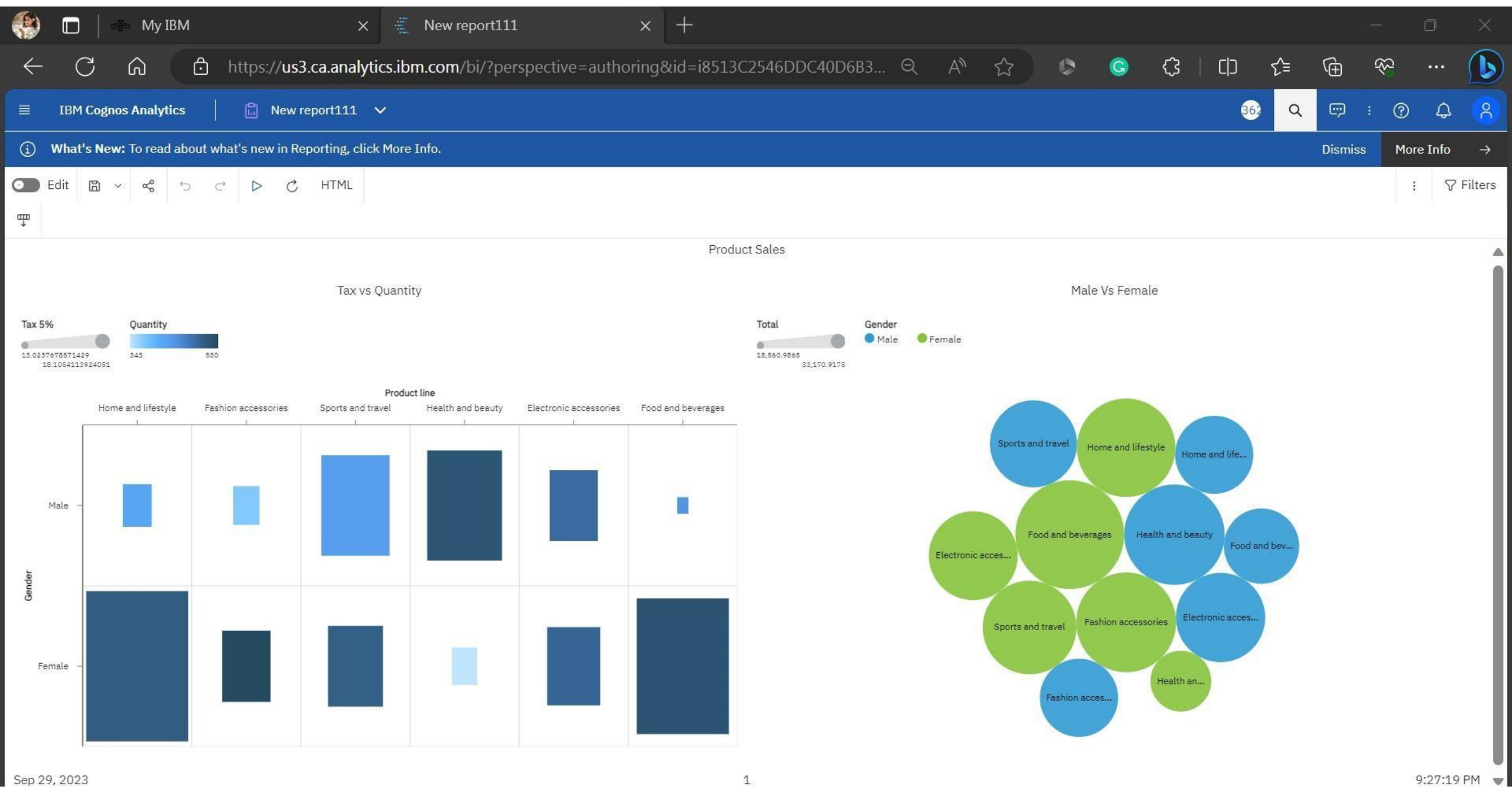
Details: The total number of results for **Payment**, across all **payments**, is a thousand. Ewallet (34.5 %) and Cash (34.4 %) are the most frequently occurring categories of **Payment** with a combined count of 689 items with **Payment** values (68.9 % of the total).

