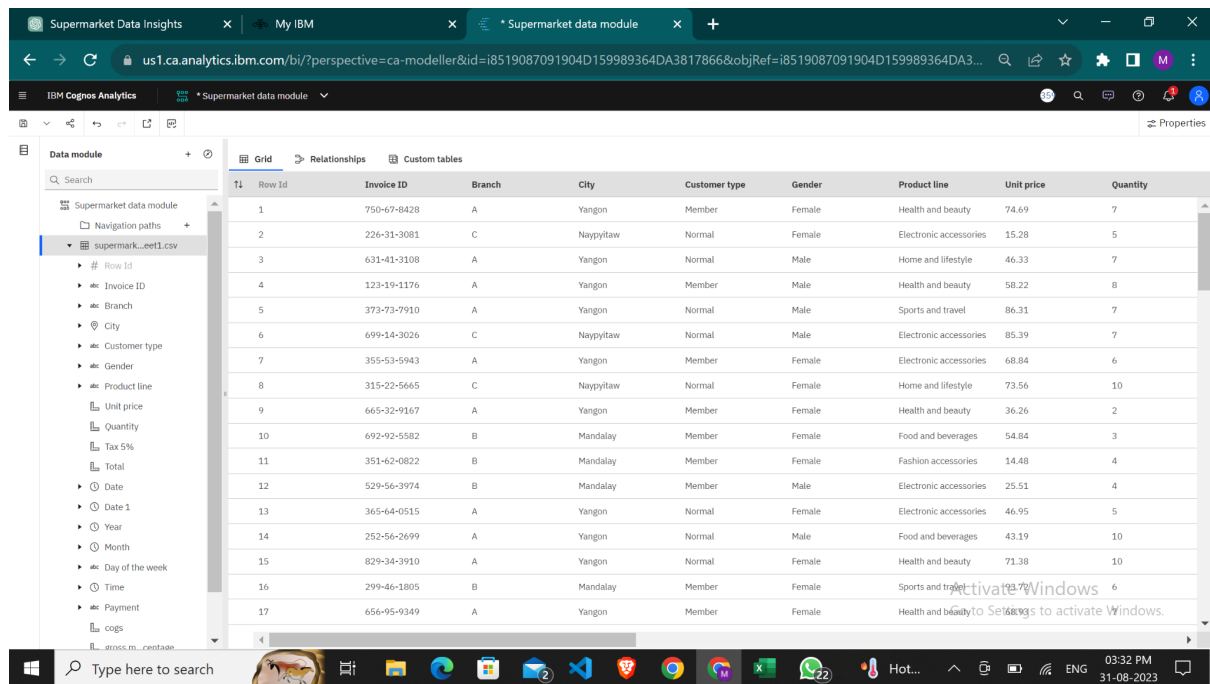


# Data Analytics using IBM Cognos Analytics

## ASSIGNMENT-1

NAME :M.S.MOHAMMED HUZAIFA  
REGISTRATION\_NO:21BCE9425

### DATA MODULE OF SUPERMARKET :



Row Id	Invoice ID	Branch	City	Customer type	Gender	Product line	Unit price	Quantity
1	750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7
2	226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	15.28	5
3	631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33	7
4	123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8
5	373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7
6	699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	85.39	7
7	355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84	6
8	315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56	10
9	665-32-9167	A	Yangon	Member	Female	Health and beauty	36.26	2
10	692-92-5582	B	Mandalay	Member	Female	Food and beverages	54.84	3
11	351-62-0822	B	Mandalay	Member	Female	Fashion accessories	14.48	4
12	529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.51	4
13	365-64-0515	A	Yangon	Normal	Female	Electronic accessories	46.95	5
14	252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19	10
15	829-34-3910	A	Yangon	Normal	Female	Health and beauty	71.38	10
16	299-46-1805	B	Mandalay	Member	Female	Sports and travel	83.79	6
17	656-95-9349	A	Yangon	Member	Female	Health and beauty	10.93	1

Splitting date into year,month,day of the week

Supermarket Data Insights | My IBM | Supermarket data module

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i8519087091904D159989364DA3817866&objRef=i8519087091904D159989364DA3...

