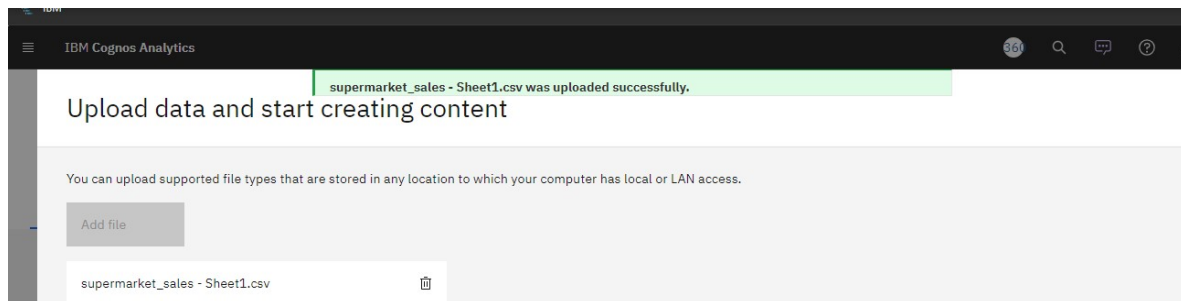


Data Analytics Assignment-1

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Reg No: 21BCE9325

1. Upload the dataset (Supermarket_sales) to Cognos Analytics



2. Deleting the unnecessary columns

1. Deleting the invoice Id

Select Invoice Id then right click ,remove.

Before Deleting

The screenshot shows the IBM Cognos Analytics interface with the "supermarket data module" selected. The "Data module" pane on the left lists the columns: Invoice ID, Branch, City, Customer type, Gender, Product line, Unit price, Quantity, Tax 5%, Total, Date, and Time. The "Grid" view is active, displaying a table with the following columns: Row Id, Invoice ID, Branch, City, Customer type, and Gender. The table contains 9 rows of data (Row Ids 84 to 92).

Row Id	Invoice ID	Branch	City	Customer type	Gender
84	787-56-0757	C	Naypyitaw	Member	Female
85	360-39-5055	C	Naypyitaw	Member	Male
86	730-50-9884	C	Naypyitaw	Normal	Female
87	362-56-8315	C	Naypyitaw	Normal	Male
88	633-44-8566	A	Yangon	Member	Male
89	504-35-8843	A	Yangon	Normal	Male
90	318-68-5053	B	Mandalay	Normal	Female
91	565-80-5980	C	Naypyitaw	Member	Female
92	225-32-0908	C	Naypyitaw	Normal	Female

After Deleting

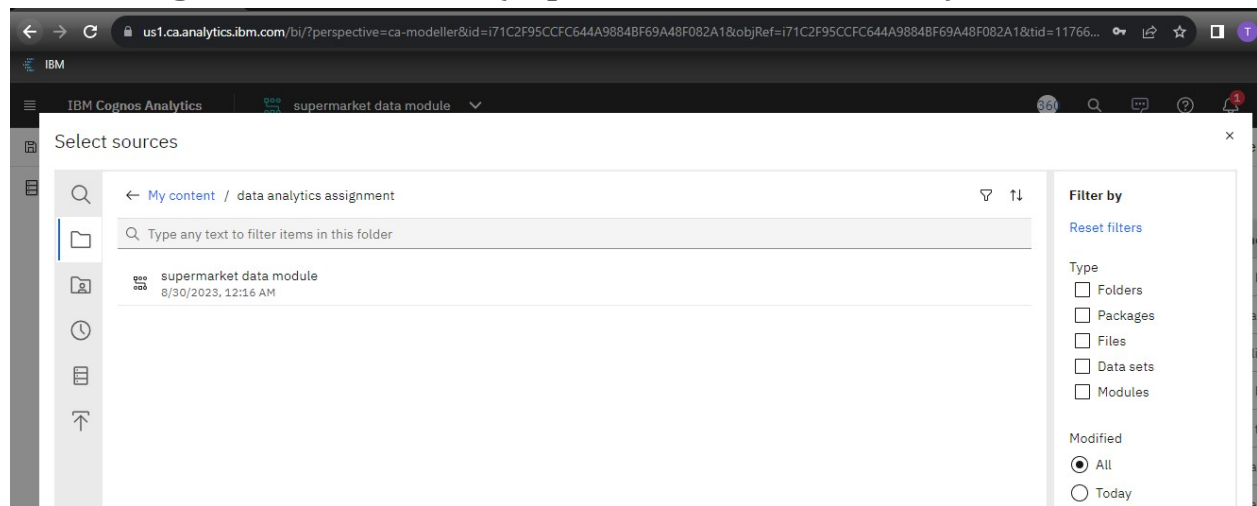
Row Id	Branch	City	Customer type	Gender	Product line
1	A	Yangon	Member	Female	Health and beauty
2	C	Naypyitaw	Normal	Female	Electronic accessories
3	A	Yangon	Normal	Male	Home and lifestyle
4	A	Yangon	Member	Male	Health and beauty
5	A	Yangon	Normal	Male	Sports and travel
6	C	Naypyitaw	Normal	Male	Electronic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

