

DA ASSIGNMENT – 1

VIT-AP UNIVERSITY

SCOPE

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Deleted unnecessary column:

because all are unique values in invoice id.

TL	Invoice ID	Branch	City	Customer type	Gender	Product line	
1	750-07-0428	A	Yangon	Merch	Female	Health and beauty	
2	216-31-3081	C	Mospytaw	Normal	Female	Electronic access	
3	631-41-3100	A	Yangon	Normal	Male	Home and lifestyle	
4	123-10-1276	A	Yangon	Merch	Male	Health and beauty	
5	353-71-7910	A	Yangon	Normal	Male	Sports and travel	
6	659-14-3026	C	Mospytaw	Normal	Male	Electronic access	
7	355-51-9943	A	Yangon	Merch	Female	Electronic access	
8	315-22-5665	C	Mospytaw	Normal	Female	Home and lifestyle	
9	645-32-9107	A	Yangon	Merch	Female	Health and beauty	
10	692-02-5582	B	Mandalay	Merch	Female	Food and beverage	
11	351-62-0822	B	Mandalay	Merch	Female	Fashion accessories	
12	529-56-7974	B	Mandalay	Merch	Male	Electronic access	
13	385-64-0515	A	Yangon	Normal	Female	Electronic access	

Row Id	Branch	City	Customer type	Gender	Product line	Unit price
1	A	Yangon	Member	Female	Health and beauty	74.69
2	C	Naypyitaw	Normal	Female	Electronic accessories	15.28
3	A	Yangon	Normal	Male	Home and lifestyle	48.93
4	A	Yangon	Member	Male	Health and beauty	58.22
5	A	Yangon	Normal	Male	Sports and travel	86.31
6	C	Naypyitaw	Normal	Male	Electronic accessories	85.39
7	A	Yangon	Member	Female	Electronic accessories	68.84
8	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56
9	A	Yangon	Member	Female	Health and beauty	36.26
10	B	Mandalay	Member	Female	Food and beverages	54.04
11	B	Mandalay	Member	Female	Fashion accessories	34.88
12	B	Mandalay	Member	Male	Electronic accessories	25.51
13	A	Yangon	Normal	Female	Electronic accessories	46.95

Created a data module

Row Id	Invoice ID	Branch	City	Customer type	Gender	Product line
1	750-67-8428	A	Yangon	Member	Female	Health and beauty
2	226-35-3081	C	Naypyitaw	Normal	Female	Electronic accessories
3	631-43-3109	A	Yangon	Normal	Male	Home and lifestyle
4	123-19-1176	A	Yangon	Member	Male	Health and beauty
5	373-73-7910	A	Yangon	Normal	Male	Sports and travel
6	899-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories
7	355-63-6943	A	Yangon	Member	Female	Electronic accessories
8	215-22-9445	C	Naypyitaw	Normal	Female	Home and lifestyle
9	665-22-9167	A	Yangon	Member	Female	Health and beauty
10	682-93-5582	B	Mandalay	Member	Female	Food and beverages
11	355-62-0822	B	Mandalay	Member	Female	Fashion accessories
12	529-96-3976	B	Mandalay	Member	Male	Electronic accessories
13	365-64-0525	A	Yangon	Normal	Female	Electronic accessories

Formatting Date:

By splitting the column into Year, Month, Date, Day

IBM Cognos Analytics Supermarkets ... Data module

Data module

Grid Relationships Custom tables

Search

- supermarkets_data
- Branch
- City
- Customer type
- Gender
- Product line
- Unit price
- Quantity
- Tax 5%
- Total
- Date
- Time
- Payment
- gross profit margin
- gross income

TI	price	Quantity	Tax 5%	Total	Date	Time	Payment
19	7	76.1415	548.9715		2019-01-05	11:08:00	Foodnet
19	8	8.82	80.22		2019-03-08	10:39:00	Cash
13	7	16.2155	340.5203		2019-03-03	13:23:00	Credit card
12	8	23.288	489.648		2019-01-27	20:33:00	Foodnet
11	7	10.2035	634.3783		2019-02-18	18:37:00	Foodnet
19	7	29.8883	827.8363		2019-03-25	18:30:00	Foodnet
14	6	20.652	433.692		2019-03-25	14:36:00	Foodnet
16	10	16.78	772.38		2019-03-24	13:08:00	Foodnet
76	2	1.826	76.146		2019-03-10	17:25:00	Credit card
14	3	8.226	172.746		2019-02-20	13:27:00	Credit card
18	4	2.896	60.816		2019-02-06	18:07:00	Foodnet
11	4	5.302	107.342		2019-01-09	17:03:00	Cash
15	5	11.7375	246.4875		2019-03-12	10:25:00	Foodnet

Split column - Date

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

Year

Month

Day

2019

1

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

IBM Cognos Analytics * Supermarkets... data module

Properties

Data module

Search

- supermarket_hes1.csv
 - Row ID
 - Branch
 - City
 - Customer type
 - Gender
 - Product line
 - Unit price
 - Quantity
 - Tax 5%
 - Total
 - Date
 - Year
 - Month
 - Day
 - Day of the week
 - Time

Grid Relationships Custom tables

Ti	Date	Year	Month	Day	Day of the week	Time	Ps
1	2019-01-05	2019	1	5	Saturday	11:08:00	
2	2019-03-08	2019	3	8	Friday	10:29:00	
3	2019-03-03	2019	3	3	Sunday	11:23:00	
4	2019-01-27	2019	1	27	Sunday	20:11:00	
5	2019-02-08	2019	2	8	Friday	10:37:00	
6	2019-02-25	2019	2	25	Monday	18:30:00	
7	2019-02-25	2019	2	25	Monday	14:36:00	
8	2019-02-24	2019	2	24	Sunday	11:08:00	
9	2019-01-10	2019	1	10	Thursday	17:15:00	
10	2019-02-20	2019	2	20	Wednesday	13:27:00	
11	2019-02-06	2019	2	6	Wednesday	18:07:00	
12	2019-03-09	2019	3	9	Saturday	17:03:00	
13	2019-02-12	2019	2	12	Tuesday	18:25:00	

Formatting data: (decimal point)

IBM Cognos Analytics * Supermarkets... data module

Properties

Data module

Search

- supermarket_hes1.csv
 - Row ID
 - Branch
 - City
 - Customer type
 - Gender
 - Product line
 - Unit price
 - Quantity
 - Tax 5%
 - Total
 - Date
 - Year
 - Month
 - Day
 - Day of the week
 - Time

Grid Relationships Custom tables

Ti	Unit price	Quantity	Tax 5%	Total	Date	Year	Month
1	74.69	7	36.1415	548.9735	2019-01-05	2019	1
2	15.28	5	1.03	80.22	2019-03-08	2019	3
3	46.31	7	16.2155	340.5255	2019-03-03	2019	3
4	58.23	8	23.288	489.088	2019-01-27	2019	1
5	80.31	7	30.2065	634.3765	2019-02-08	2019	2
6	85.39	7	29.8865	627.6365	2019-02-25	2019	2
7	68.84	6	20.662	431.692	2019-02-25	2019	2
8	73.56	10	36.78	772.38	2019-02-24	2019	2
9	36.26	2	3.626	76.146	2019-01-10	2019	1
10	54.24	3	8.226	172.546	2019-02-20	2019	2
11	14.48	4	3.996	60.816	2019-02-06	2019	2
12	25.51	4	5.102	107.142	2019-03-09	2019	3
13	46.95	5	11.7375	246.4875	2019-02-12	2019	2

IBM Cognos Analytics

* Supermarkets ... data module

Properties

Data module

Search

- supermarket_dept1.csv
 - Row ID
 - Branch
 - City
 - Customer type
 - Gender
 - Product line
 - Unit price
 - Quantity
 - Tax 5%
 - Total
 - Date
 - Year
 - Month
 - Day
 - Day of the week
 - Time

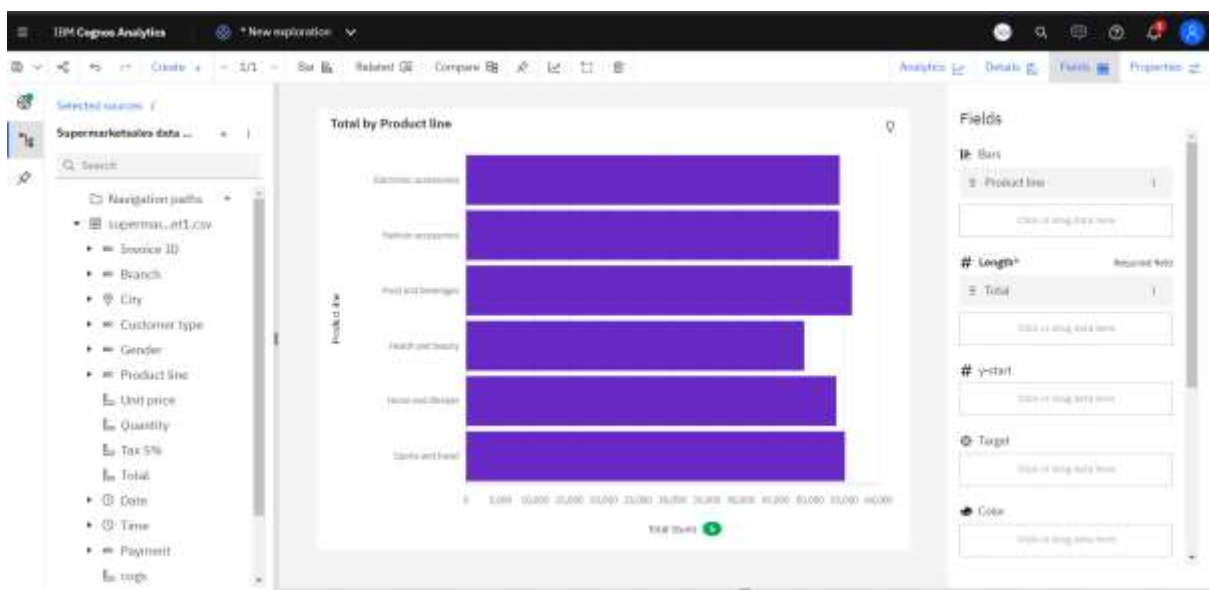
Grid

Relationships

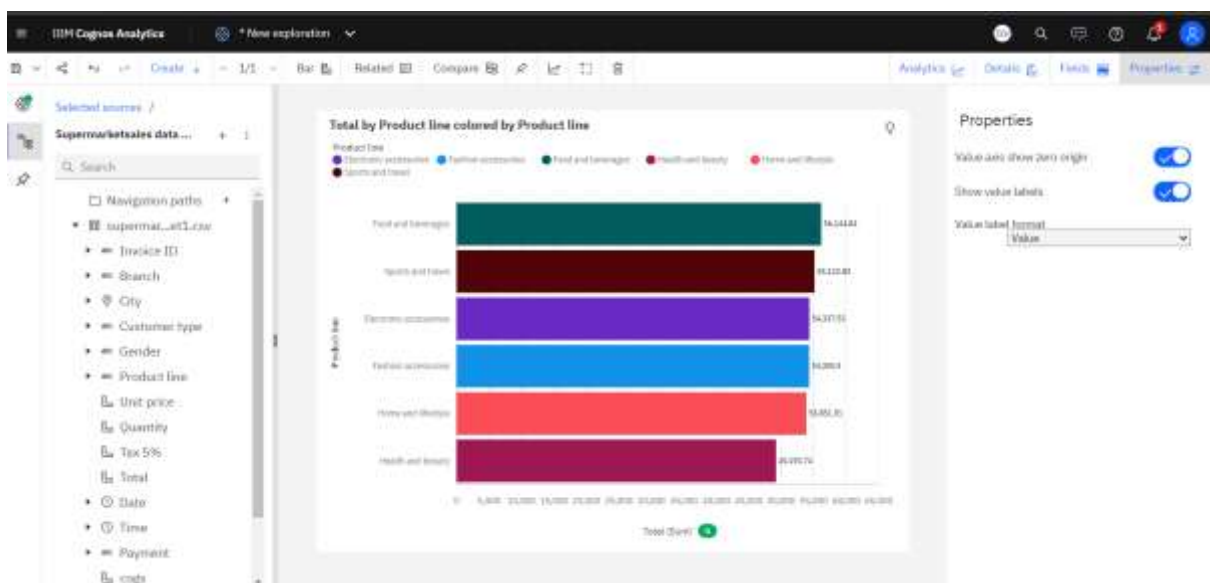
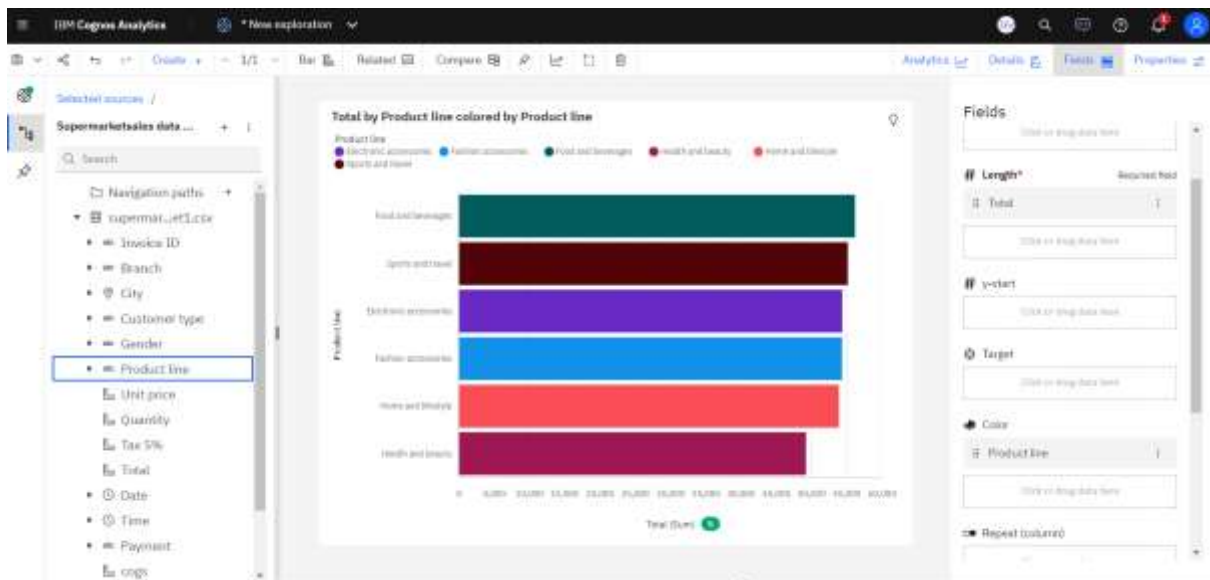
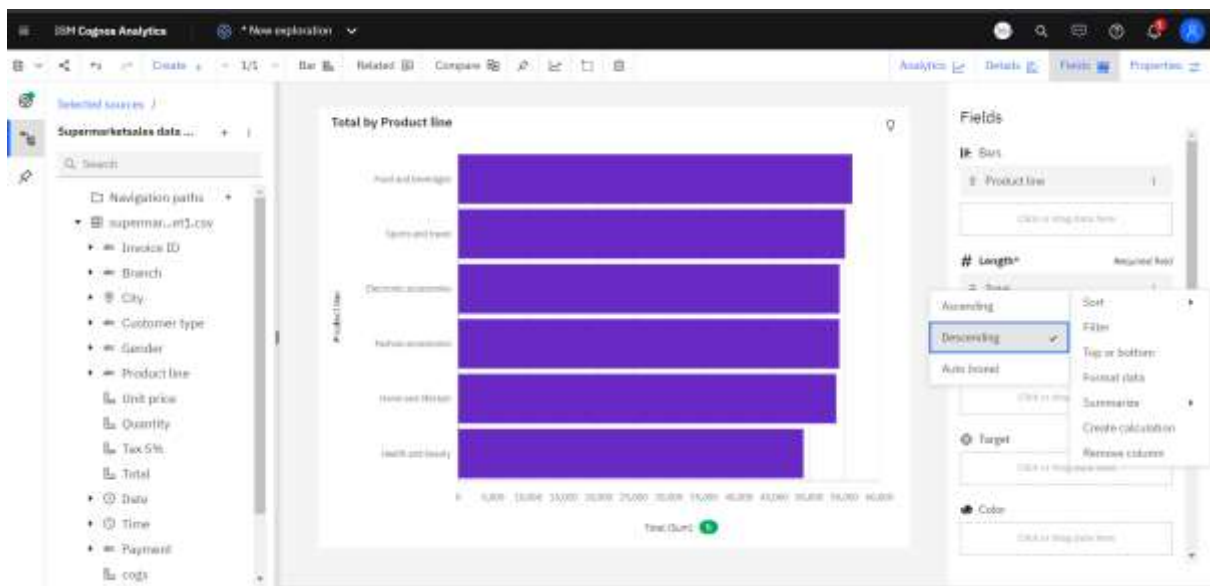
Custom tables

T1	Unit price	Quantity	Tax 5%	Total	Date	Year	Month
78.69	7	26.14	548.9715	2019-01-05	2019	1	
15.28	5	3.82	80.22	2019-01-08	2019	3	
46.33	7	16.22	340.5259	2019-01-01	2019	3	
58.22	8	23.29	489.049	2019-01-27	2019	1	
86.31	7	38.21	634.3785	2019-02-06	2019	2	
85.39	7	29.89	627.6165	2019-01-25	2019	3	
68.84	6	33.65	433.682	2019-02-29	2019	2	
73.56	10	36.78	772.38	2019-02-24	2019	2	
36.26	2	3.63	76.546	2019-01-10	2019	1	
54.84	3	8.23	172.746	2019-02-20	2019	2	
14.48	4	2.91	60.816	2019-02-06	2019	2	
25.51	4	5.33	107.142	2019-03-09	2019	3	
46.96	5	11.74	246.4075	2019-02-12	2019	2	

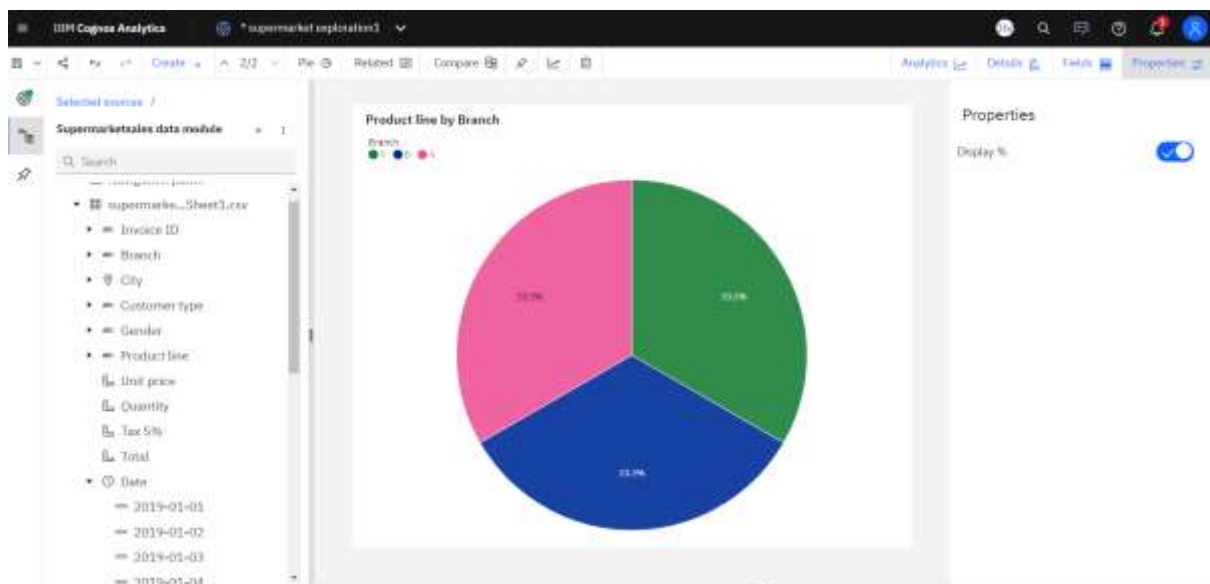
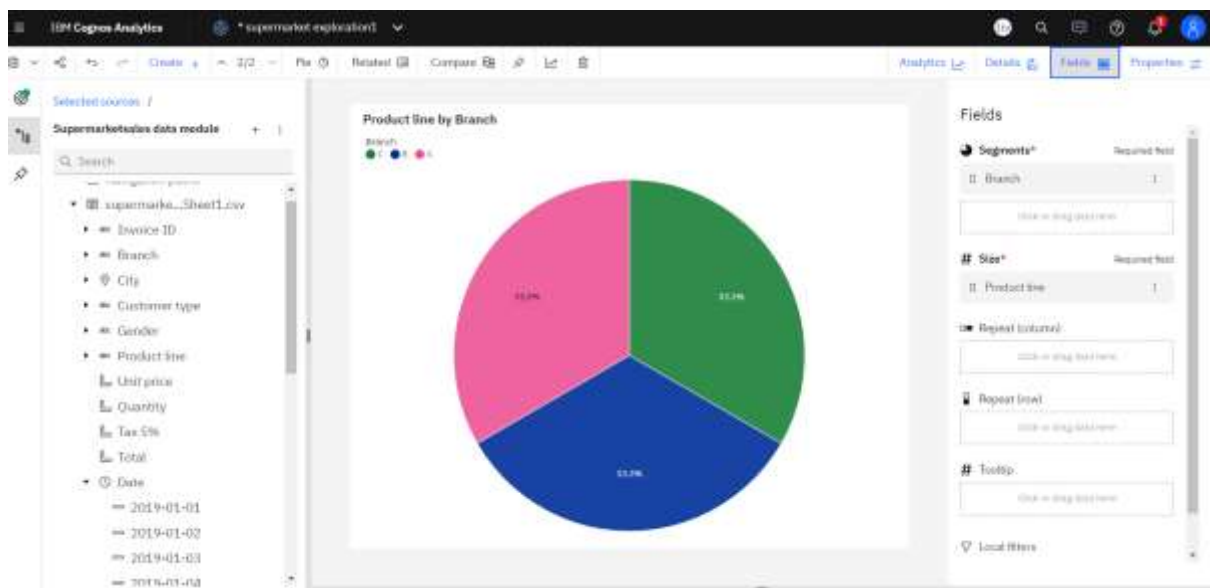
Bar Plot:



Highest Sales in Product Line sorting in Descending :
Food and Beverages

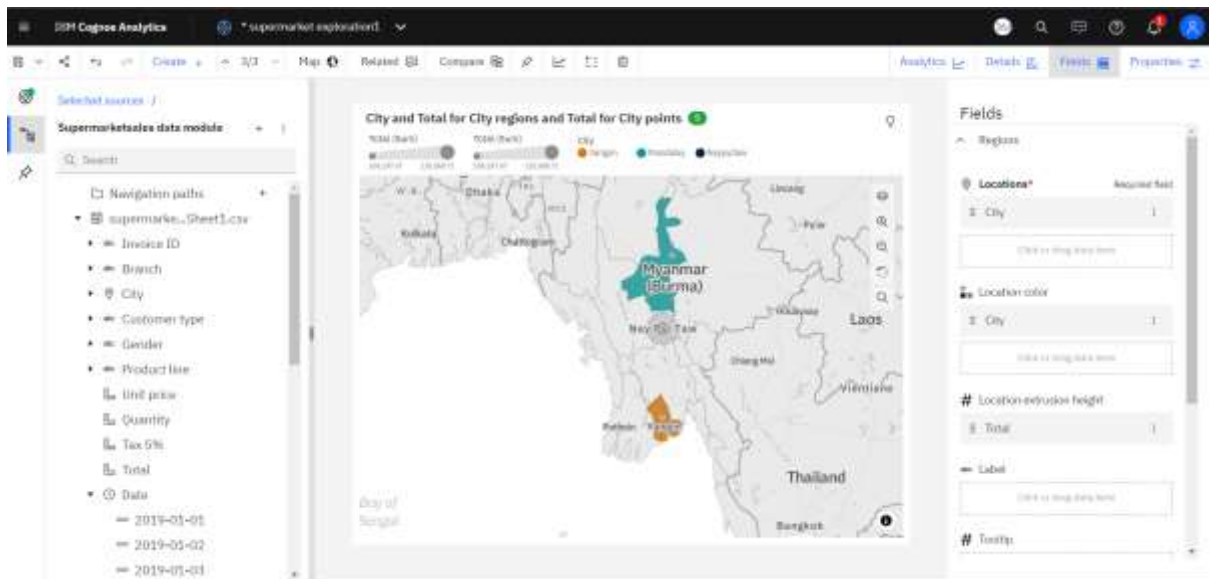


Pie Chart:



Map Plot:

Cities according to Product line (Sales)



Bubble Sort:

Product line in a year (2019)

