

ASSIGNMENT-1

Data Analytics with IBM cognos Analytics

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Challenge:

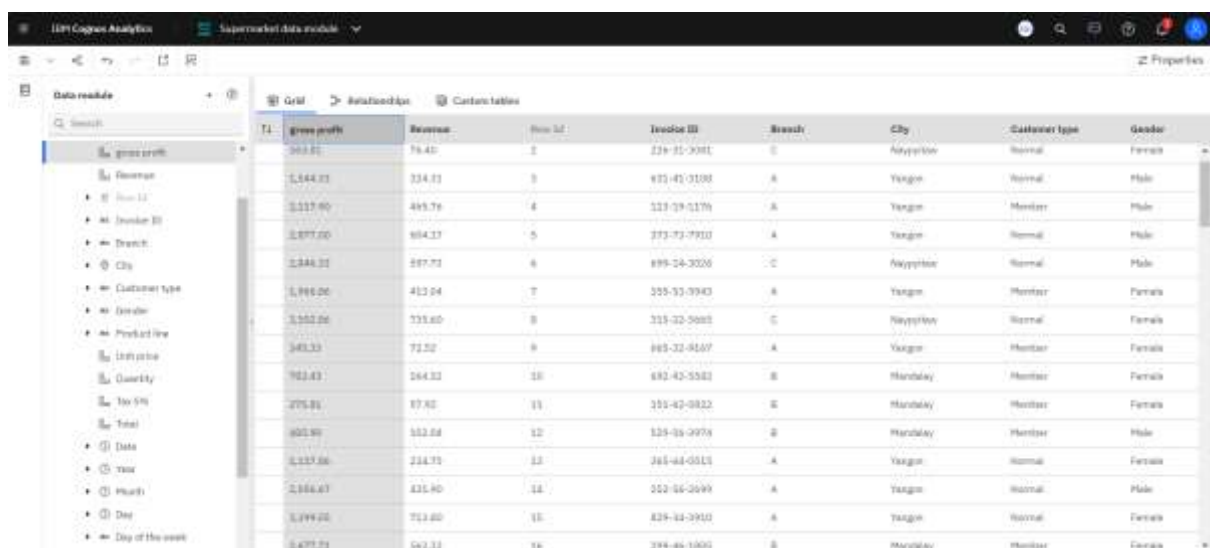
Upload the dataset to Cognos Analytics, delete the unnecessary columns, create a data module, explore and visualize the dataset

DATA MODULE:

Revenue=Unit price * Quantity

Gross profit=gross profit percentage *revenue

Date is split into 4 columns [year, month, date, day of week]



T1	gross profit	Revenue	Item ID	Invoice ID	Branch	City	Customer type	Gender
	363.81	76.40	2	228-71-3381	C	Nkypkpor	Normal	Female
	1,544.21	334.33	3	871-41-3100	A	Yagaji	Normal	Male
	3,317.60	485.76	4	313-39-5176	A	Yagaji	Member	Male
	3,877.00	604.37	5	373-73-7910	A	Yagaji	Normal	Male
	3,848.31	597.73	6	899-24-3026	C	Nkypkpor	Normal	Male
	1,966.06	412.04	7	355-53-3943	A	Yagaji	Member	Female
	3,352.06	733.60	8	313-32-5685	C	Nkypkpor	Normal	Female
	340.33	72.50	9	665-32-6167	A	Yagaji	Member	Female
	782.83	264.33	10	692-42-5583	B	Mundakay	Member	Female
	275.81	87.82	11	355-42-0822	C	Mundakay	Member	Female
	601.89	312.04	12	329-06-9979	B	Mundakay	Member	Male
	3,337.06	214.73	13	365-44-0313	A	Yagaji	Normal	Female
	3,868.67	435.40	14	002-06-0699	A	Yagaji	Normal	Male
	3,499.00	713.60	15	829-64-3910	A	Yagaji	Normal	Female
	3,477.31	542.11	16	399-49-1805	B	Mundakay	Member	Female

