DATA ANALYTICS ASSIGNMENT-1

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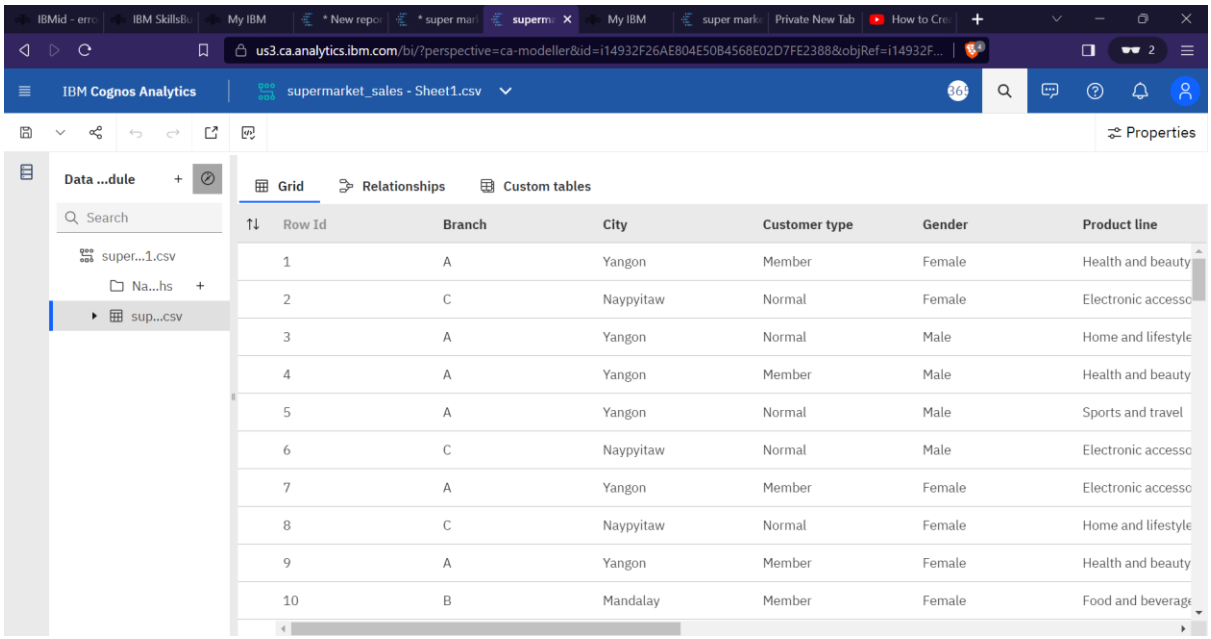
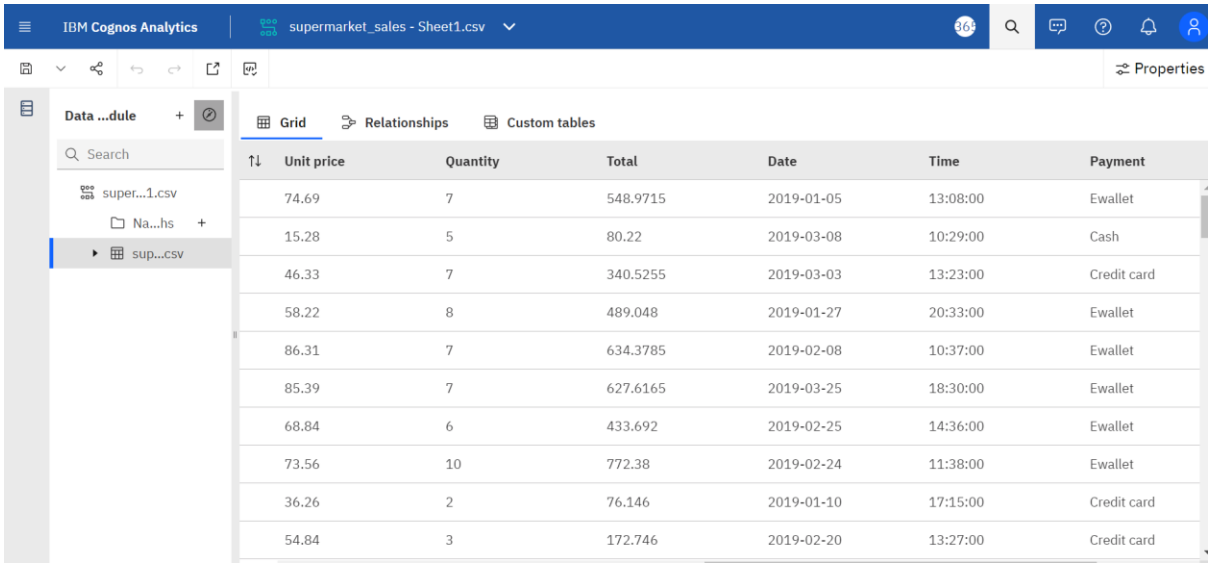
Challenge:
Upload the dataset to Cognos Analytics, delete the unnecessary columns, create a data
module, explore and visualize the dataset

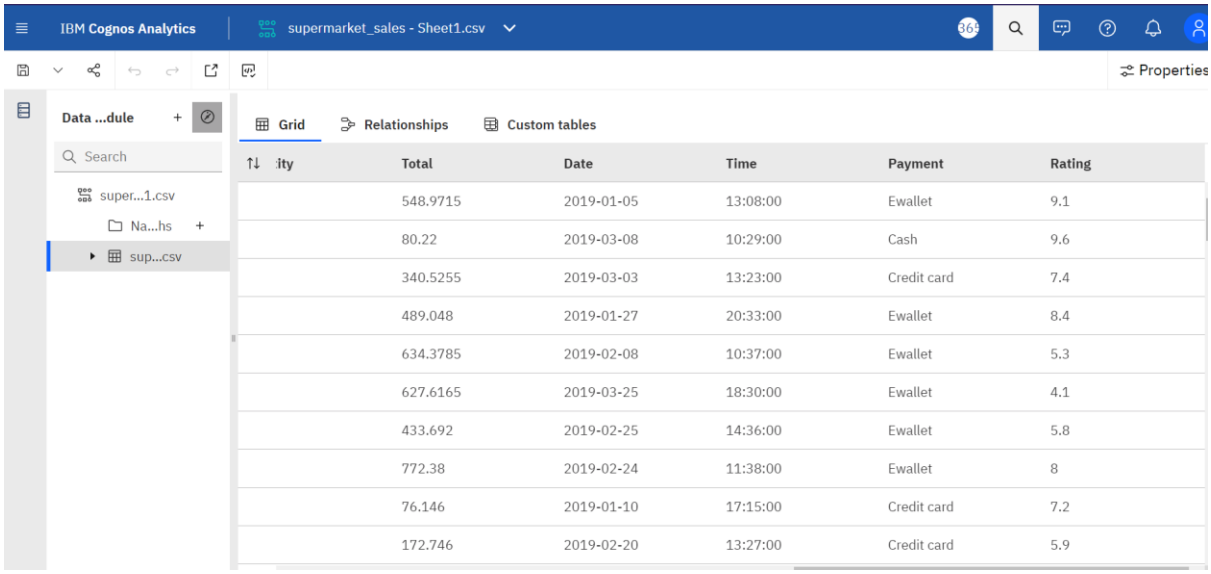
SUPERMARKET DATA MODULE:



Row Id	Branch	City	Customer type	Gender	Product line
1	A	Yangon	Member	Female	Health and beauty
2	C	Naypyitaw	Normal	Female	Electronic accesso
3	A	Yangon	Normal	Male	Home and lifestyle
4	A	Yangon	Member	Male	Health and beauty
5	A	Yangon	Normal	Male	Sports and travel
6	C	Naypyitaw	Normal	Male	Electronic accesso
7	A	Yangon	Member	Female	Electronic accesso
8	C	Naypyitaw	Normal	Female	Home and lifestyle
9	A	Yangon	Member	Female	Health and beauty
10	B	Mandalay	Member	Female	Food and beverage

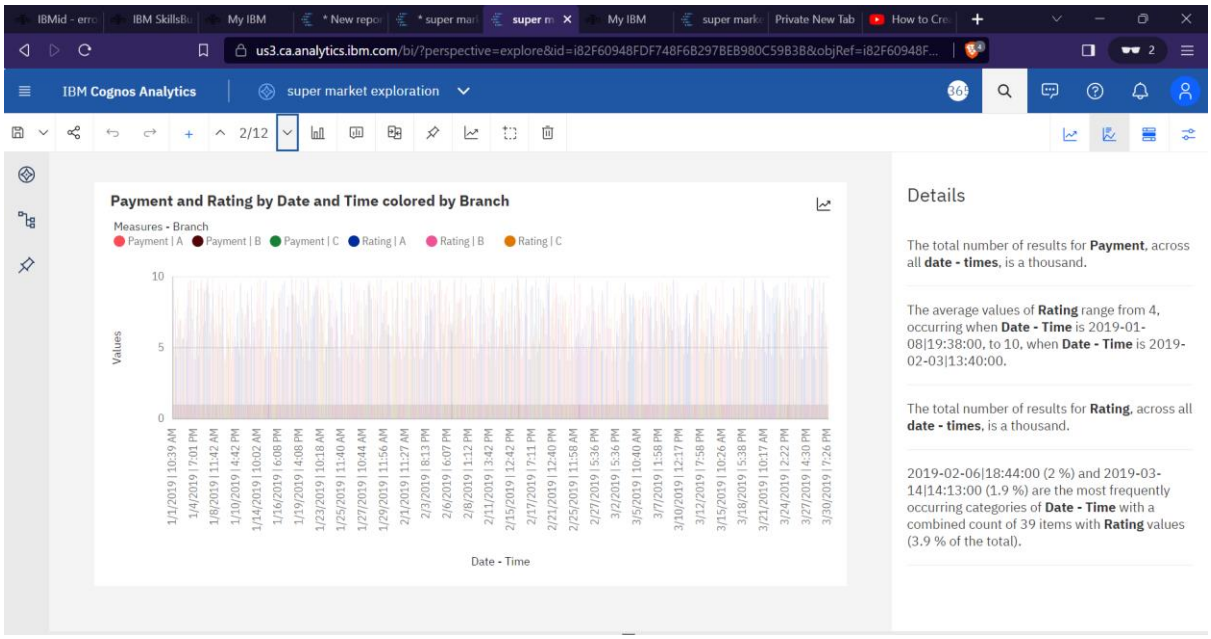


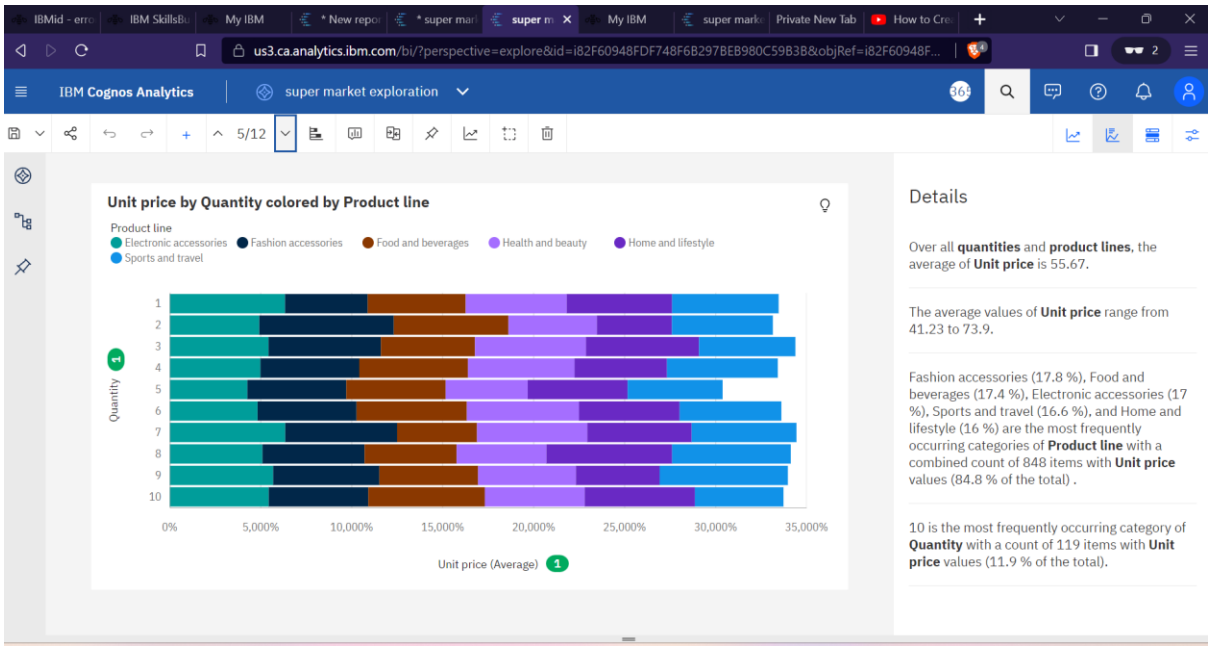
Unit price	Quantity	Total	Date	Time	Payment
74.69	7	548.9715	2019-01-05	13:08:00	Ewallet
15.28	5	80.22	2019-03-08	10:29:00	Cash
46.33	7	340.5255	2019-03-03	13:23:00	Credit card
58.22	8	489.048	2019-01-27	20:33:00	Ewallet
86.31	7	634.3785	2019-02-08	10:37:00	Ewallet
85.39	7	627.6165	2019-03-25	18:30:00	Ewallet
68.84	6	433.692	2019-02-25	14:36:00	Ewallet
73.56	10	772.38	2019-02-24	11:38:00	Ewallet
36.26	2	76.146	2019-01-10	17:15:00	Credit card
54.84	3	172.746	2019-02-20	13:27:00	Credit card

