

ASSIGNMENT - 1

DATA ANALYTICS WITH IBM COGNOS

STEP-1

Uploaded the data module and removed the attribute invoice_id and introduced the calculation of Revenue using the below

Edit calculation

Name Revenue

Components

supermark...heet1.csv

- Revenue
- # Row Id
- Branch
- City
- Gender
- Product line
- Unit price
- Quantity
- Tax 5%
- Total
- Date

Expression

1 (Unit_price * Quantity) - Tax_5

Validation Results

The expression is valid.

Calculate after aggregation

Cancel OK

IBM Cognos Analytics

New data module

Data module

supermark...heet1.csv

Revenue

Revenue	Row Id	Branch	City	Gender	Product line	Unit price	Quantity
496.69	1	A	Yangon	Female	Health and beauty	74.69	7
72.58	2	C	Naypyitaw	Female	Electronic accessories	15.28	5
308.09	3	A	Yangon	Male	Home and lifestyle	46.33	7
442.47	4	A	Yangon	Male	Health and beauty	58.22	8
573.96	5	A	Yangon	Male	Sports and travel	86.31	7
567.84	6	C	Naypyitaw	Male	Electronic accessories	85.39	7
392.39	7	A	Yangon	Female	Electronic accessories	68.84	6
698.82	8	C	Naypyitaw	Female	Home and lifestyle	73.56	10
68.89	9	A	Yangon	Female	Health and beauty	36.26	2
156.29	10	B	Mandalay	Female	Food and beverages	54.84	3
55.02	11	B	Mandalay	Female	Fashion accessories	14.48	4
96.94	12	B	Mandalay	Male	Electronic accessories	25.51	4
223.01	13	A	Yangon	Female	Electronic accessories	46.95	5
410.30	14	A	Yangon	Male	Food and beverages	43.19	10
678.11	15	A	Yangon	Female	Health and beauty	71.38	10

Splited the date column into further divisions.

IBM Cognos Analytics | Supermarket datamodule

Data module

- Branch
- City
- Gender
- Product line
- Unit price
- Quantity
- Tax 5%
- Total
- Date**
- Year
- Month
- Day
- Day of the week
- Time
- Payment
- costs
- gross margin percentage
- gross income
- Rating

Edit split column - Date

Select the items that will be used to create new columns.

Year: 2019, Month: 1, Day: 5, ☒ Include the day of the week

Preview

Date	Year	Month	Day	Day of the week
2019-01-05	2019	1	5	Saturday
2019-02-06	2019	2	6	Wednesday
2019-03-29	2019	3	29	Friday
2019-03-11	2019	3	11	Monday
2019-03-22	2019	3	22	Friday
2019-02-10	2019	2	10	Sunday
2019-03-27	2019	3	27	Wednesday
2019-03-12	2019	3	12	Tuesday
2019-02-14	2019	2	14	Thursday
2019-01-24	2019	1	24	Thursday