IBM Cognos Analytics | Supermarket data module

Data module

Search

Supermarket data module

Navigation paths

supermark...et1.csv

# Row Id

Invoice ID

Branch

City

Customer type

Gender

Product line

Unit price

Quantity

Tax 5%

Total

Date

Date 1

Year

Month

Day of the week

Time

Payment

cogs

Tax 5%	Total	Date	Date 1	Year	Month	Day of the week	Time	Payment
26.1415	548.9715	1/5/2019	2019-05-01	2019	5	Wednesday	13:08:00	Ewallet
3.82	80.22	3/8/2019	2019-08-03	2019	8	Saturday	10:29:00	Cash
16.2155	340.5255	3/3/2019	2019-03-03	2019	3	Sunday	13:23:00	Credit card
23.288	489.048	1/27/2019	Null	Null	Null	Null	20:33:00	Ewallet
30.2085	634.3785	2/8/2019	2019-08-02	2019	8	Friday	10:37:00	Ewallet
29.8865	627.6165	3/25/2019	Null	Null	Null	Null	18:30:00	Ewallet
20.652	433.692	2/25/2019	Null	Null	Null	Null	14:36:00	Ewallet
36.78	772.38	2/24/2019	Null	Null	Null	Null	11:38:00	Ewallet
3.626	76.146	1/10/2019	2019-10-01	2019	10	Tuesday	17:15:00	Credit card
8.226	172.746	2/20/2019	Null	Null	Null	Null	13:27:00	Credit card
2.896	60.816	2/6/2019	2019-06-02	2019	6	Sunday	18:07:00	Ewallet
5.102	107.142	3/9/2019	2019-09-03	2019	9	Tuesday	17:03:00	Cash
11.7375	246.4875	2/12/2019	2019-12-02	2019	12	Monday	10:25:00	Ewallet
21.595	453.495	2/7/2019	2019-07-02	2019	7	Tuesday	16:48:00	Ewallet
35.69	749.49	3/29/2019	Null	Null	Null	Null	19:21:00	Cash
28.116	590.436	1/15/2019	Null	Null	Null	Null	16:19:00	Cash
24.1255	506.6355	3/11/2019	2019-11-03	2019	11	Sunday	11:03:00	Credit card

03:32 PM 31-08-2023

Supermarket Data Insights | My IBM | Supermarket data module

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i8519087091904D159989364DA3817866&objRef=i8519087091904D159989364DA3...