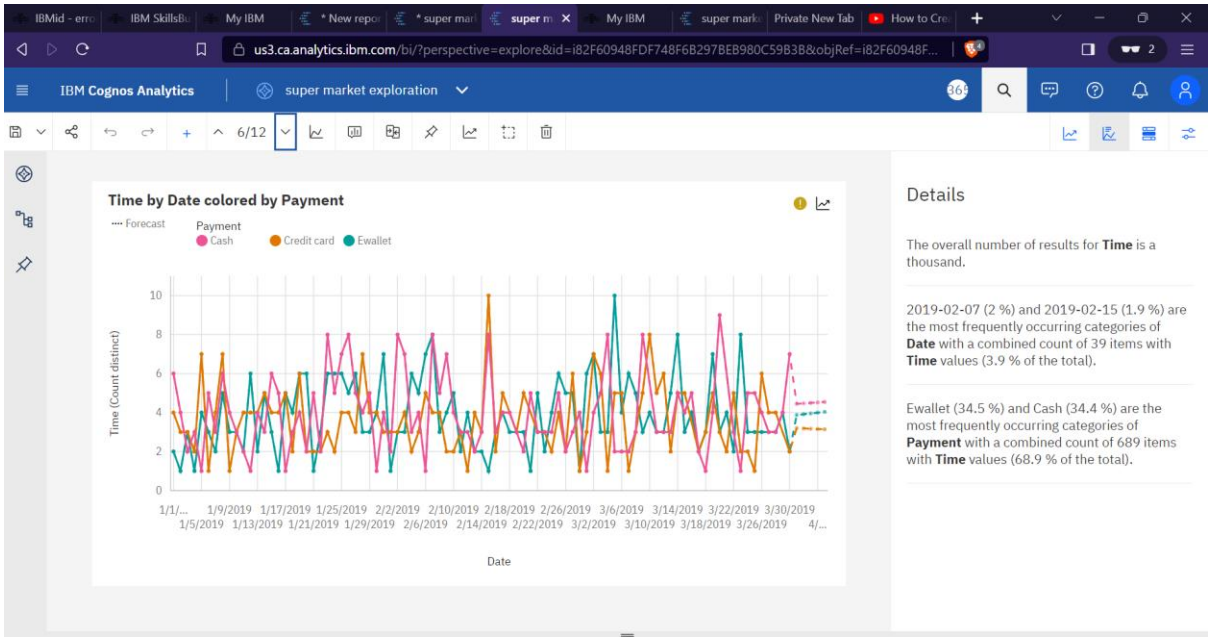


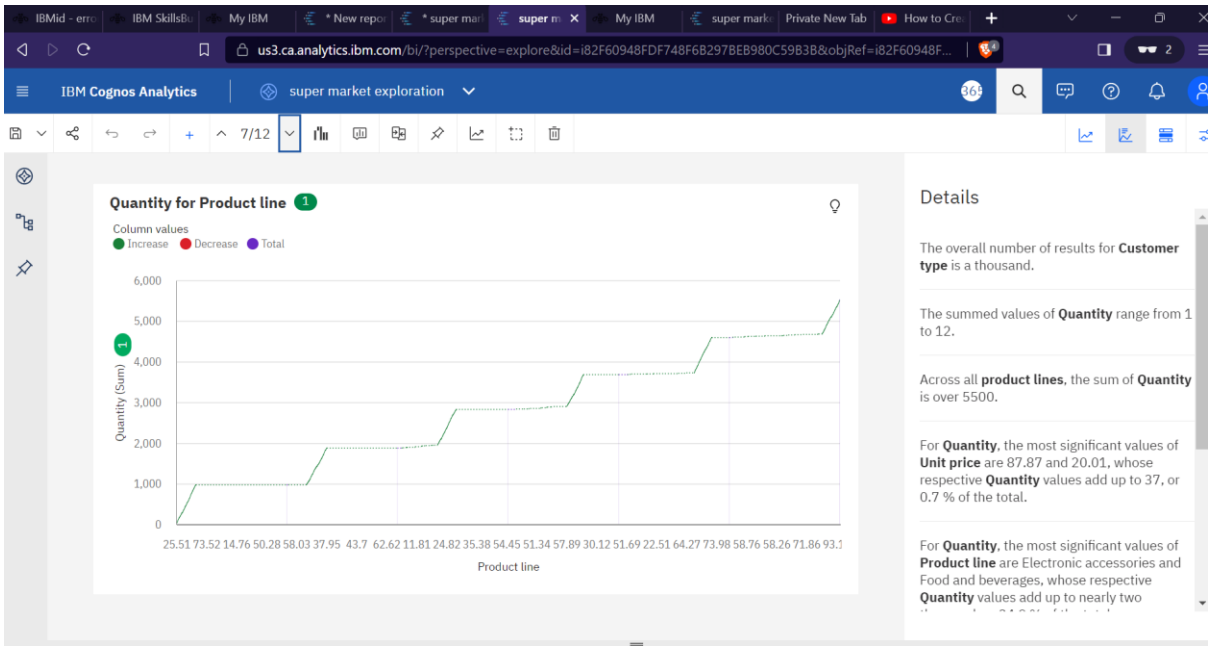
ity	Total	Date	Time	Payment	Rating
	548.9715	2019-01-05	13:08:00	Ewallet	9.1
	80.22	2019-03-08	10:29:00	Cash	9.6
	340.5255	2019-03-03	13:23:00	Credit card	7.4
	489.048	2019-01-27	20:33:00	Ewallet	8.4
	634.3785	2019-02-08	10:37:00	Ewallet	5.3
	627.6165	2019-03-25	18:30:00	Ewallet	4.1
	433.692	2019-02-25	14:36:00	Ewallet	5.8
	772.38	2019-02-24	11:38:00	Ewallet	8
	76.146	2019-01-10	17:15:00	Credit card	7.2
	172.746	2019-02-20	13:27:00	Credit card	5.9

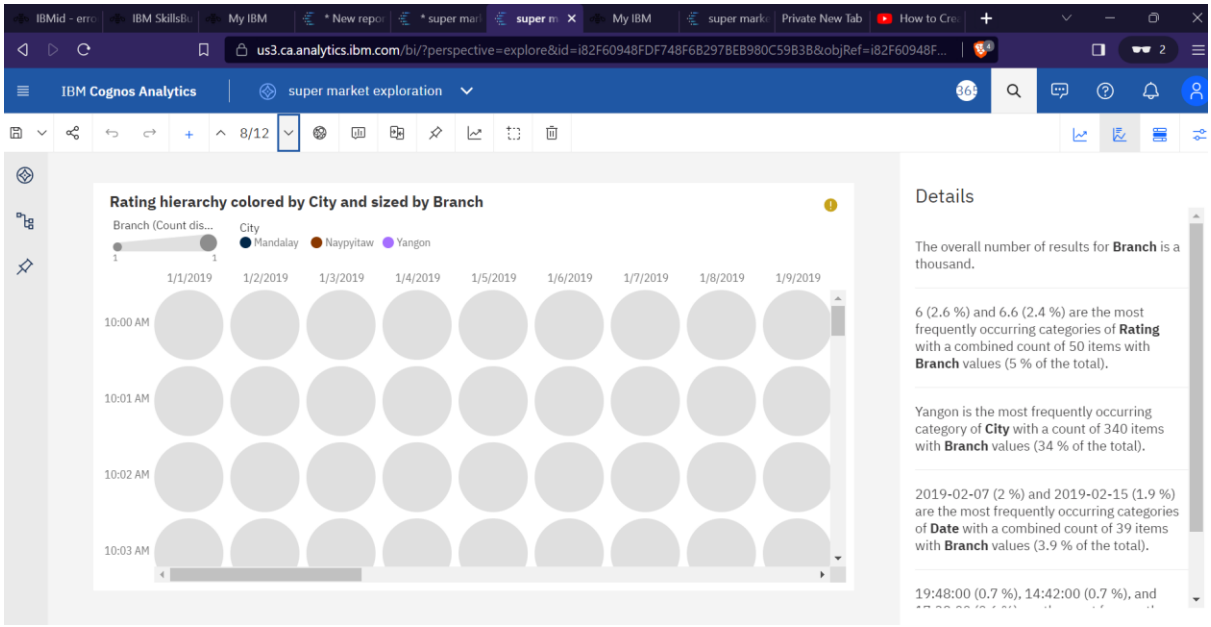
SUPERMARKET EXPOLORATION:

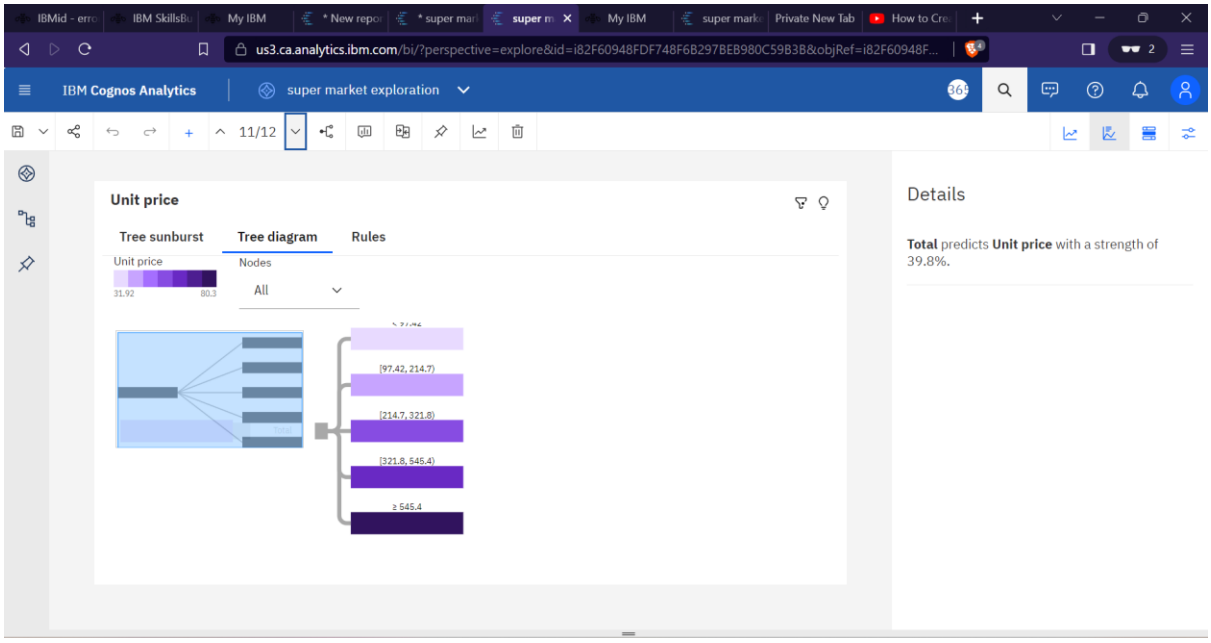




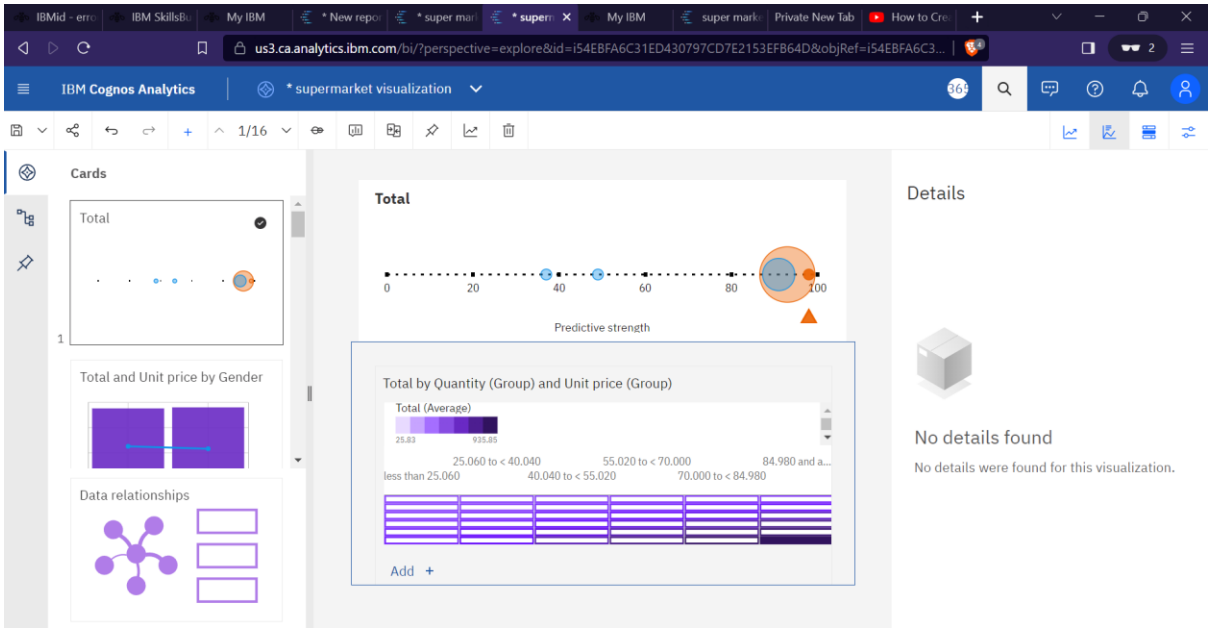

IBM Cognos Analytics
super market exploration
6/12
Time by Date colored by Payment
Forecast
Payment
Cash
Credit card
Ewallet
Time (Count distinct)
Date
Details
The overall number of results for Time is a thousand.
2019-02-07 (2 %) and 2019-02-15 (1.9 %) are the most frequently occurring categories of Date with a combined count of 39 items with Time values (3.9 % of the total).
Ewallet (34.5 %) and Cash (34.4 %) are the most frequently occurring categories of Payment with a combined count of 689 items with Time values (68.9 % of the total).

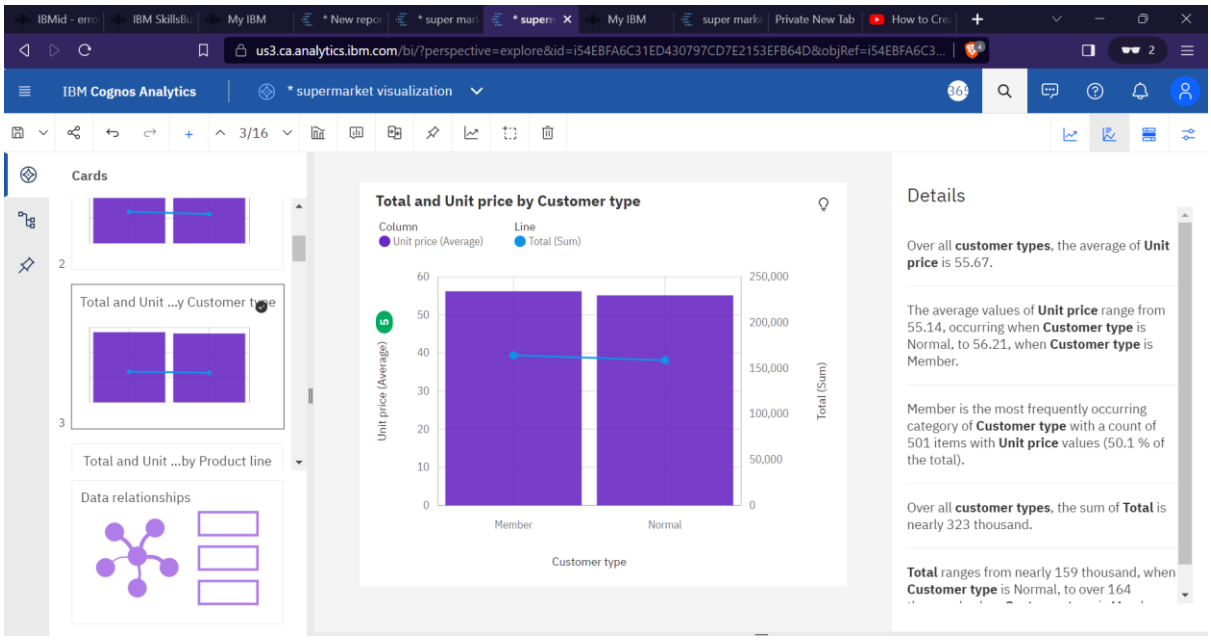

IBM Cognos Analytics
super market exploration
7/12
Quantity for Product line
Column values
Increase
Decrease
Total
Quantity (Sum)
Product line
Details
The overall number of results for Customer type is a thousand.
The summed values of Quantity range from 1 to 12.
Across all product lines, the sum of Quantity is over 5500.
For Quantity, the most significant values of Unit price are 87.87 and 20.01, whose respective Quantity values add up to 37, or 0.7 % of the total.
For Quantity, the most significant values of Product line are Electronic accessories and Food and beverages, whose respective Quantity values add up to nearly two