Step 3 : Using the pins, create Dashboard





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



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

Analytics Filters

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

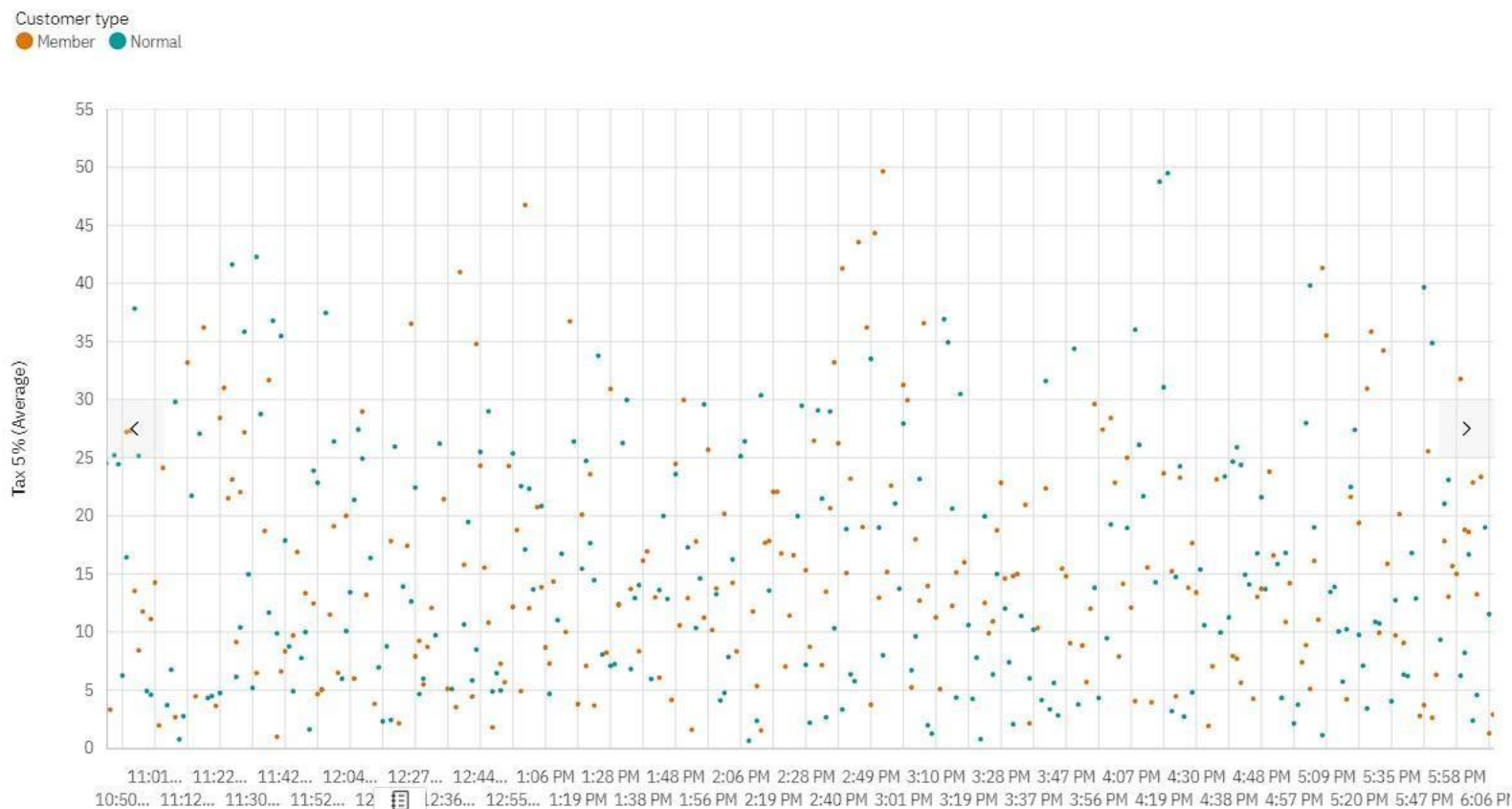
Tax 5% (Average)