IBM Cognos Analytics | Supermarket data module

Data module

Search

Supermarket data module

Navigation paths

supermark...et1.csv

# Row Id

Invoice ID

Branch

City

Customer type

Gender

Product line

Unit price

Quantity

Tax 5%

Total

Date

Date 1

Year

Month

Day of the week

Time

Payment

cogs

gross margin percentage

gross income

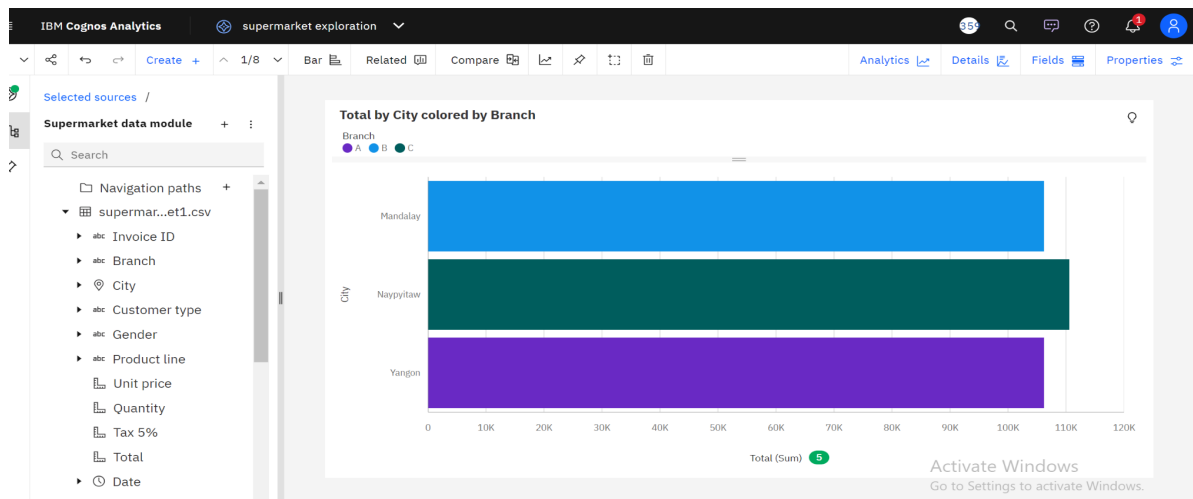
Rating

Year	Month	Day of the week	Time	Payment	cogs	gross margin percentage	gross income	Rating
19	5	Wednesday	13:08:00	Ewallet	522.83	4.761904762	26.1415	9.1
19	8	Saturday	10:29:00	Cash	76.4	4.761904762	3.82	9.6
19	3	Sunday	13:23:00	Credit card	324.31	4.761904762	16.2155	7.4
11	Null	Null	20:33:00	Ewallet	465.76	4.761904762	23.288	8.4
19	8	Friday	10:37:00	Ewallet	604.17	4.761904762	30.2085	5.3
11	Null	Null	18:30:00	Ewallet	597.73	4.761904762	29.8865	4.1
11	Null	Null	14:36:00	Ewallet	413.04	4.761904762	20.652	5.8
11	Null	Null	11:38:00	Ewallet	735.6	4.761904762	36.78	8
19	10	Tuesday	17:15:00	Credit card	72.52	4.761904762	3.626	7.2
19	6	Sunday	18:07:00	Ewallet	57.92	4.761904762	2.896	4.5
19	9	Tuesday	17:03:00	Cash	102.04	4.761904762	5.102	6.8
19	12	Monday	10:25:00	Ewallet	234.75	4.761904762	11.7375	7.1
19	7	Tuesday	16:48:00	Ewallet	431.9	4.761904762	21.595	8.2
11	Null	Null	19:21:00	Cash	713.8	4.761904762	35.69	5.7
11	Null	Null	16:19:00	Cash	562.32	4.761904762	28.116	4.5
19	11	Sunday	11:03:00	Credit card	482.51	4.761904762	24.1255	6.5

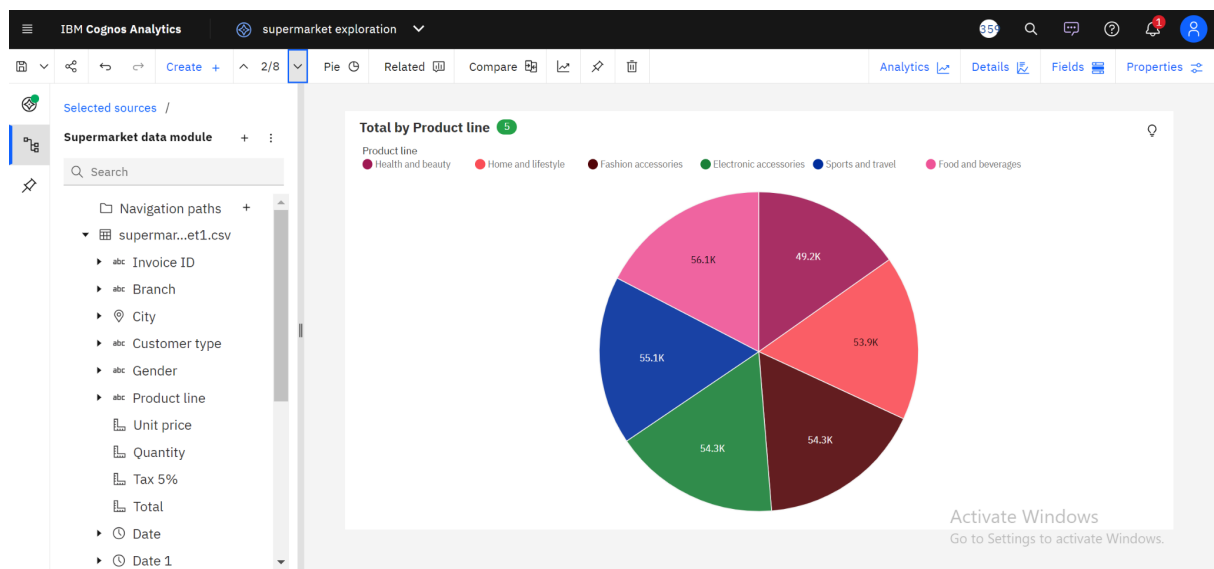
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# VISUALIZATIONS:

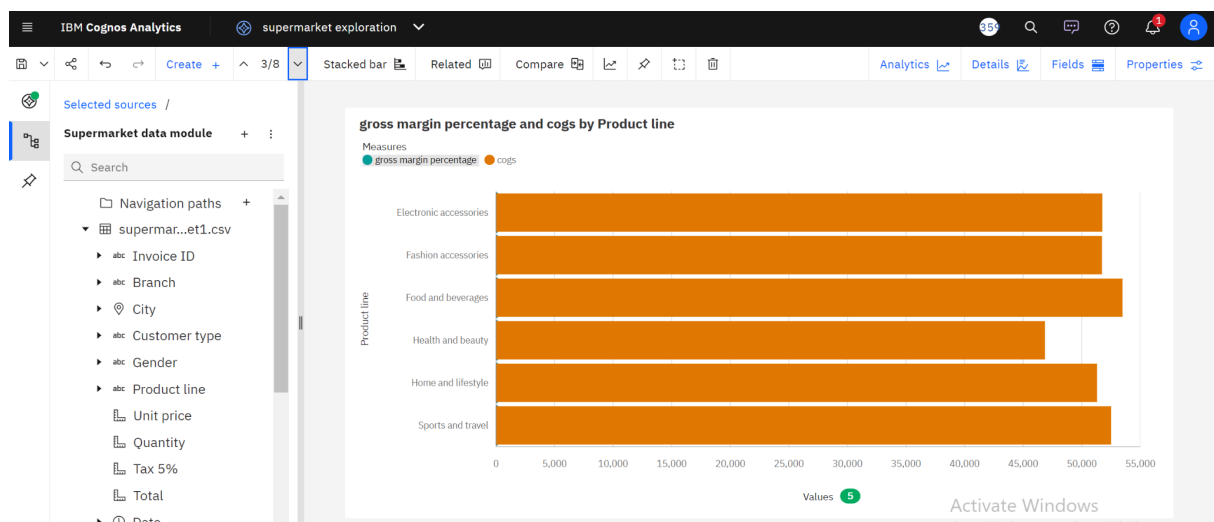
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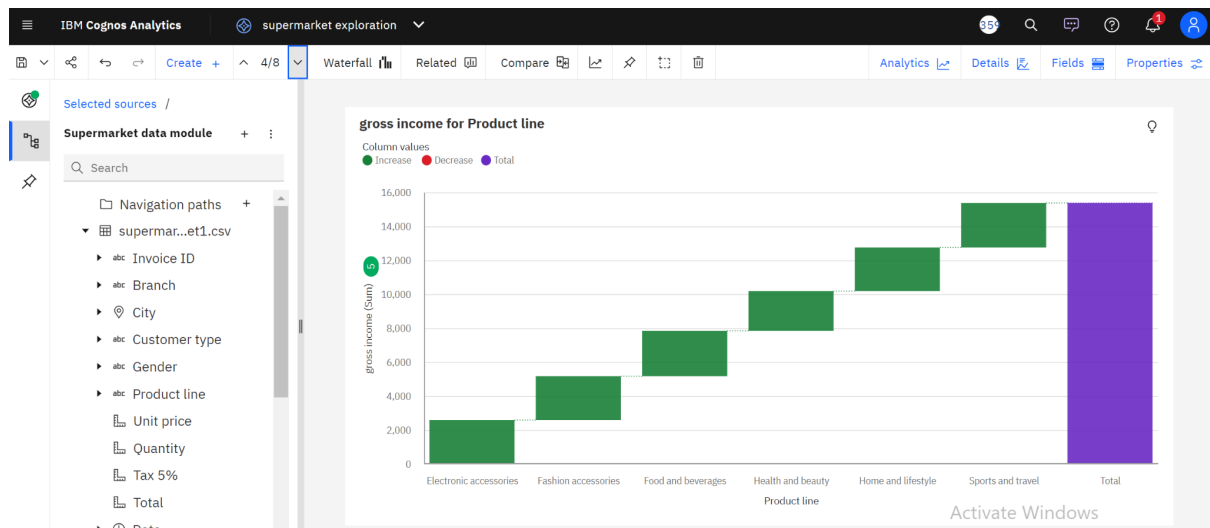
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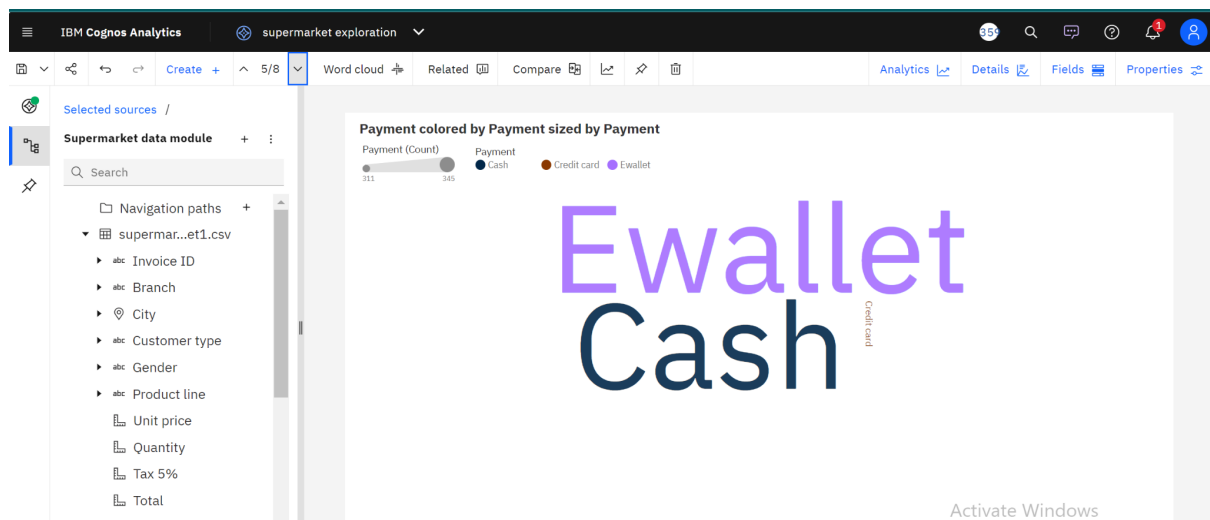
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