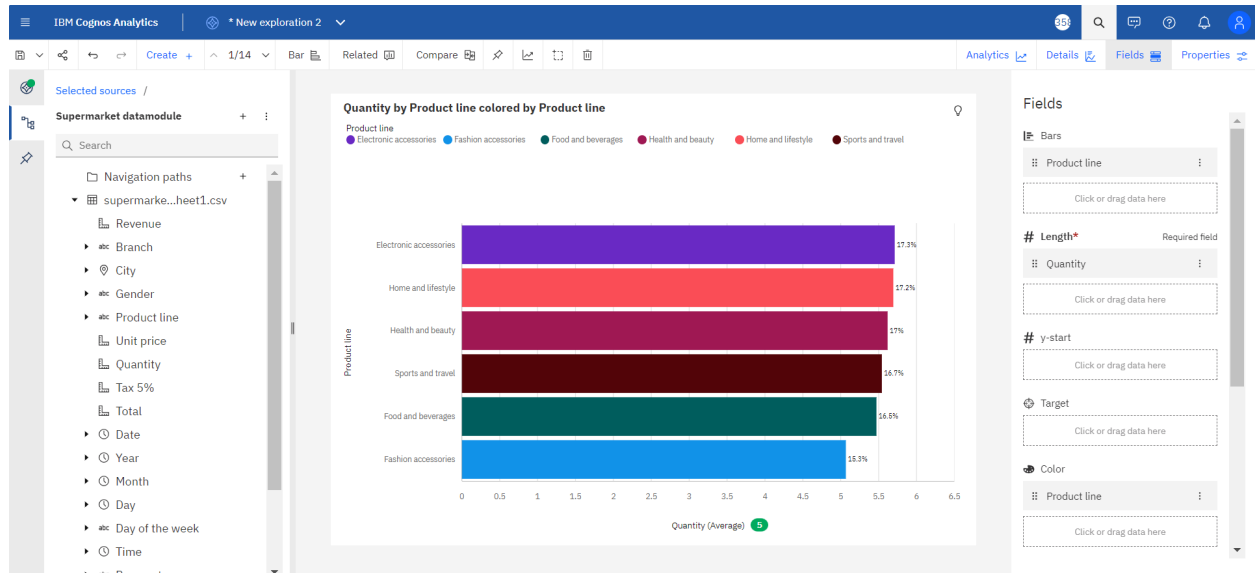
Cancel Next

	Total	Date	Year	Month	Day	Day of the week
	548.9715	2019-01-05	2019	1	5	Saturday
	80.22	2019-03-08	2019	3	8	Friday
	340.5255	2019-03-03	2019	3	3	Sunday
	489.048	2019-01-27	2019	1	27	Sunday
	634.3785	2019-02-08	2019	2	8	Friday
	627.6165	2019-03-25	2019	3	25	Monday
	433.692	2019-02-25	2019	2	25	Monday
	772.38	2019-02-24	2019	2	24	Sunday
	76.146	2019-01-10	2019	1	10	Thursday
	172.746	2019-02-20	2019	2	20	Wednesday
	60.816	2019-02-06	2019	2	6	Wednesday
	107.142	2019-03-09	2019	3	9	Saturday
	246.4875	2019-02-12	2019	2	12	Tuesday
	453.495	2019-02-07	2019	2	7	Thursday
	749.49	2019-03-29	2019	3	29	Friday

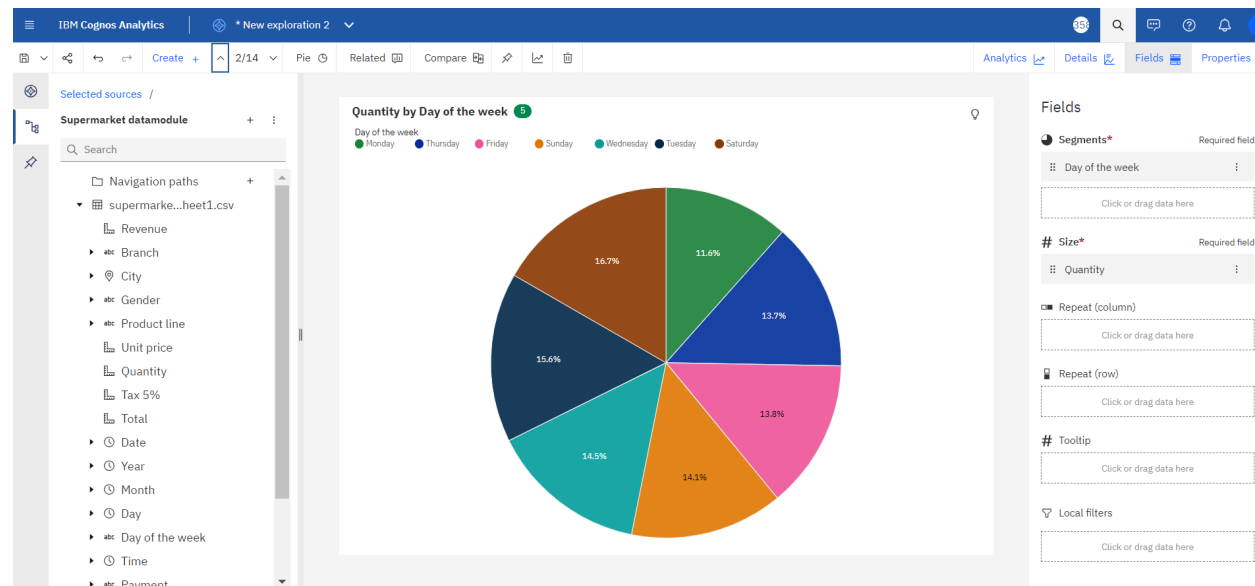
Thus deleting , sorting and adding of columns to the data is completed now comes visualization.

VISUALIZATION OF THE DATASET :