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.
-

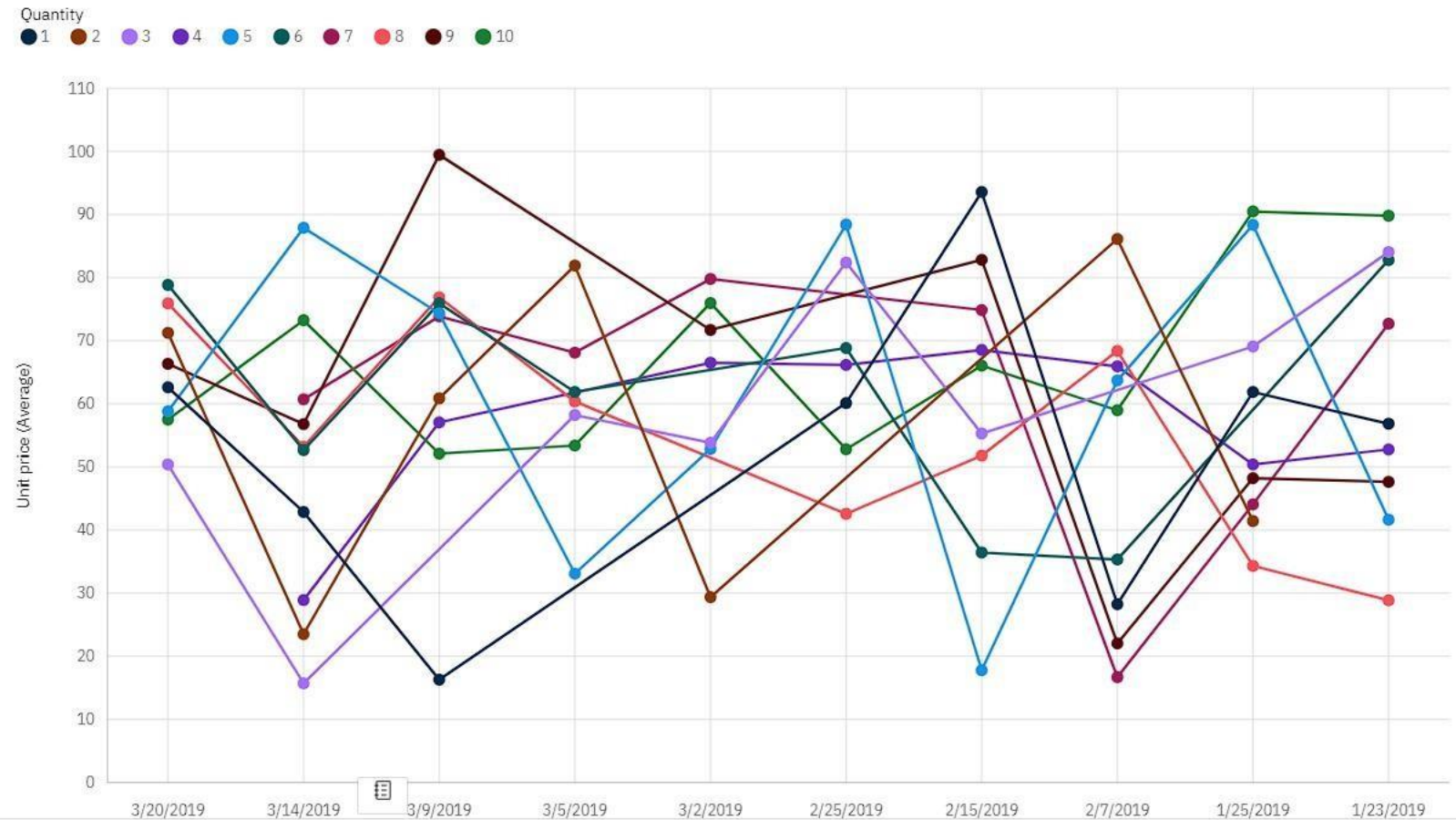
Tax 5% by Time colored by Customer type



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.