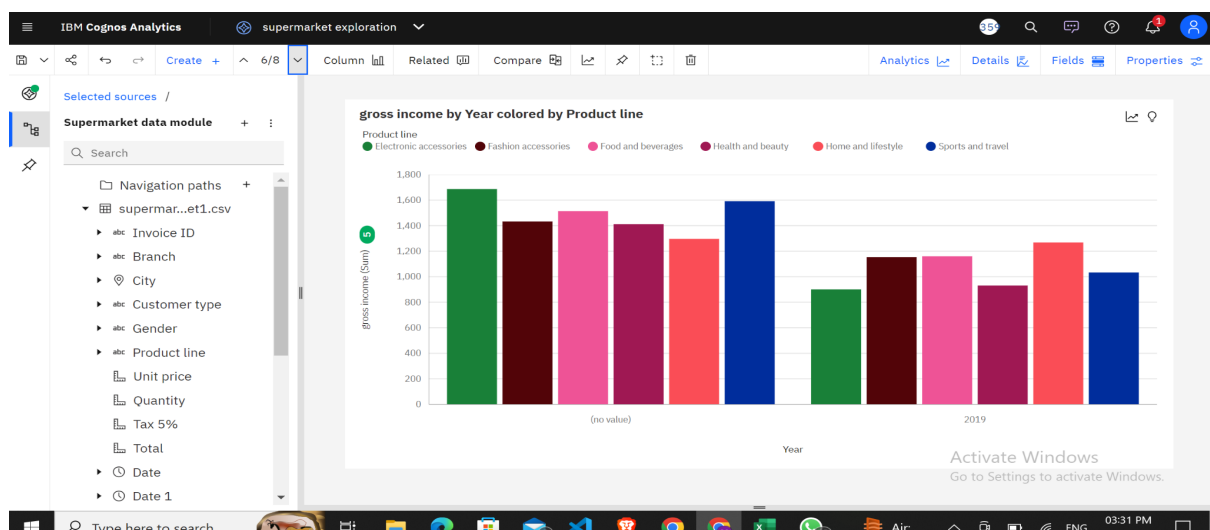
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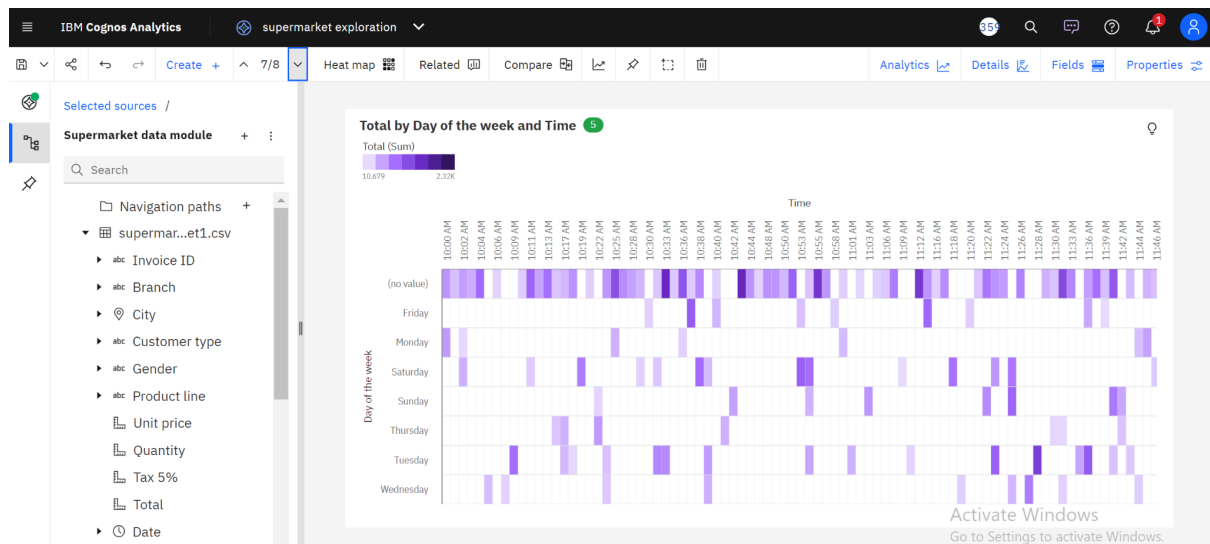
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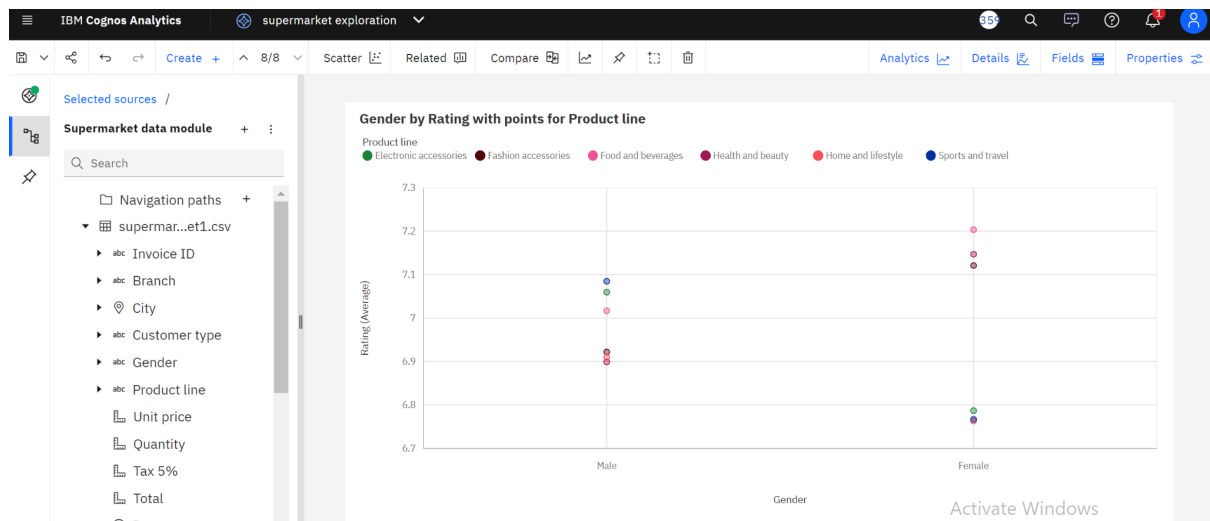
6.



7.



8.



Data visualization tools like charts, graphs, heatmaps, and dashboards can be used to visually represent these insights, making them easier to understand and communicate to stakeholders. Using these insights, we can make informed decisions to optimize supermarket's operations and improve customer satisfaction.