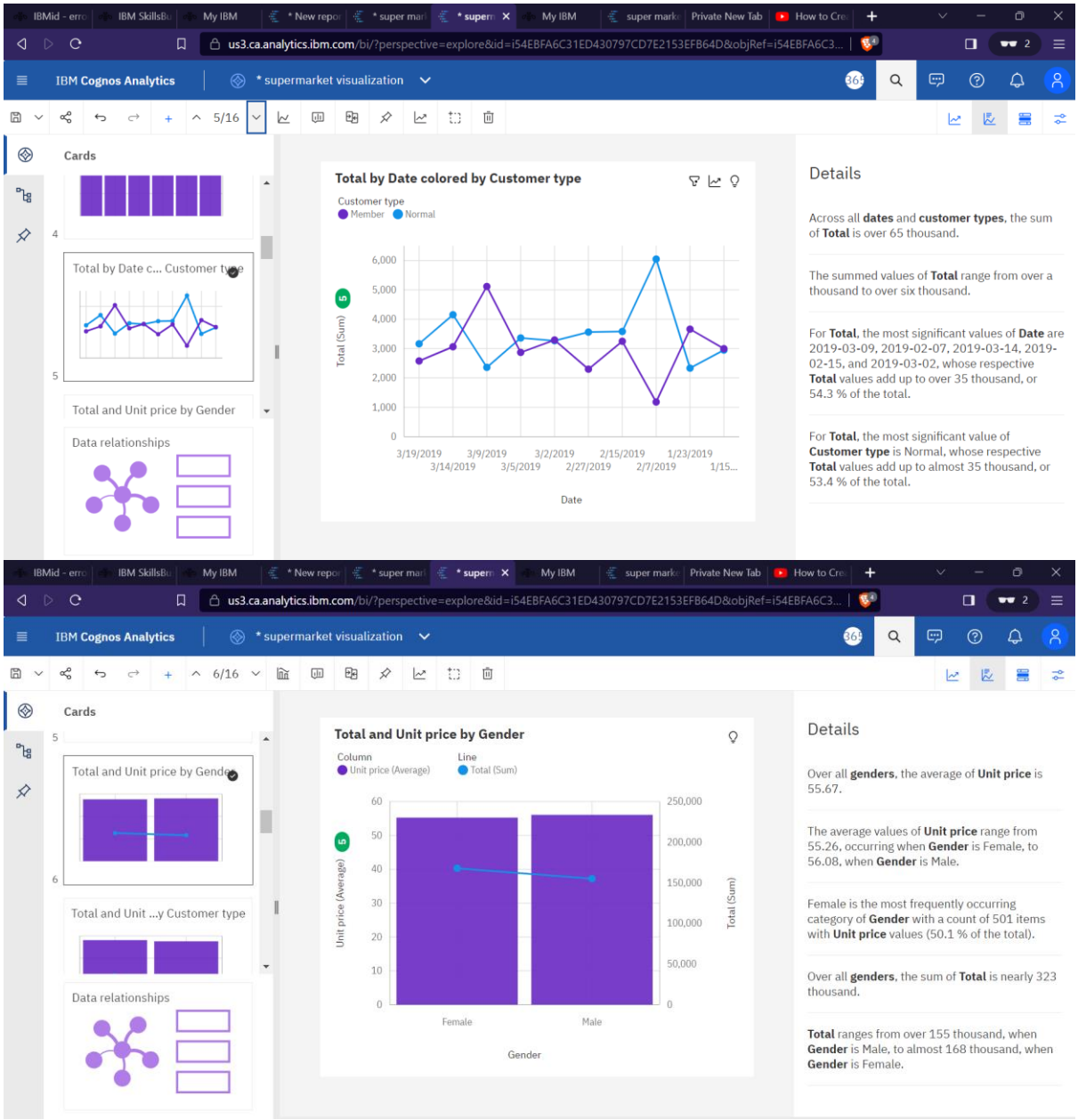

IBM Cognos Analytics
super market exploration
8/12
Rating hierarchy colored by City and sized by Branch
Branch (Count dis...
City
Mandalay
Naypyitaw
Yangon
1/1/2019
1/2/2019
1/3/2019
1/4/2019
1/5/2019
1/6/2019
1/7/2019
1/8/2019
1/9/2019
10:00 AM
10:01 AM
10:02 AM
10:03 AM
Details
The overall number of results for Branch is a thousand.
6 (2.6 %) and 6.6 (2.4 %) are the most frequently occurring categories of Rating with a combined count of 50 items with Branch values (5 % of the total).
Yangon is the most frequently occurring category of City with a count of 340 items with Branch values (34 % of the total).
2019-02-07 (2 %) and 2019-02-15 (1.9 %) are the most frequently occurring categories of Date with a combined count of 39 items with Branch values (3.9 % of the total).
19:48:00 (0.7 %), 14:42:00 (0.7 %), and

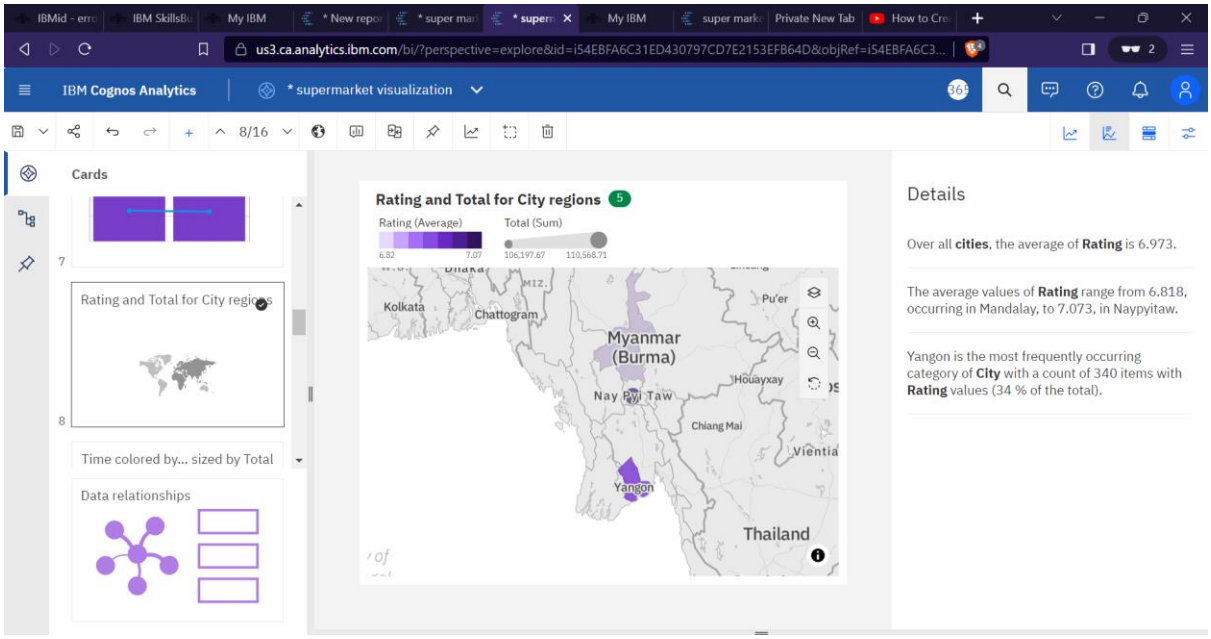

IBM Cognos Analytics
super market exploration
11/12
Unit price
Tree sunburst
Tree diagram
Rules
Unit price
31.92
80.3
Nodes
All
[97.42, 214.7)
[214.7, 321.8)
[321.8, 545.4)
≥ 545.4
Details
Total predicts Unit price with a strength of 39.8%.