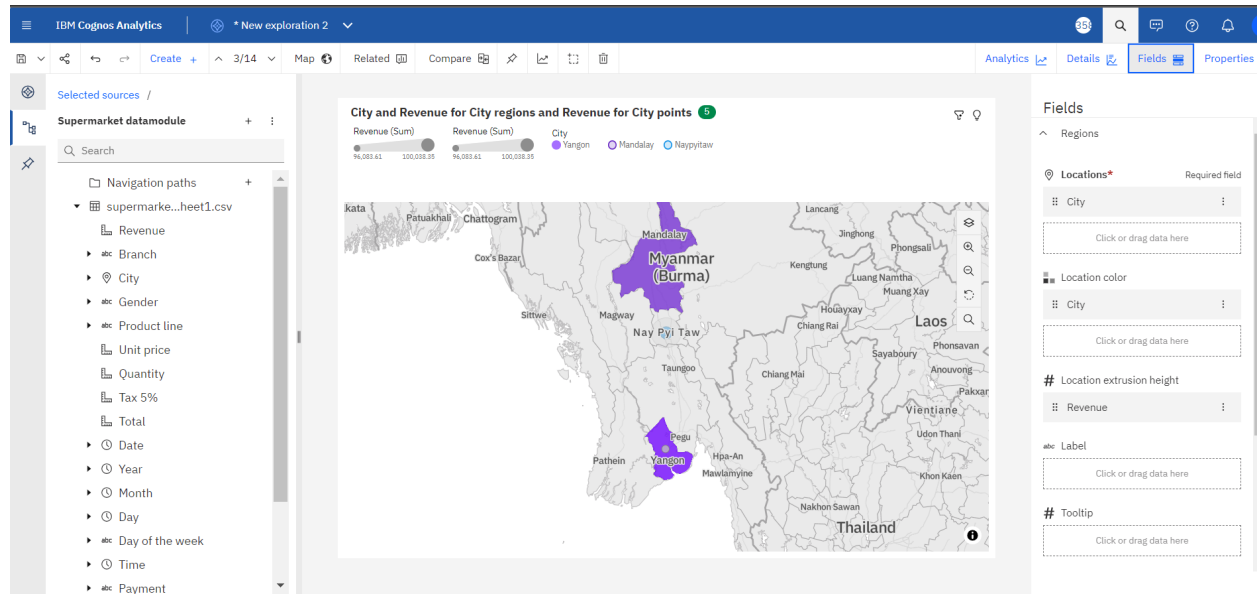
1] BAR CHART



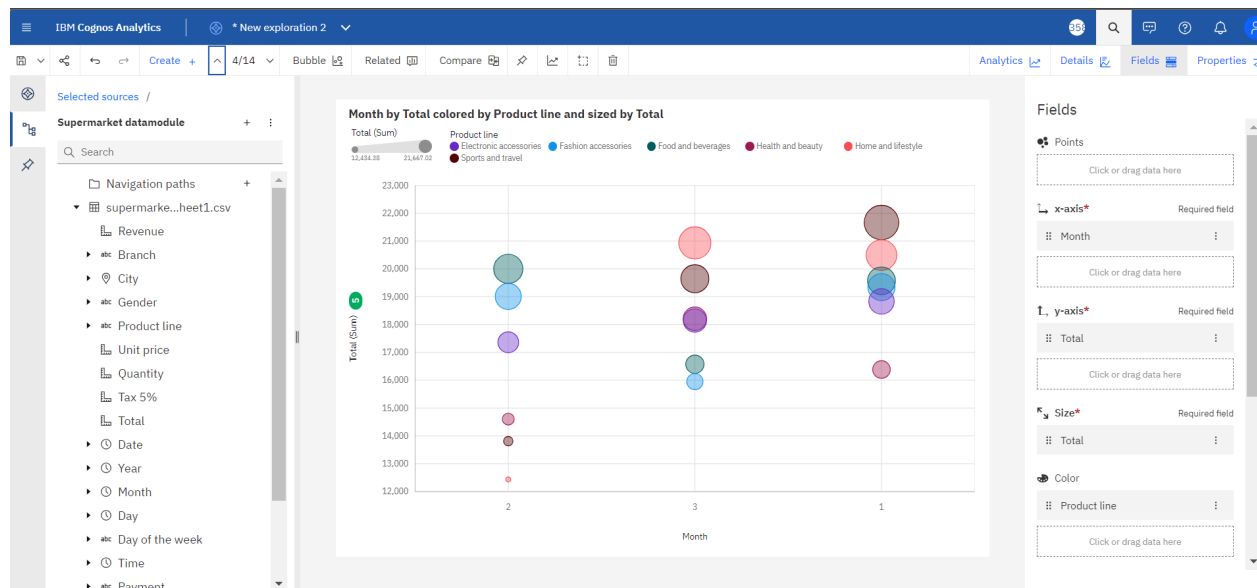
2]PIE CHART