2.Deleting the Time

Select Time then right click ,remove.

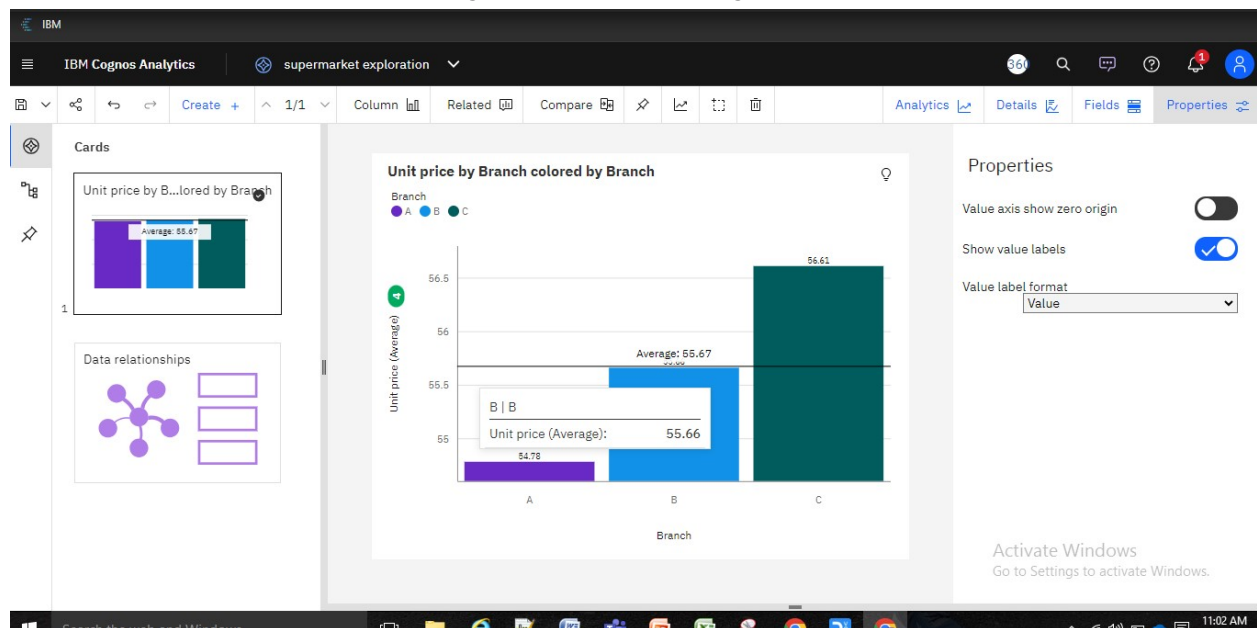
Day of the week	Time	Payment	cogs	gross margin percentage	gross
Saturday	13:08:00		.83	4.761904762	26
Friday	10:29:00			4.761904762	3.6
Sunday	13:23:00		.31	4.761904762	16
Sunday	20:33:00		.76	4.761904762	23
Friday	10:37:00		.17	4.761904762	30
Monday	18:30:00		.73	4.761904762	29
Monday	14:36:00		.04	4.761904762	20
Sunday	11:38:00		.6	4.761904762	36
Thursday	17:15:00	Credit card	72.52	4.761904762	3.6
Wednesday	13:27:00	Credit card	164.52	4.761904762	8.2