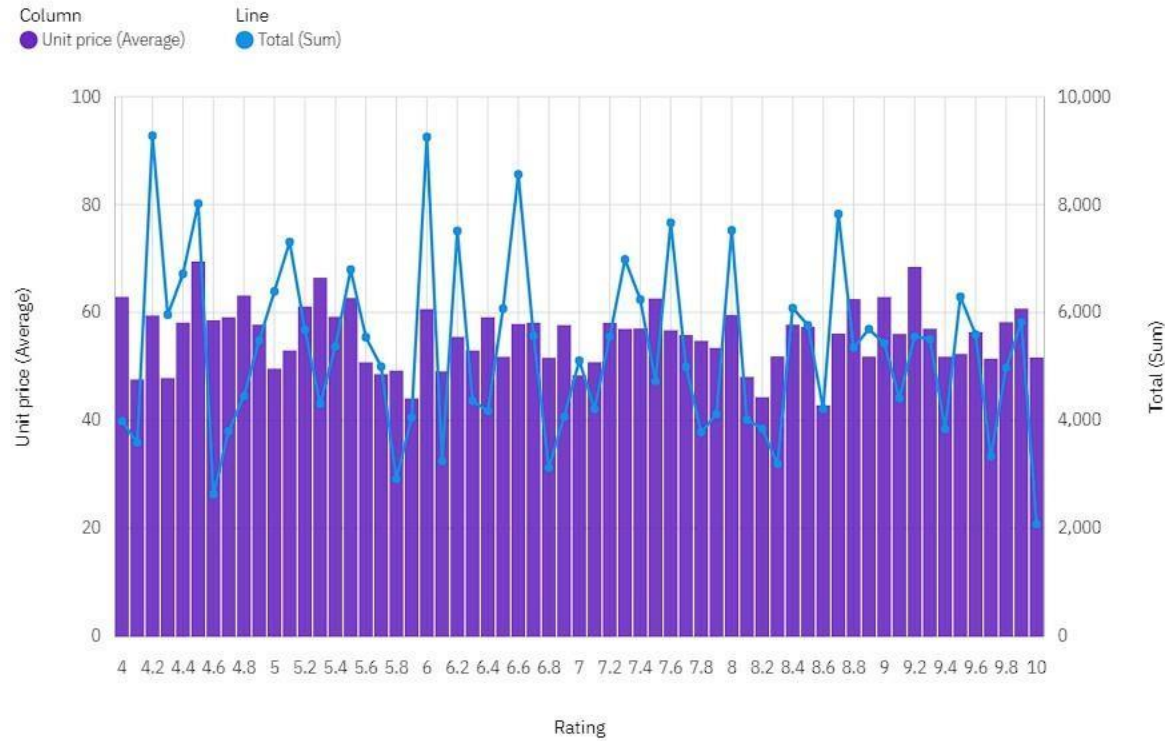
Unit price by Date colored by Quantity



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



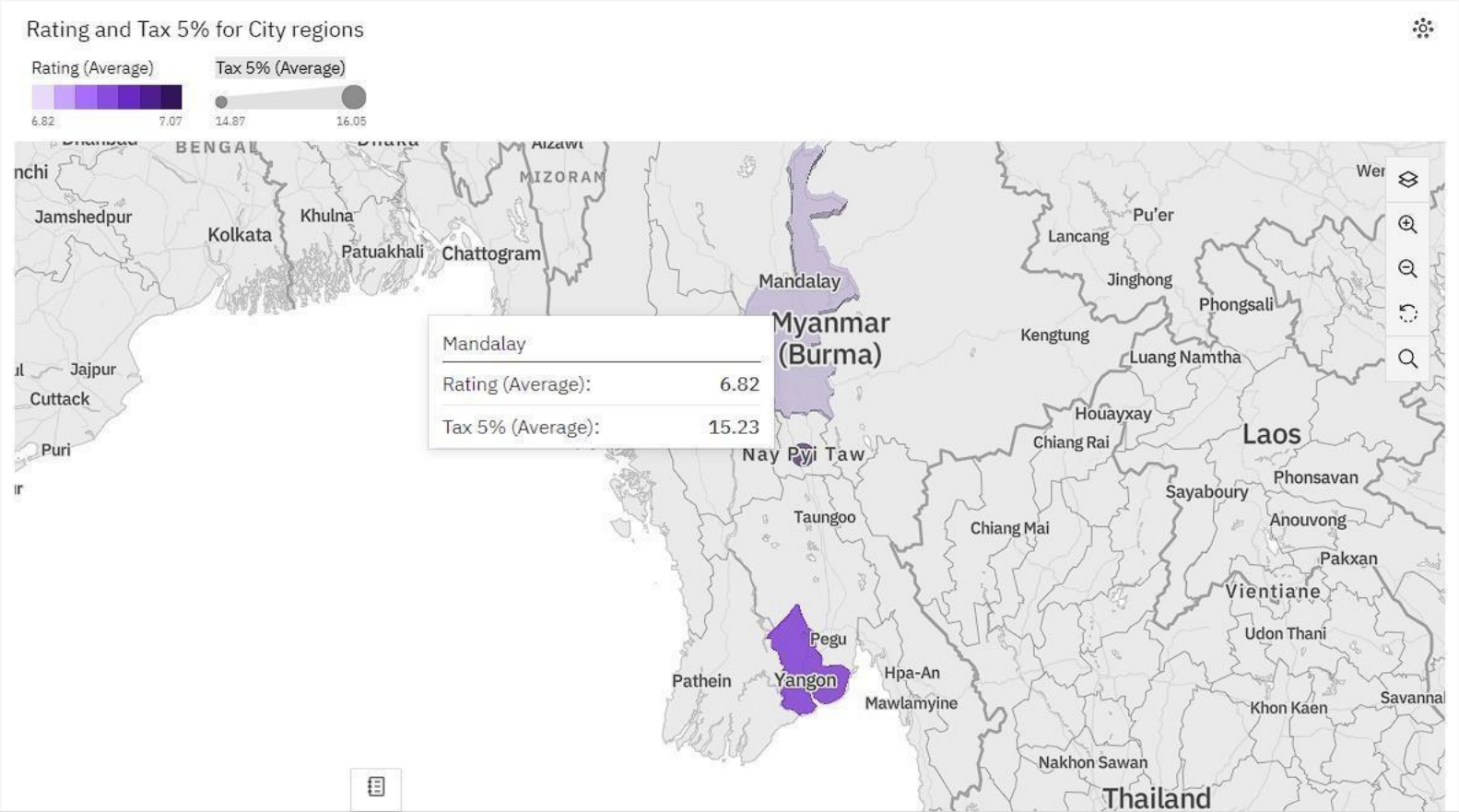
Time Vs Unit Price

- 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.
-