IBM Cognos Analytics Supermarket data module

Data module

Search

gross profit

Revenue

Invoice ID

Branch

City

Customer type

Order

Product line

Unit price

Quantity

Tax 5%

Total

Date

Year

Month

Day

Day of the week

Time

T1	Product line	Unit price	Quantity	Tax 5%	Total	Date	Year	Month
1	Electronic accessories	15.28	5	3.82	81.22	2019-01-06	2019	1
2	Home and lifestyle	46.55	7	11.215	340.525	2019-01-05	2019	1
3	Health and beauty	58.22	8	11.288	489.548	2019-01-27	2019	1
4	Sports and travel	56.51	7	10.2085	404.3785	2019-02-08	2019	2
5	Electronic accessories	35.59	7	19.8865	427.9385	2019-03-25	2019	3
6	Electronic accessories	60.04	8	20.052	433.892	2019-02-25	2019	2
7	Home and lifestyle	71.56	10	16.78	772.38	2019-02-04	2019	2
8	Health and beauty	24.28	2	1.218	76.548	2019-01-10	2019	1
9	Food and beverages	24.88	2	4.226	571.544	2019-02-30	2019	2
10	Fashion accessories	34.48	4	7.096	48.836	2019-02-06	2019	2
11	Electronic accessories	25.51	8	4.102	327.542	2019-03-09	2019	3
12	Electronic accessories	44.48	4	11.372	246.4874	2019-02-12	2019	2
13	Food and beverages	41.18	10	21.298	433.498	2019-02-07	2019	2
14	Health and beauty	71.38	10	16.89	749.49	2019-01-29	2019	1
15	Sports and travel	81.72	8	20.136	691.436	2019-01-15	2019	1