3. Creating new dataModule (supermarket datamodule)

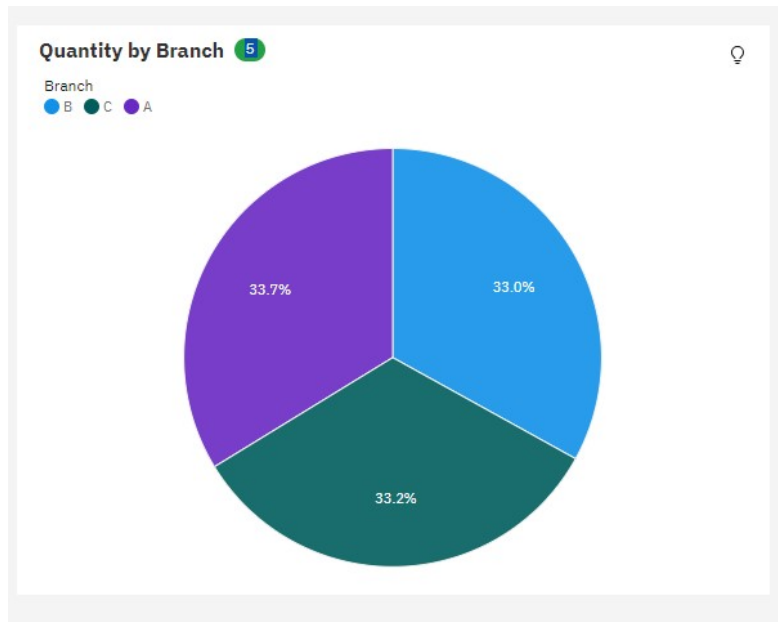


4. Explore and Visualize the Dataset(Supermarket_sales)

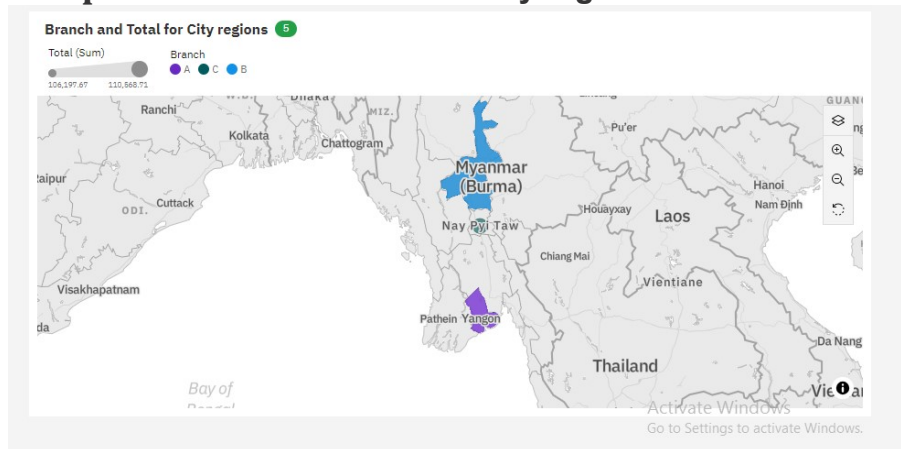
a. Column Chart---Unit price by Branch colored by Branch



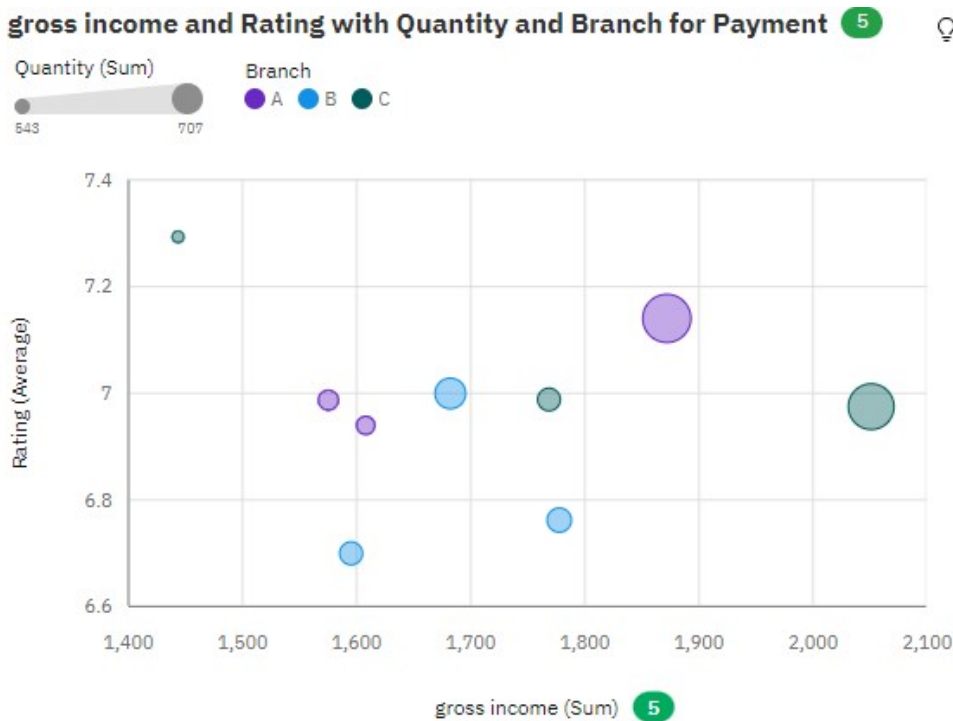
b. Pie Chart---Quantity by Branch



c. Map----Branch and Total for City regions



d. Bubble Chart---gross income and Rating with Quantity and Branch for Payment



e. Crosstab--Total for Branch and Customer type

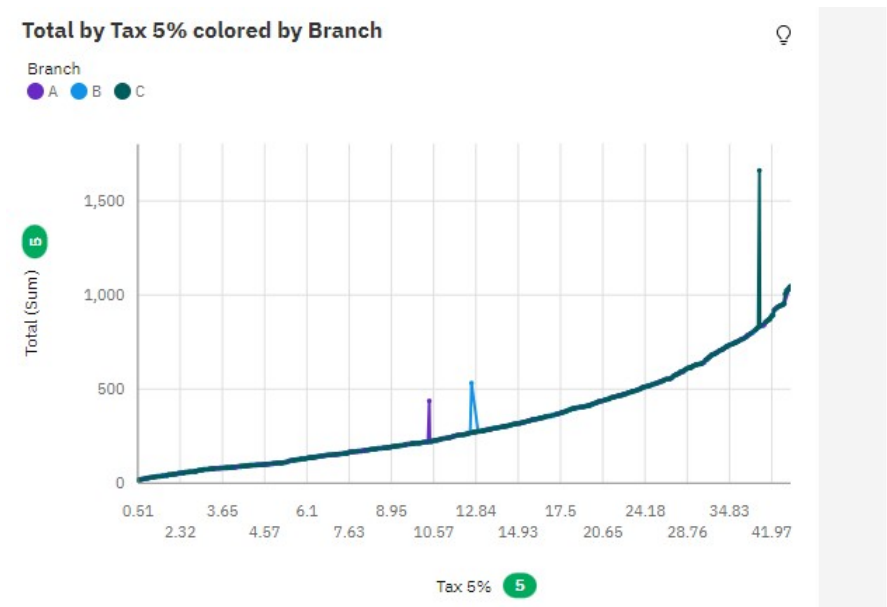
Total for Branch and Customer type 5

Total	A	B	C	Summary
Member	53,637.48	53,704.69	56,881.28	164,22
Normal	52,562.89	52,492.99	53,687.42	158,74
Summary	106,200.37	106,197.67	110,568.71	322,96

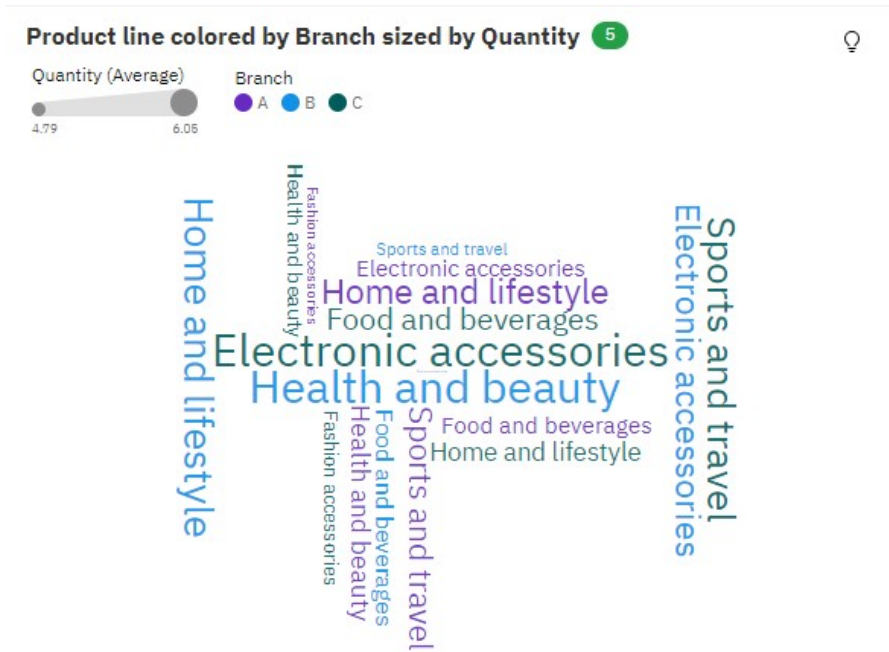
f. Waterfall chart-Rating for Quantity



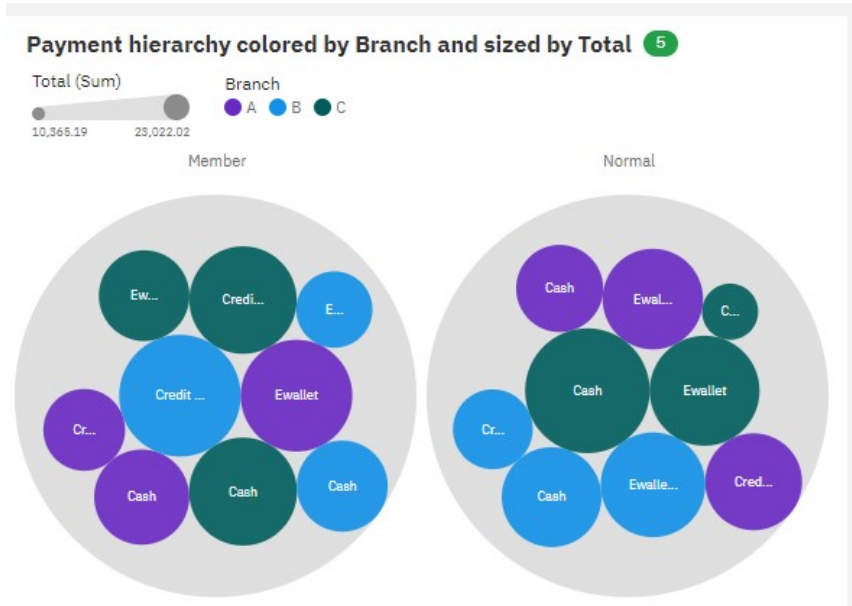
g. Line chart--Total by Tax 5% colored by Branch



h.Word Cloud--Product line colored by Branch sized by Quantity



i.Hierarchy Bubble--Payment hierarchy colored by Branch and sized by Total



j.Radial--Unit price by Month colored by Branch

Unit price by Month colored by Branch 4

Branch
● A ● B ● C