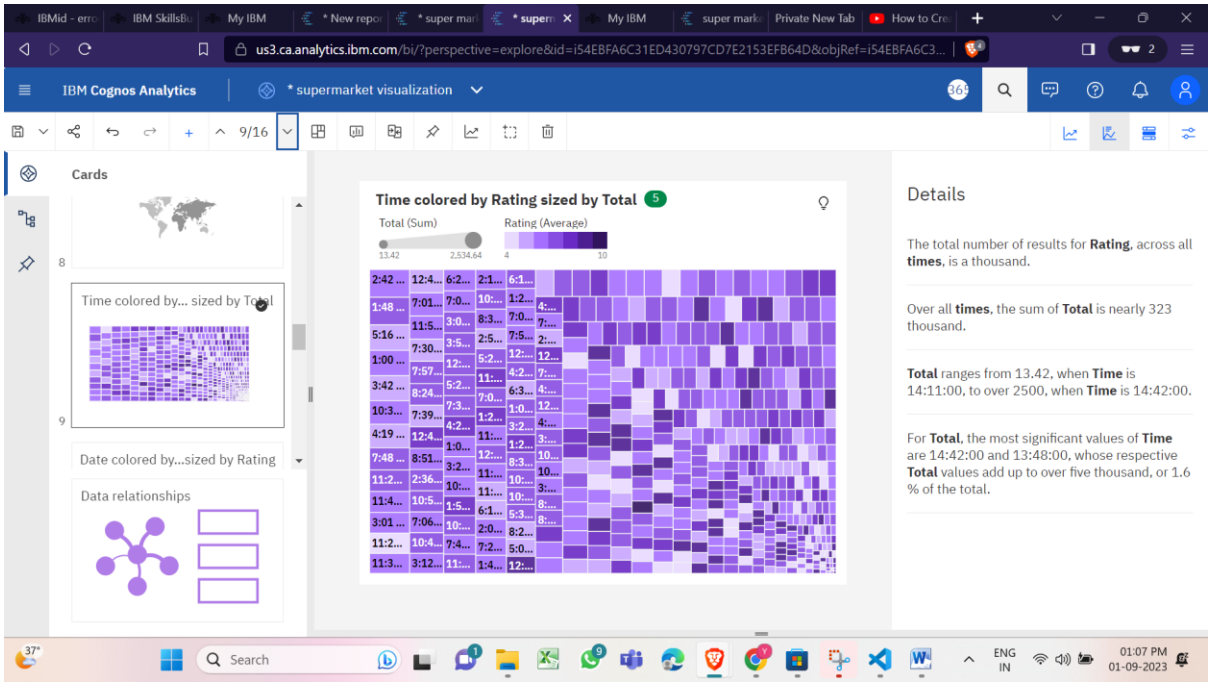
SUPERMARKET VISUALIZATION:

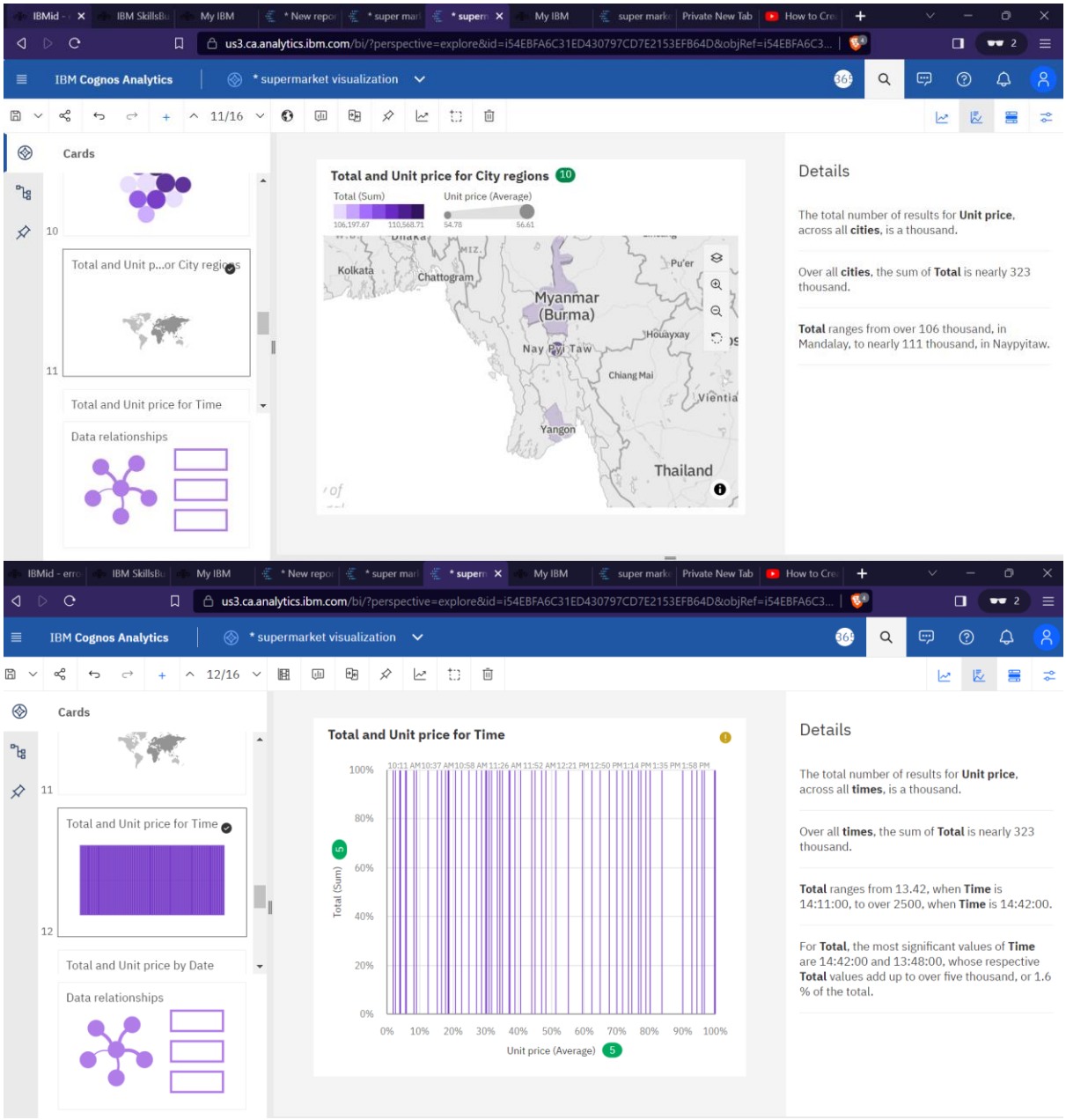


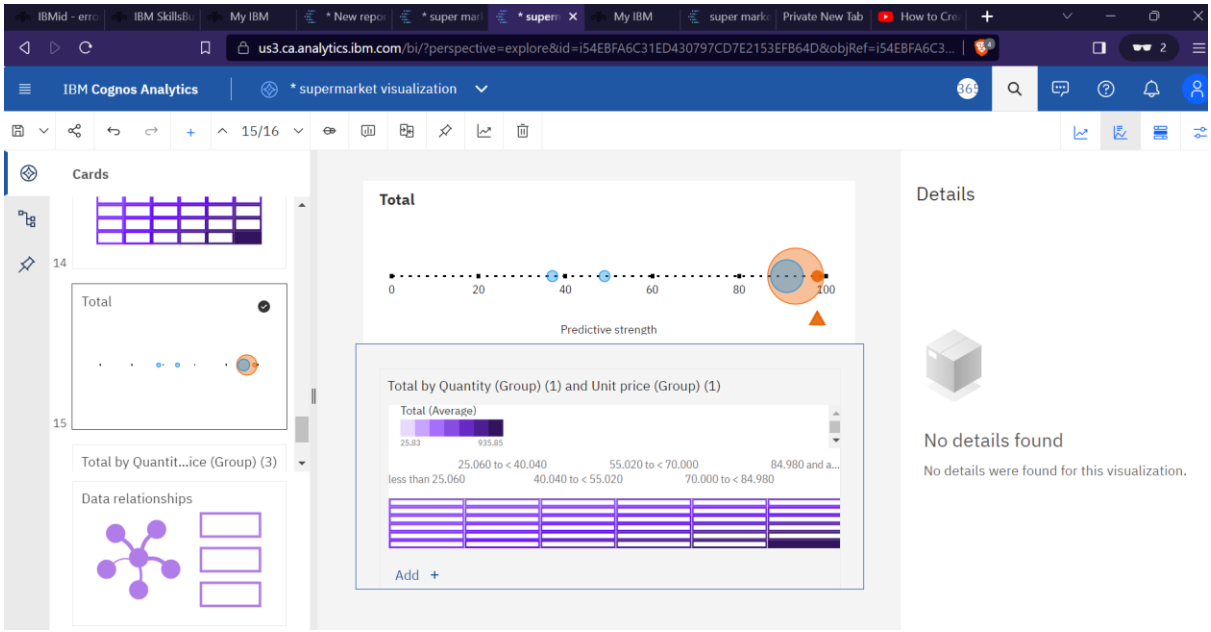



IBM Cognos Analytics
* supermarket visualization
5/16
Cards
Total by Date c... Customer type
Total and Unit price by Gender
Data relationships
Total by Date colored by Customer type
Customer type
Member
Normal
Total (Sum)
Date
Details
Across all dates and customer types, the sum of Total is over 65 thousand.
The summed values of Total range from over a thousand to over six thousand.
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.
For Total, the most significant value of Customer type is Normal, whose respective Total values add up to almost 35 thousand, or 53.4 % of the total.
IBM Cognos Analytics
* supermarket visualization
6/16
Cards
Total and Unit price by Gender
Total and Unit ...y Customer type
Data relationships
Total and Unit price by Gender
Column
Unit price (Average)
Line
Total (Sum)
Unit price (Average)
Total (Sum)
Female
Male
Gender
Details
Over all genders, the average of Unit price is 55.67.
The average values of Unit price range from 55.26, occurring when Gender is Female, to 56.08, when Gender is Male.
Female is the most frequently occurring category of Gender with a count of 501 items with Unit price values (50.1 % of the total).
Over all genders, the sum of Total is nearly 323 thousand.
Total ranges from over 155 thousand, when Gender is Male, to almost 168 thousand, when Gender is Female.

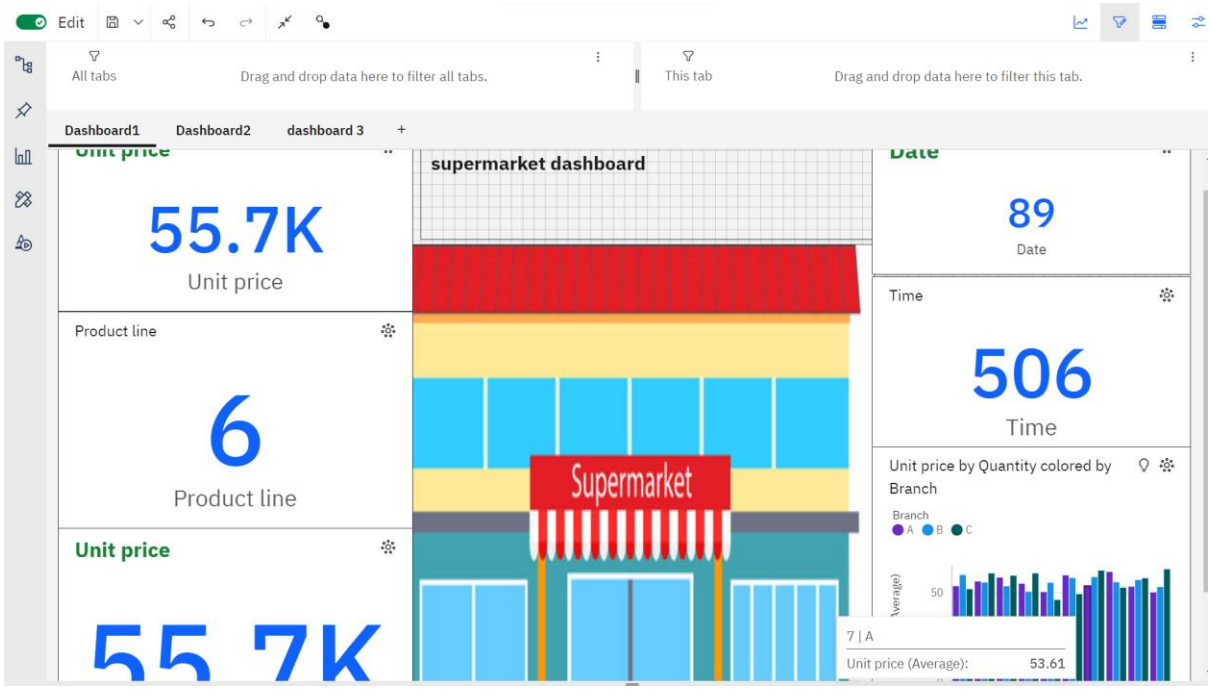

IBM Cognos Analytics
* supermarket visualization
us3.ca.analytics.ibm.com/bi/?perspective=explore&id=i54EBFA6C31ED430797CD7E2153EFB64D&objRef=i54EBFA6C3...
Cards
Rating and Total for City regions
Time colored by... sized by Total
Data relationships
Rating and Total for City regions 5
Rating (Average)
6.82
7.07
Total (Sum)
106,197.67
110,568.71
Kolkata
Chattogram
Myanmar (Burma)
Pu'er
Houayxay
Nay Pyi Taw
Chiang Mai
Vientia
Yangon
Thailand
Details
Over all cities, the average of Rating is 6.973.
The average values of Rating range from 6.818, occurring in Mandalay, to 7.073, in Naypyitaw.
Yangon is the most frequently occurring category of City with a count of 340 items with Rating values (34 % of the total).