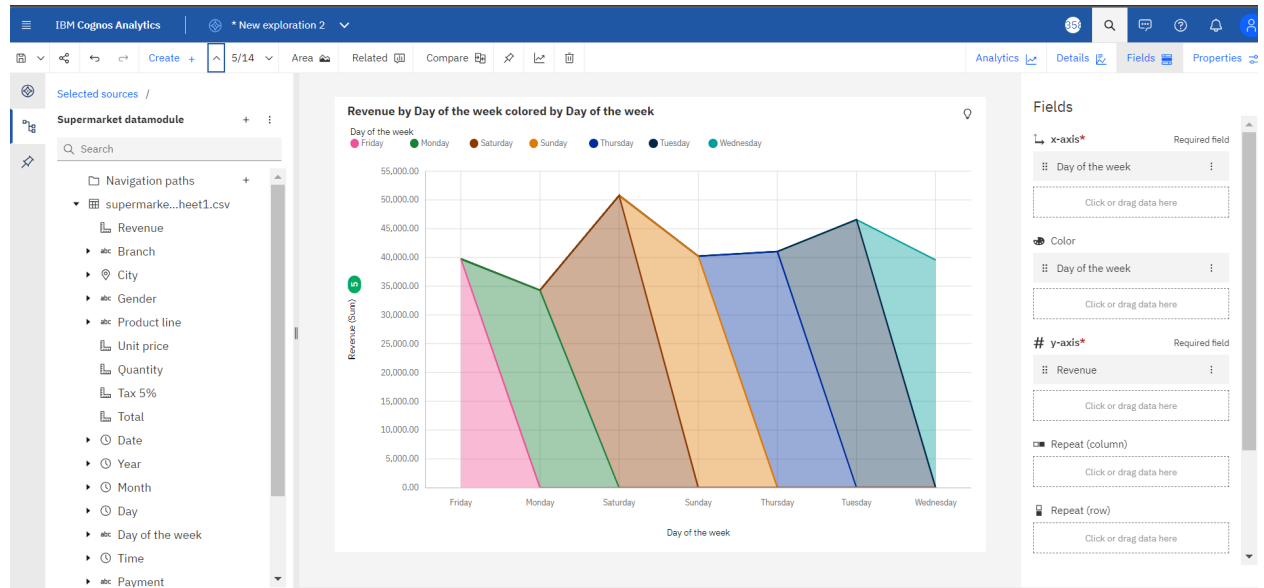
3] MAP



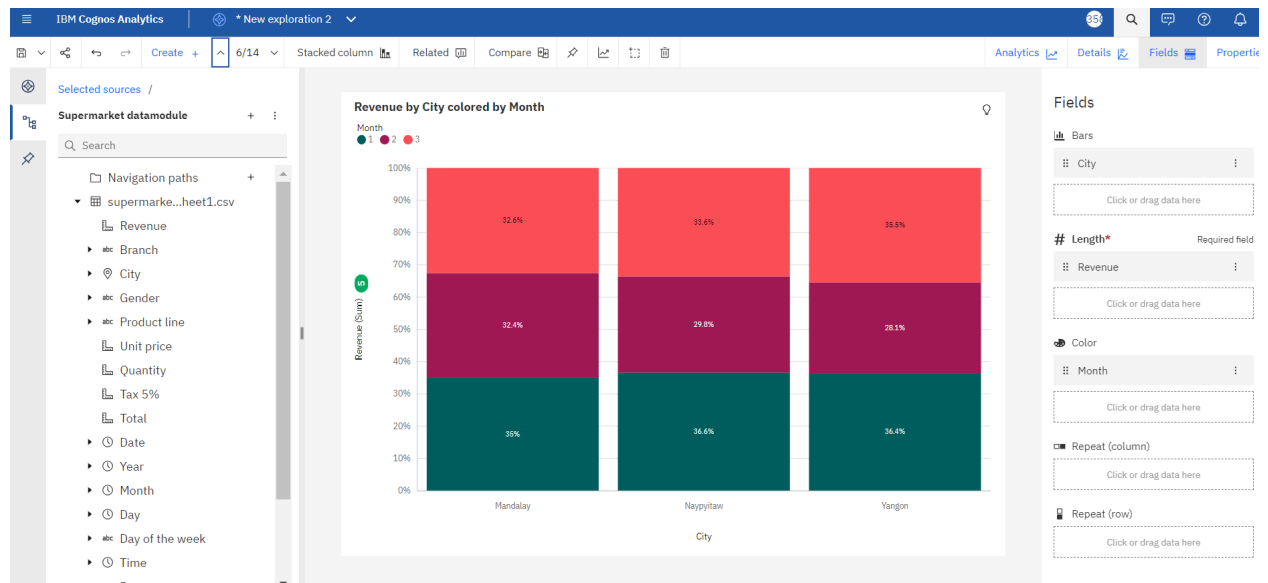
4] BUBBLE PLOT



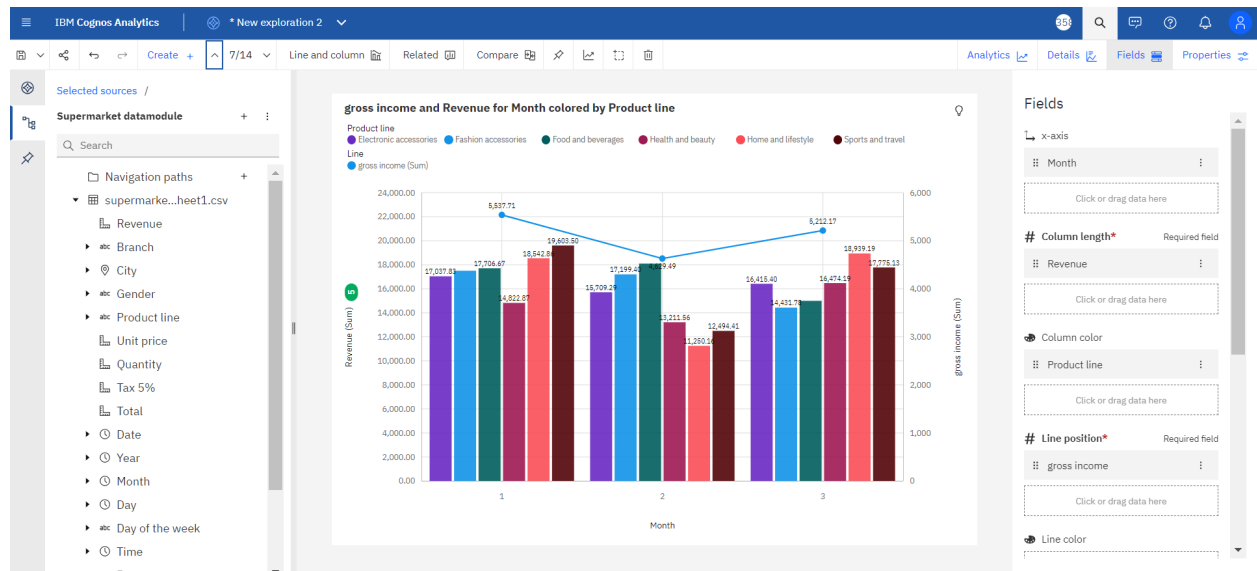
5] AREA



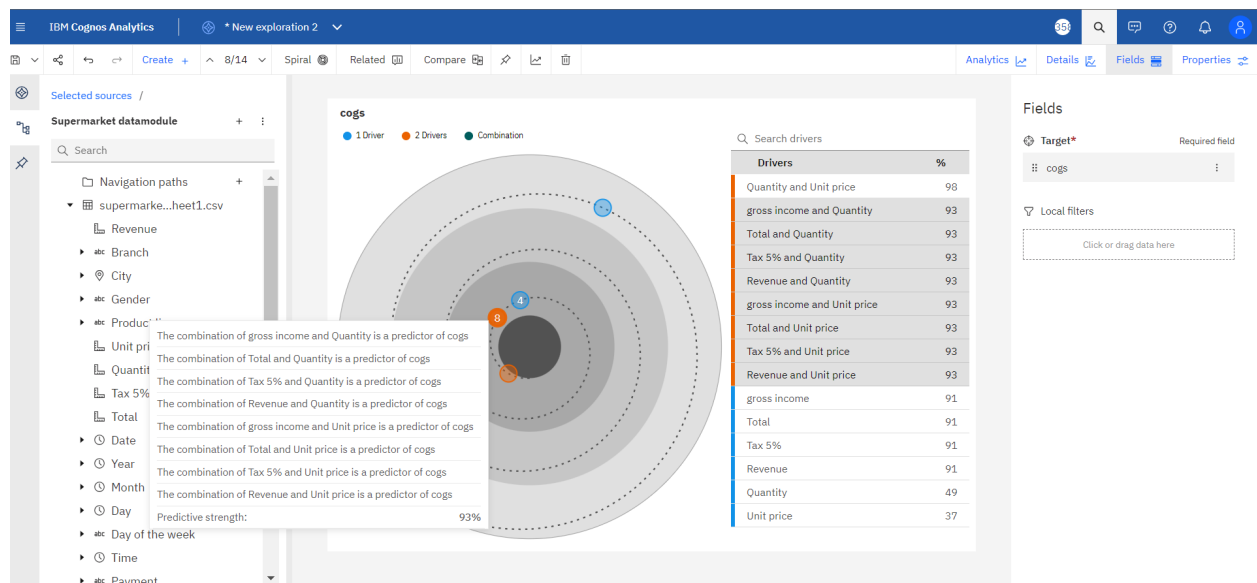
6] STACKED COLUMN



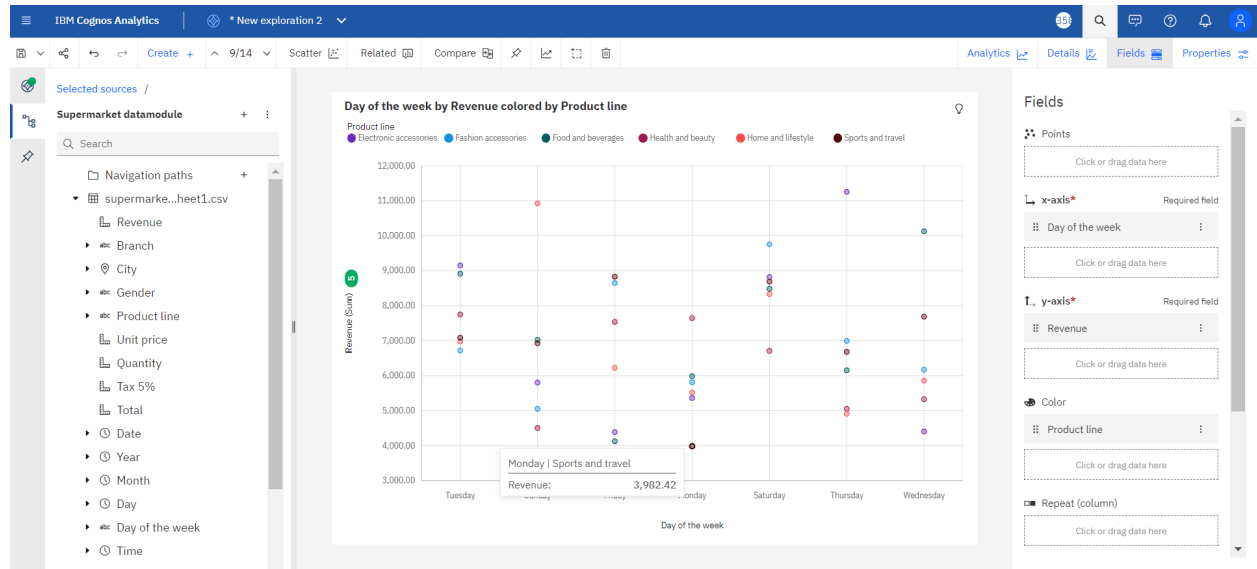
7] LINE AND COLUMN



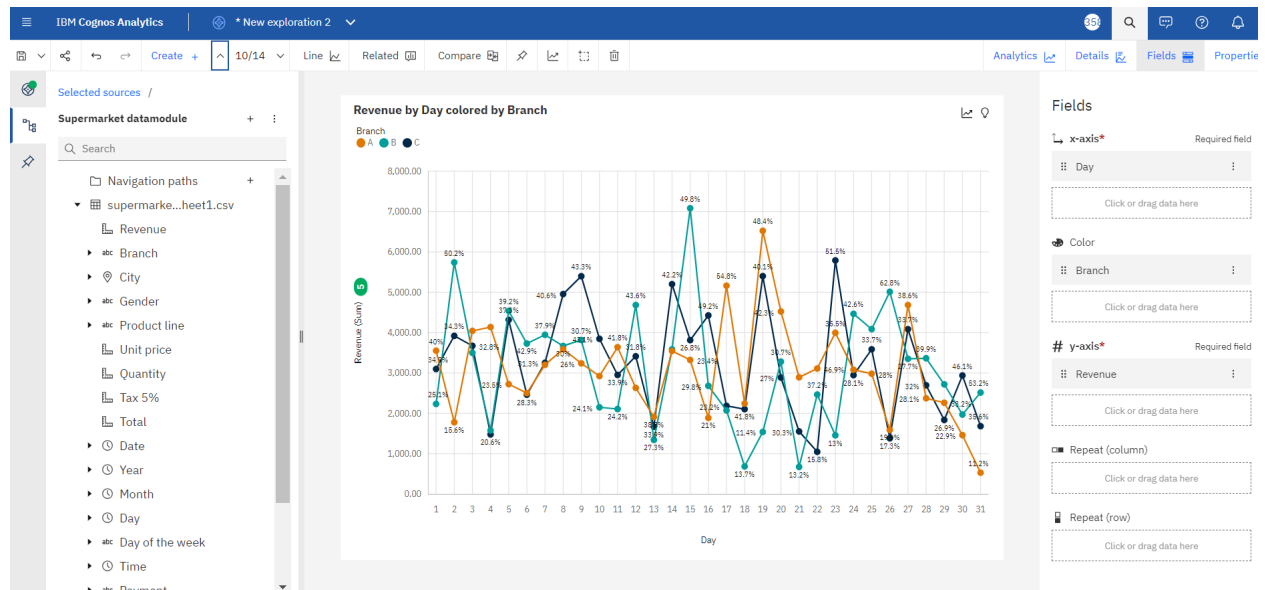
8]SPIRAL PLOT



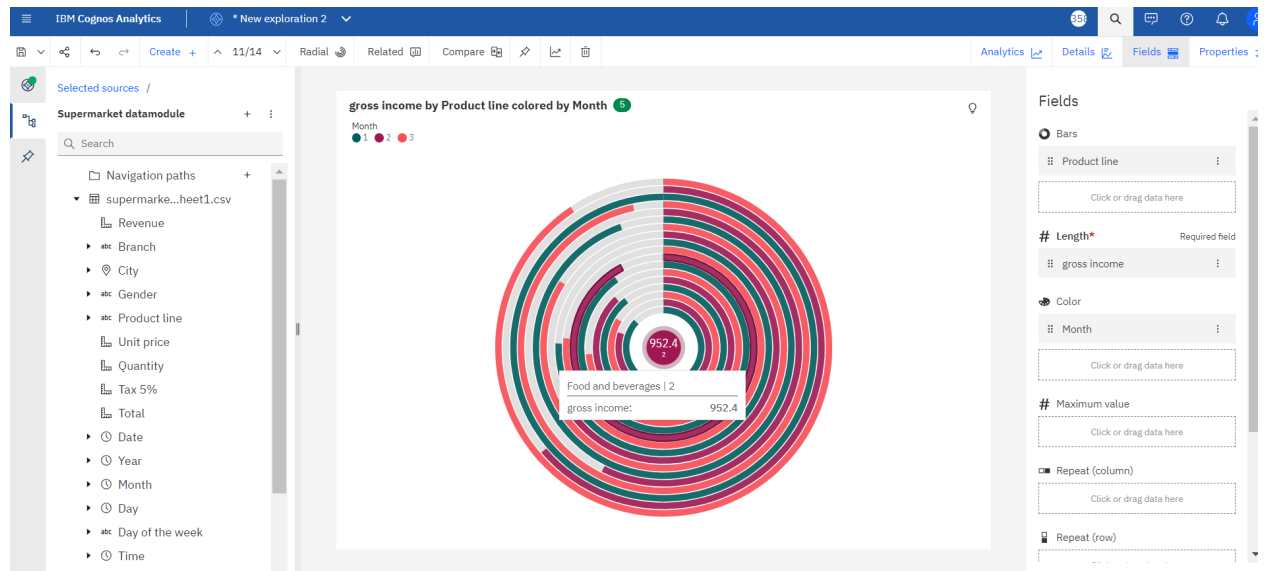
9] SCATTER PLOT



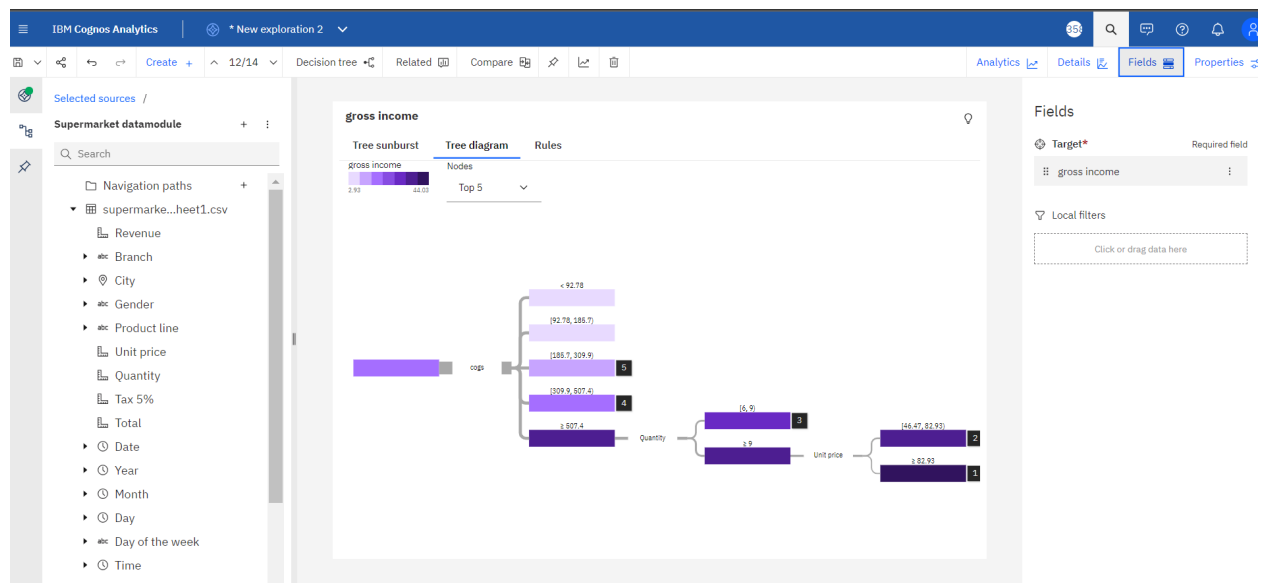
10] LINE PLOT



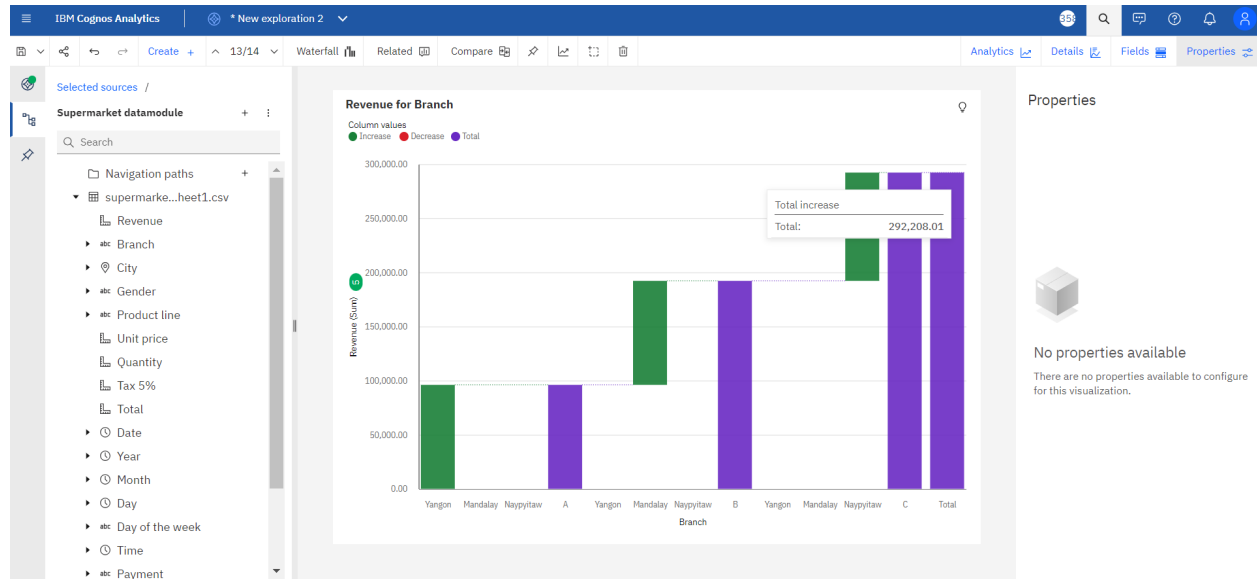
11] RADIAL



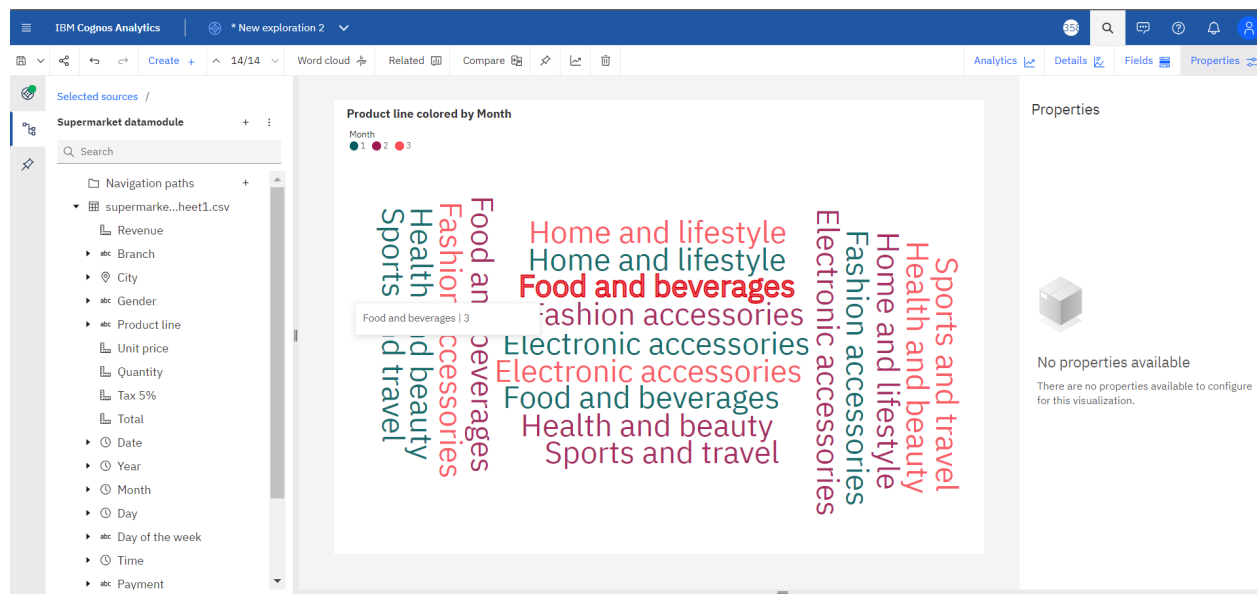
12] DECISION TREE



13] WATERFALL



14]WORD CLOUD



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