IBM Cognos Analytics Supermarket data module

Data module

Search

gross profit

Revenue

Invoice ID

Branch

City

Customer type

Order

Product line

Unit price

Quantity

Tax 5%

Total

Date

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Month

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Day of the week

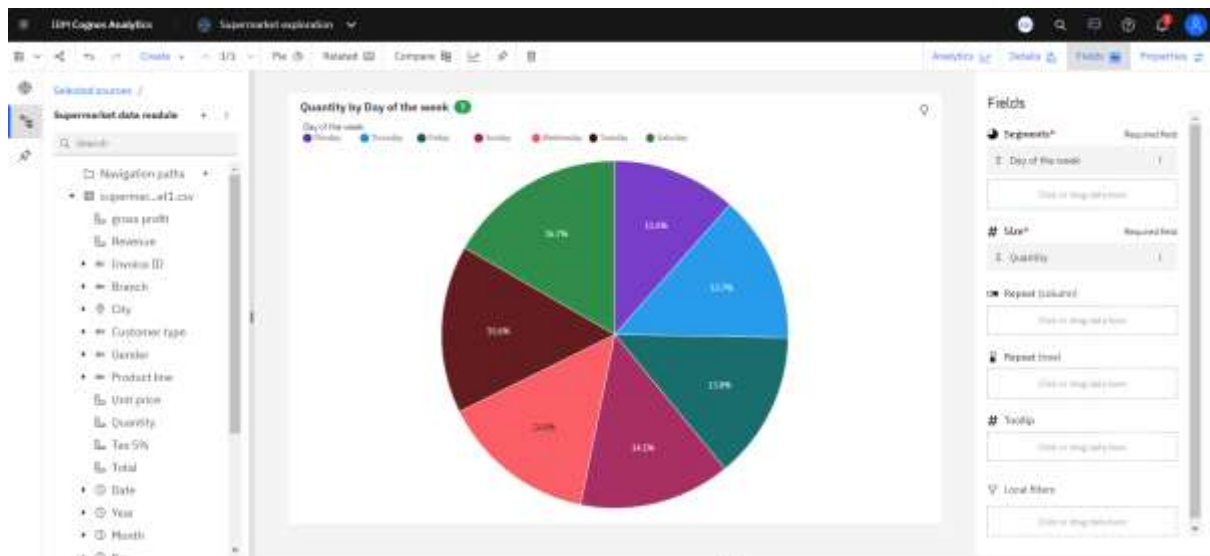
Time

T1	Day	Day of the week	Time	Payment	avg	gross margin percentage	gross income	Rating
1	Friday	10:00:00	Cash	76.4	A791904762	3.82	9.6	5.6
2	Sunday	12:22:06	Credit card	328.31	A791904762	16.2155	7.8	7.8
3	Sunday	20:52:06	Swalnet	885.76	A791904762	22.268	8.8	8.8
4	Friday	10:17:01	Swalnet	608.07	A791904762	10.2065	5.2	5.2
5	Monday	14:02:00	Swalnet	297.73	A791904762	16.0685	4.1	4.1
6	Monday	14:14:00	Swalnet	815.04	A791904762	16.042	5.8	5.8
7	Sunday	11:18:00	Swalnet	739.4	A791904762	16.78	8	8
8	Thursday	17:15:00	Credit card	72.32	A791904762	3.626	7.2	7.2
9	Wednesday	13:27:00	Credit card	164.52	A791904762	8.226	5.9	5.9
10	Wednesday	18:07:00	Swalnet	97.92	A791904762	2.896	4.5	4.5
11	Saturday	17:03:00	Cash	102.04	A791904762	5.102	6.8	6.8
12	Tuesday	10:25:00	Swalnet	234.75	A791904762	11.7375	7.1	7.1
13	Thursday	18:46:00	Swalnet	431.4	A791904762	21.795	9.2	9.2
14	Friday	19:22:00	Cash	713.4	A791904762	35.68	8.7	8.7
15	Tuesday	16:19:00	Cash	962.33	A791904762	10.116	8.5	8.5

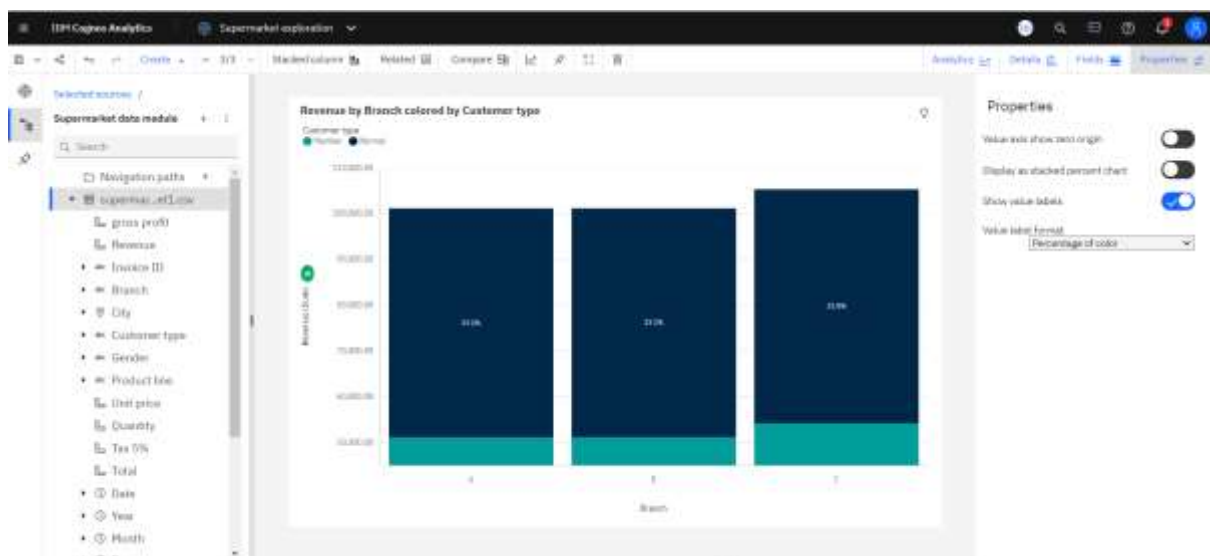
Data module link: https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FVIT%2FSupermarket%2Bdata%2Bmodule

EXPLORATIONS:

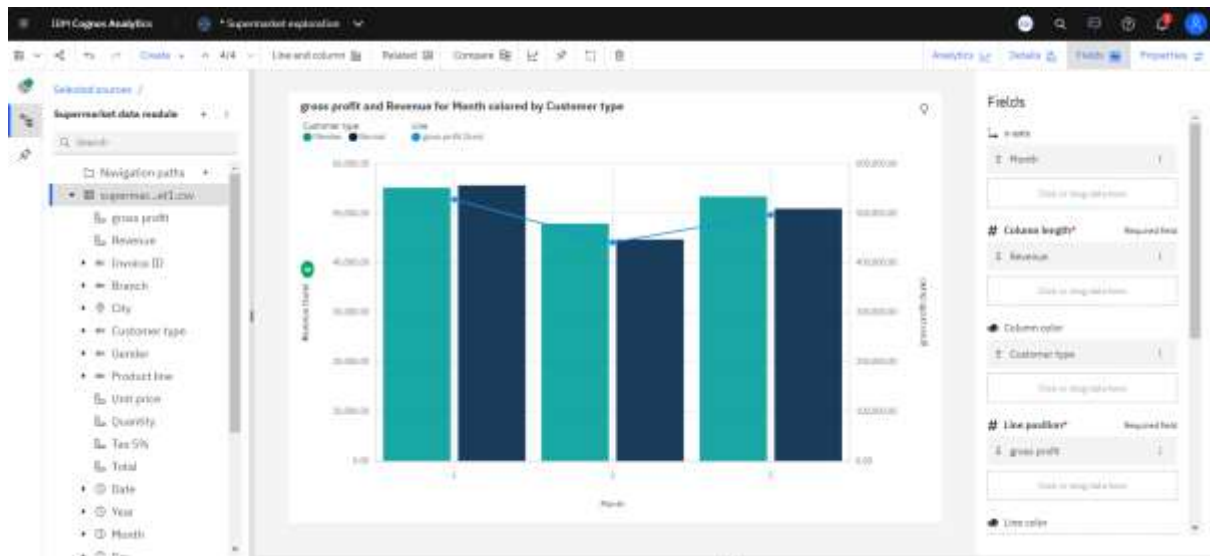
1) Pie chart



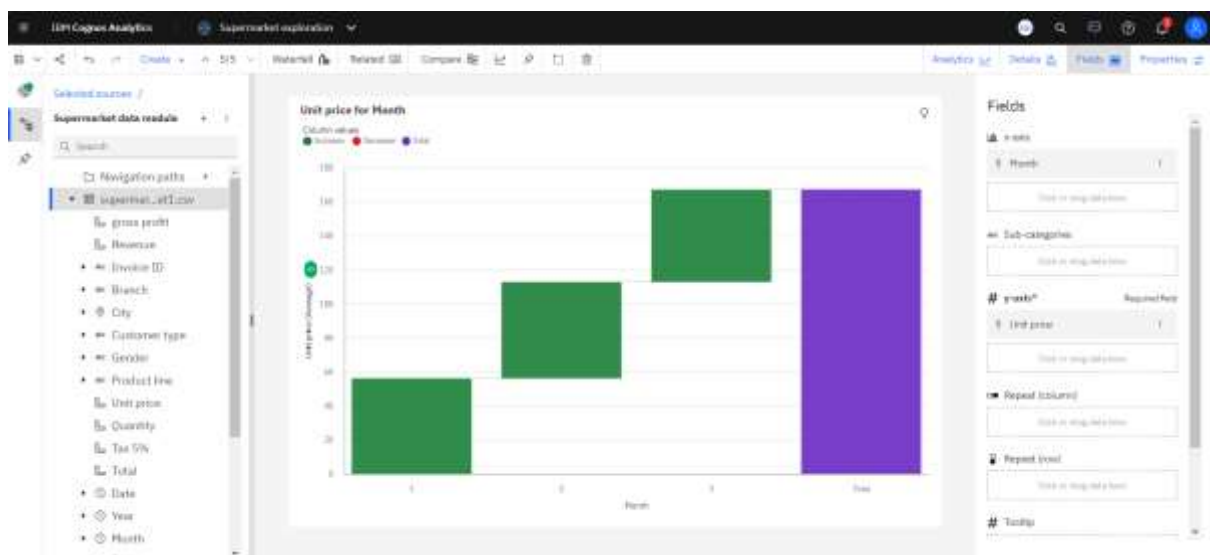
2) Stacked column chart



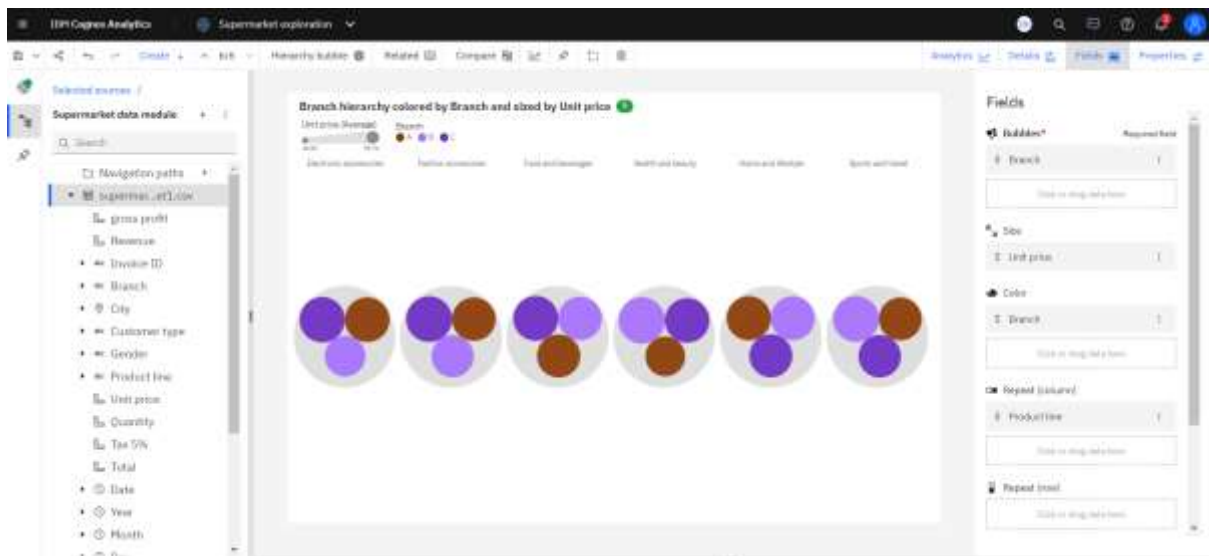
3) Line and column chart



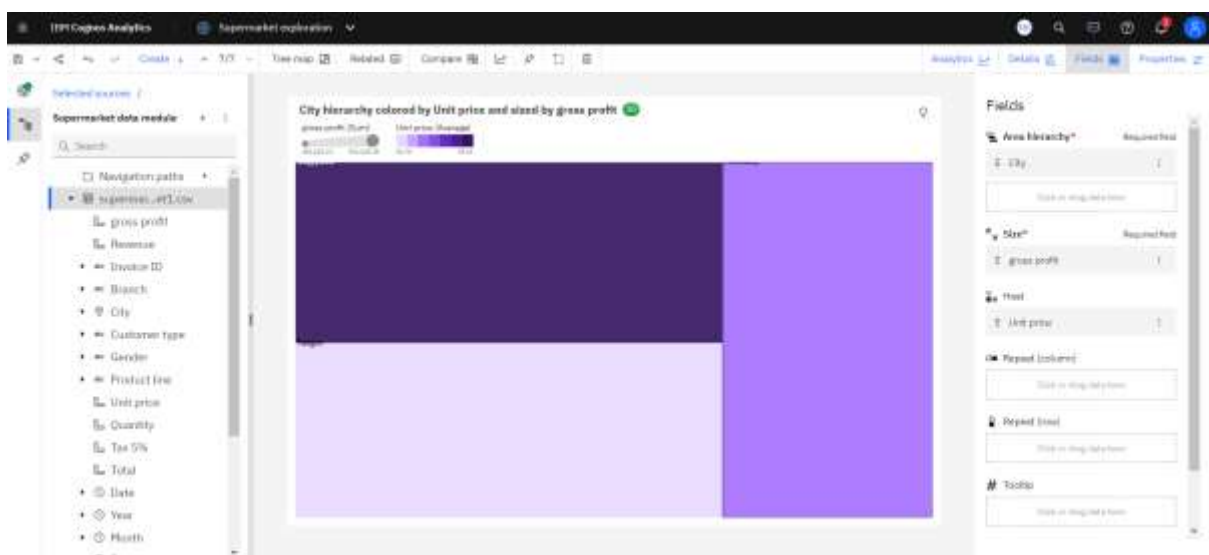
4) Waterfall chart



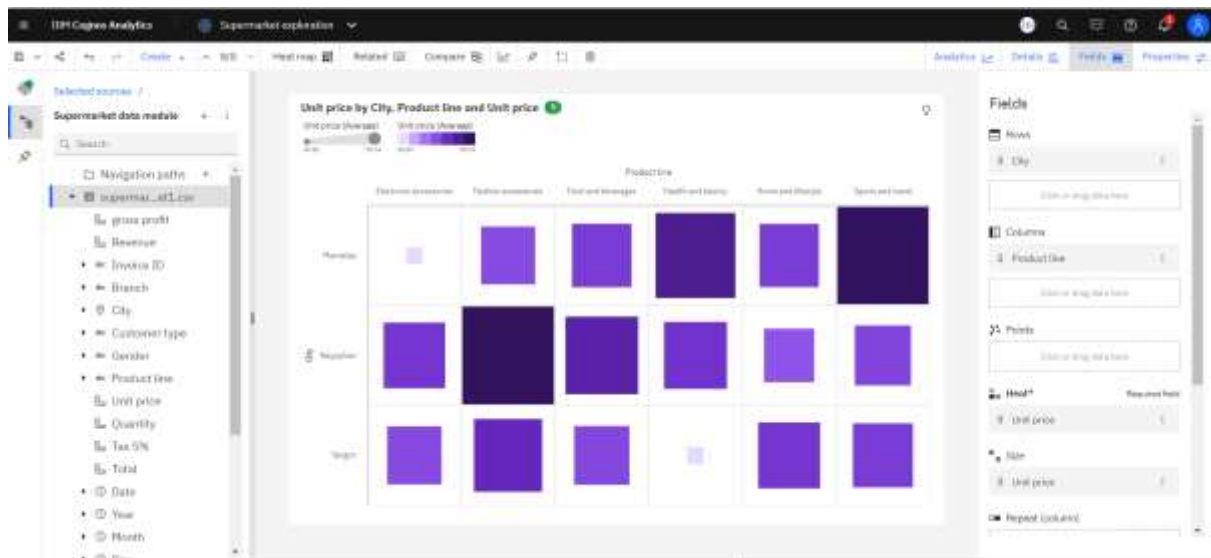
5) Hierarchy bubble chart



6) Tree map chart



7)Heat map chart



8)Radial chart