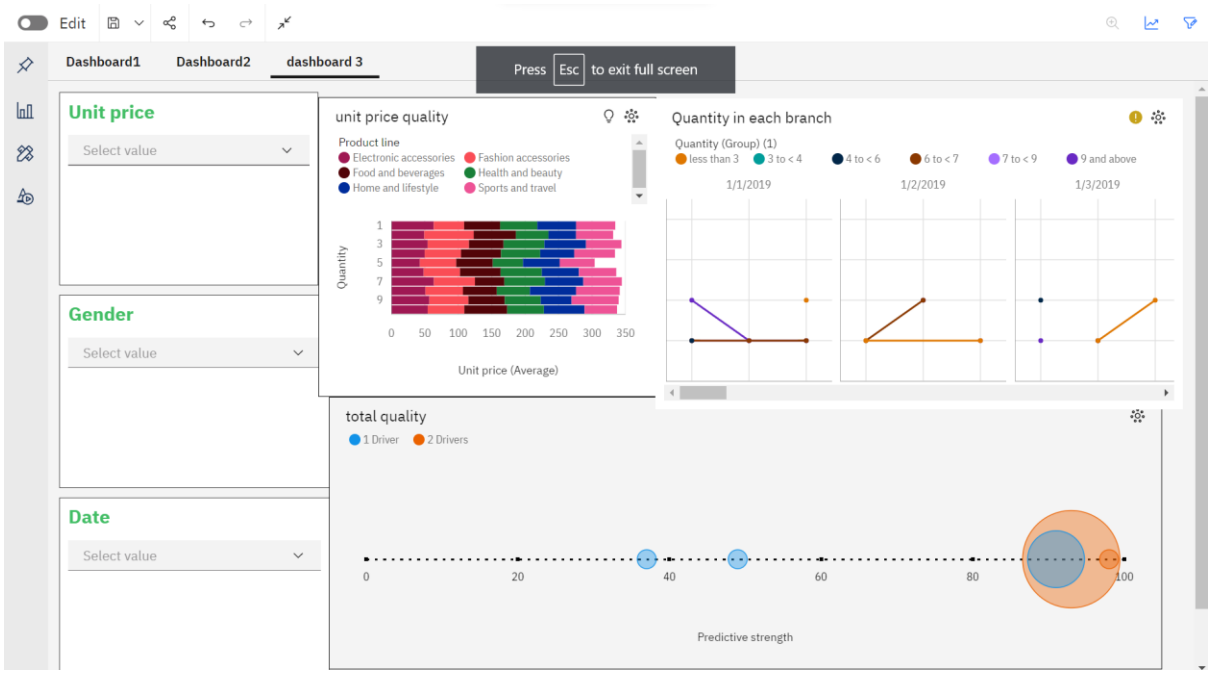
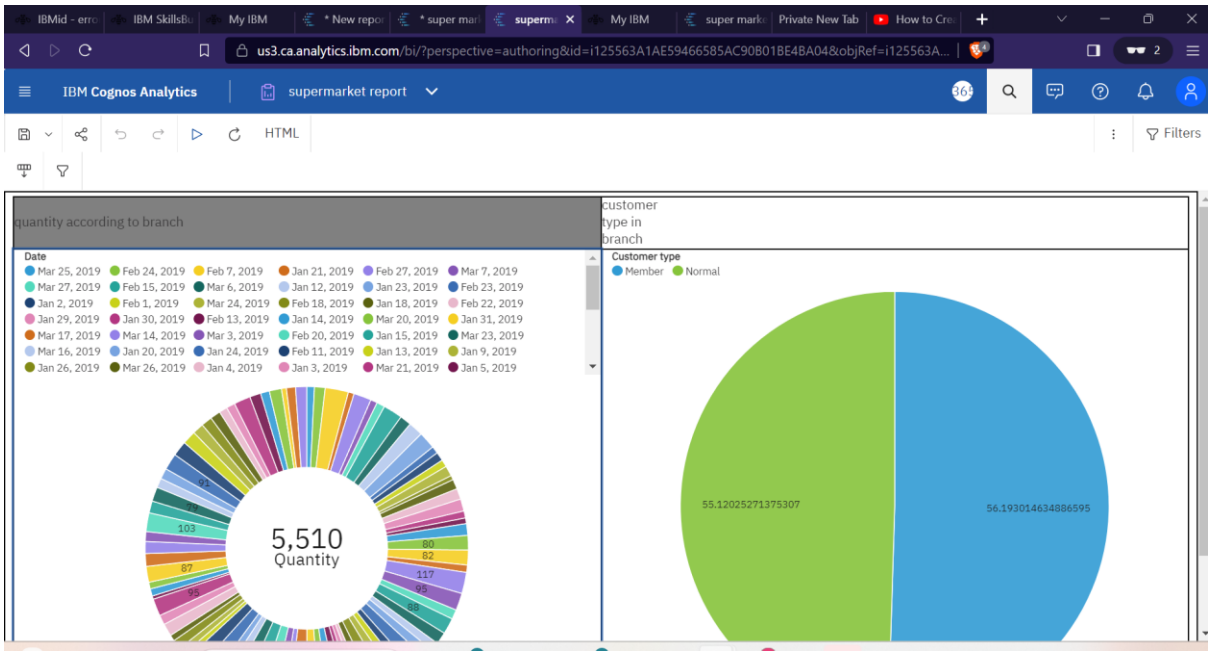

IBM Cognos Analytics
* supermarket visualization
us3.ca.analytics.ibm.com/bi/?perspective=explore&id=i54EBFA6C31ED430797CD7E2153EFB64D&objRef=i54EBFA6C3...
Cards
Time colored by... sized by Total
Date colored by...sized by Rating
Data relationships
Time colored by Rating sized by Total 5
Total (Sum)
13.42
2,534.64
Rating (Average)
4
10
Details
The total number of results for Rating, across all times, is a thousand.
Over all times, the sum of Total is nearly 323 thousand.
Total ranges from 13.42, when Time is 14:11:00, to over 2500, when Time is 14:42:00.
For Total, the most significant values of Time are 14:42:00 and 13:48:00, whose respective Total values add up to over five thousand, or 1.6 % of the total.
Search
ENG
IN
01:07 PM
01-09-2023


IBM Cognos Analytics
* supermarket visualization
11/16
Cards
Total and Unit p...or City regions
Total and Unit price for Time
Data relationships
Total and Unit price for City regions 10
Total (Sum)
Unit price (Average)
106,197.67
110,568.71
54.78
56.61
Kolkata
Chattogram
Myanmar (Burma)
Pu'er
Houayxay
Nay Pyi Taw
Chiang Mai
Vientia
Yangon
Thailand
Details
The total number of results for Unit price, across all cities, is a thousand.
Over all cities, the sum of Total is nearly 323 thousand.
Total ranges from over 106 thousand, in Mandalay, to nearly 111 thousand, in Naypyitaw.
IBM Cognos Analytics
* supermarket visualization
12/16
Cards
Total and Unit price for Time
Total and Unit price by Date
Data relationships
Total and Unit price for Time
Total (Sum)
Unit price (Average) 5
Details
The total number of results for Unit price, across all times, is a thousand.
Over all times, the sum of Total is nearly 323 thousand.
Total ranges from 13.42, when Time is 14:11:00, to over 2500, when Time is 14:42:00.
For Total, the most significant values of Time are 14:42:00 and 13:48:00, whose respective Total values add up to over five thousand, or 1.6 % of the total.



SUPERMARKET DASHBOARD:





SUPERMARKET REPORT: