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Data Analytics Assignment-1

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

1)Deleting unnecessary columns(Invoice ID): Right click on column and choose remove option

Before delete

The screenshot shows the Cognos Analytics interface. On the left, the 'Data module' pane lists various fields including Row Id, Invoice ID, Branch, City, Customer type, Gender, Product line, Unit price, Quantity, Tax 5%, Total, Date, Time, Payment, cogs, gross margin percentage, gross income, and Rating. The main grid displays 14 rows of data. The 'Invoice ID' column is highlighted in blue.

Row Id	Invoice ID	Branch	City	Customer type	Gender	Product line
1	750-67-8428	A	Yangon	Member	Female	Health and beauty
2	226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories
3	631-41-3108	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	699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories
7	355-53-5943	A	Yangon	Member	Female	Electronic accessories
8	315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle
9	665-32-9167	A	Yangon	Member	Female	Health and beauty
10	692-92-5582	B	Mandalay	Member	Female	Food and beverages
11	351-62-0822	B	Mandalay	Member	Female	Fashion accessories
12	529-56-3974	B	Mandalay	Member	Male	Electronic accessories
13	365-64-0515	A	Yangon	Normal	Female	Electronic accessories
14	752-56-7699	A	Yangon	Normal	Male	Food and beverages

After delete

The screenshot shows the Cognos Analytics interface after deleting the 'Invoice ID' column. The 'Data module' pane on the left now shows 'supermarket1.csv' as the selected data source. The main grid displays the same 14 rows of data, but with one fewer column. The 'Unit price' column is now visible at the end of the row.

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	46.33
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	54.84
11	B	Mandalay	Member	Female	Fashion accessories	14.48
12	B	Mandalay	Member	Male	Electronic accessories	25.51
13	A	Yangon	Normal	Female	Electronic accessories	46.95
14	A	Yangon	Normal	Male	Food and beverages	43.19

2) Splitting date into four different columns(year,month,date,day)

Split column - Date

Review new columns. You can change the column names, and deselect the columns that you don't need.

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
2019-01-22	2019	1	22	Tuesday
2019-01-23	2019	1	23	Wednesday
2019-02-23	2019	2	23	Saturday
2019-02-09	2019	2	9	Saturday

Previous Cancel OK

3) After formatting total column into two decimal places

Data format

Column: Total

Format type: Number

Number of decimal places: 2

Negative sign symbol: Default

Use thousands separator: Default

Negative sign position: Default

Missing value characters: <empty>

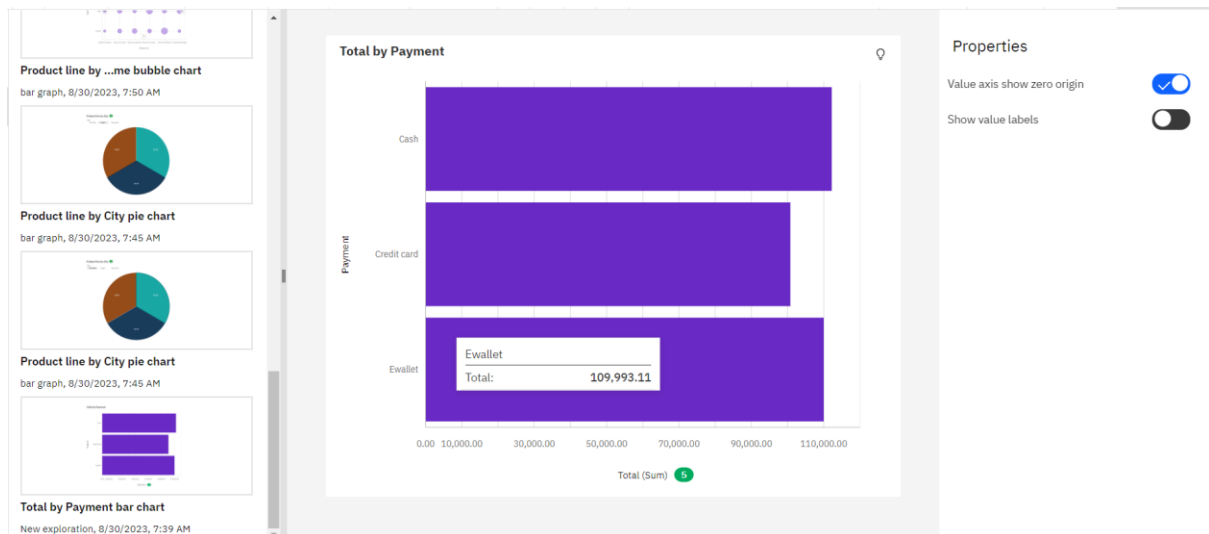
Advanced options Reset properties

Cancel OK

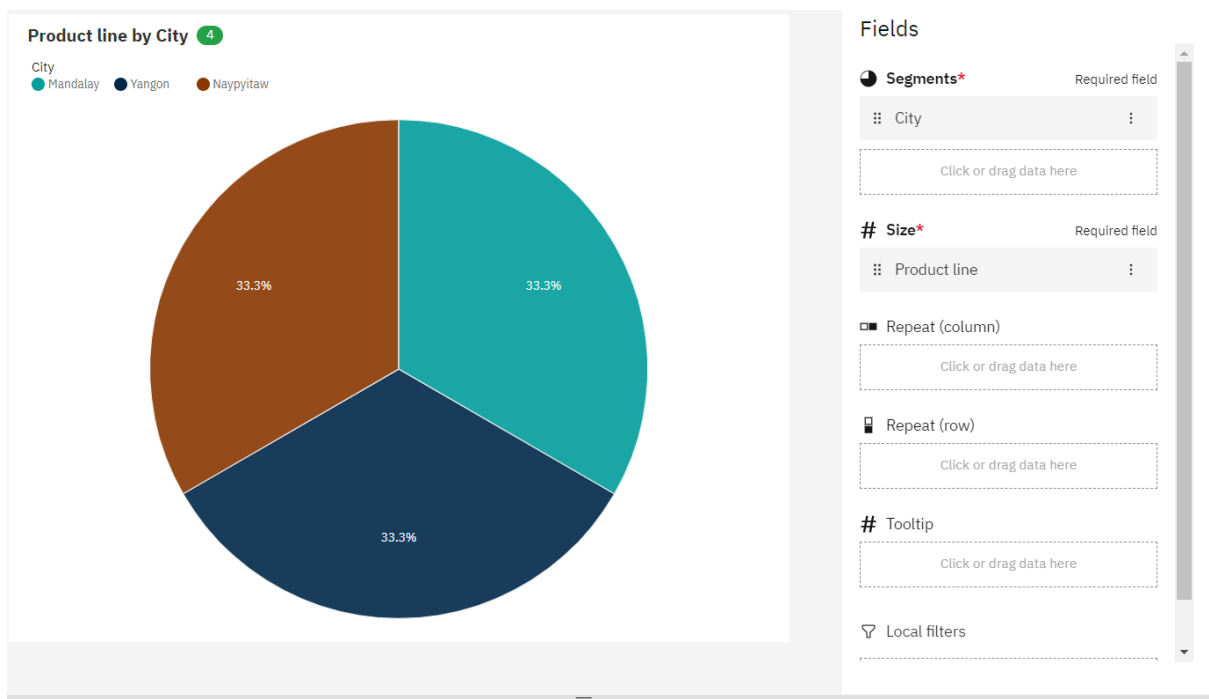
Tax 5%	Total	Date	Year	Month	Day	Day of the week
26.1415	548.97	2019-01-05	2019	1	5	Saturday
3.82	80.22	2019-03-08	2019	3	8	Friday
16.2155	340.53	2019-03-03	2019	3	3	Sunday
23.288	489.05	2019-01-27	2019	1	27	Sunday
30.2085	634.38	2019-02-08	2019	2	8	Friday
29.8865	627.62	2019-03-25	2019	3	25	Monday
20.652	433.69	2019-02-25	2019	2	25	Monday
36.78	772.38	2019-02-24	2019	2	24	Sunday
3.626	76.15	2019-01-10	2019	1	10	Thursday
8.226	172.75	2019-02-20	2019	2	20	Wednesday
2.896	60.82	2019-02-06	2019	2	6	Wednesday
5.102	107.14	2019-03-09	2019	3	9	Saturday
11.7375	246.49	2019-02-12	2019	2	12	Tuesday
21.595	453.50	2019-02-07	2019	2	7	Thursday

4) Exploring and visualisation of data

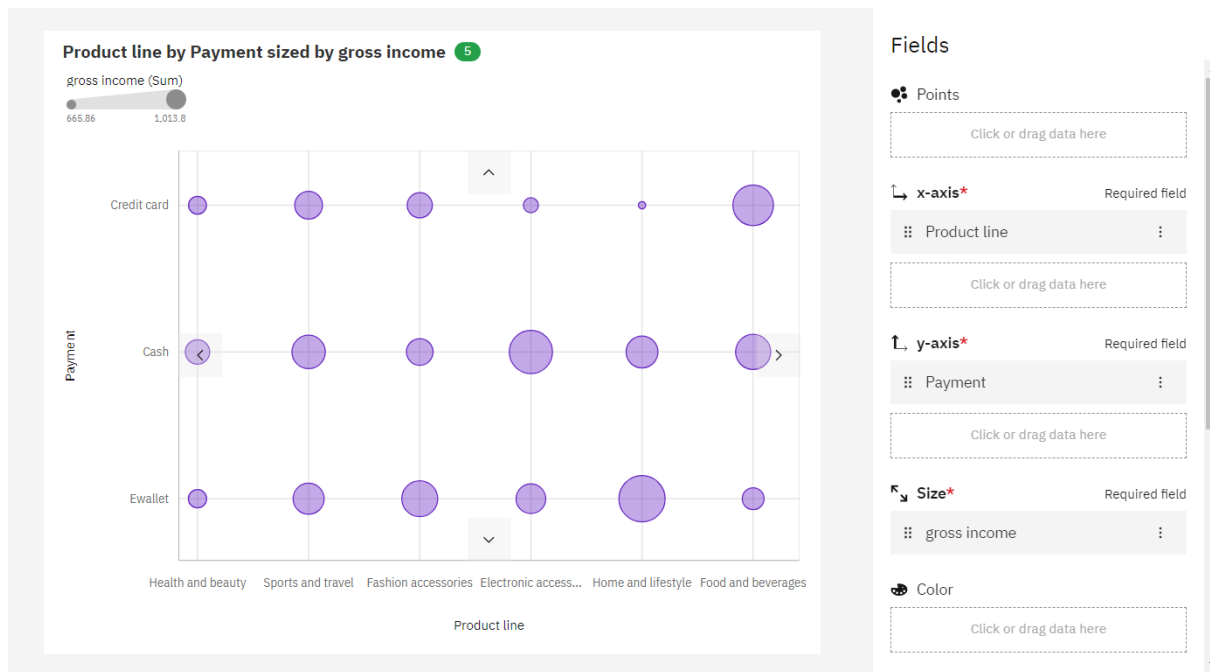
i) bar graph



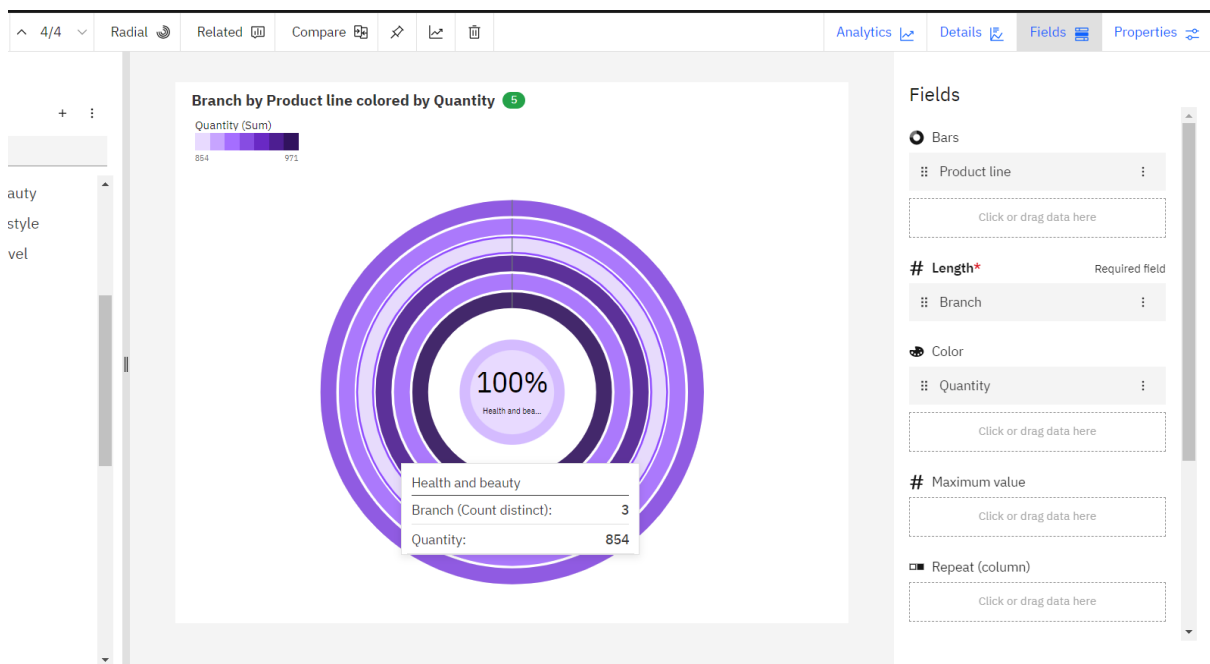
ii) Pie chart



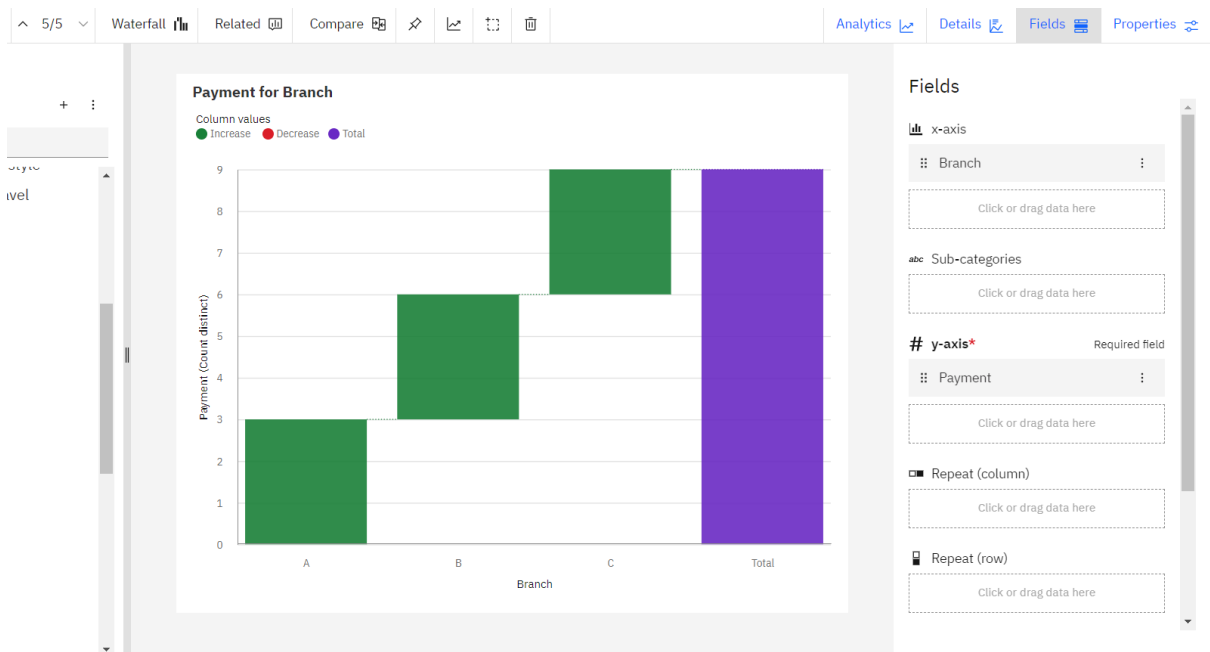
iii)Bubble chart



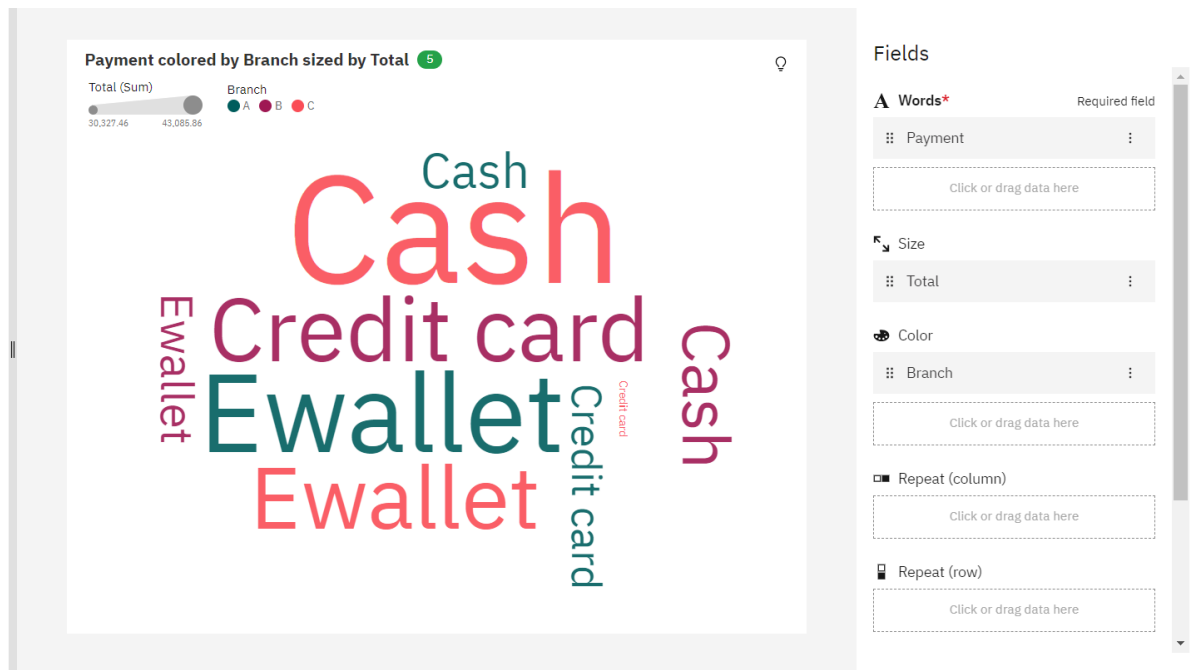
iv)Radial chart



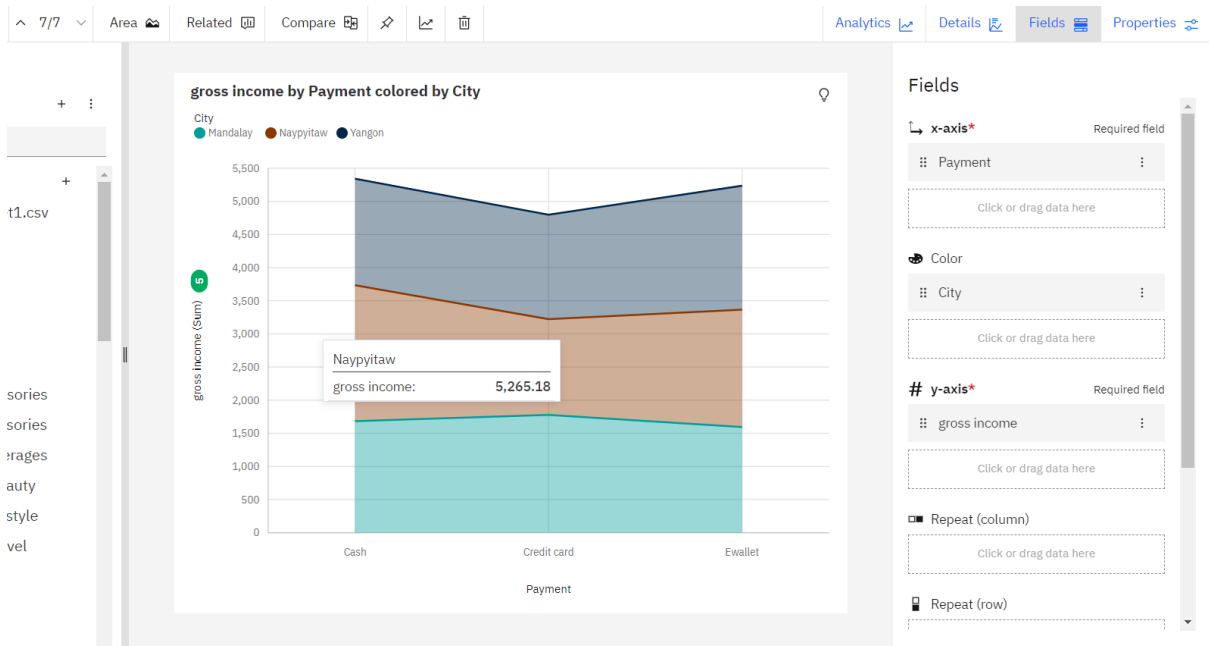
v)Waterfall chart



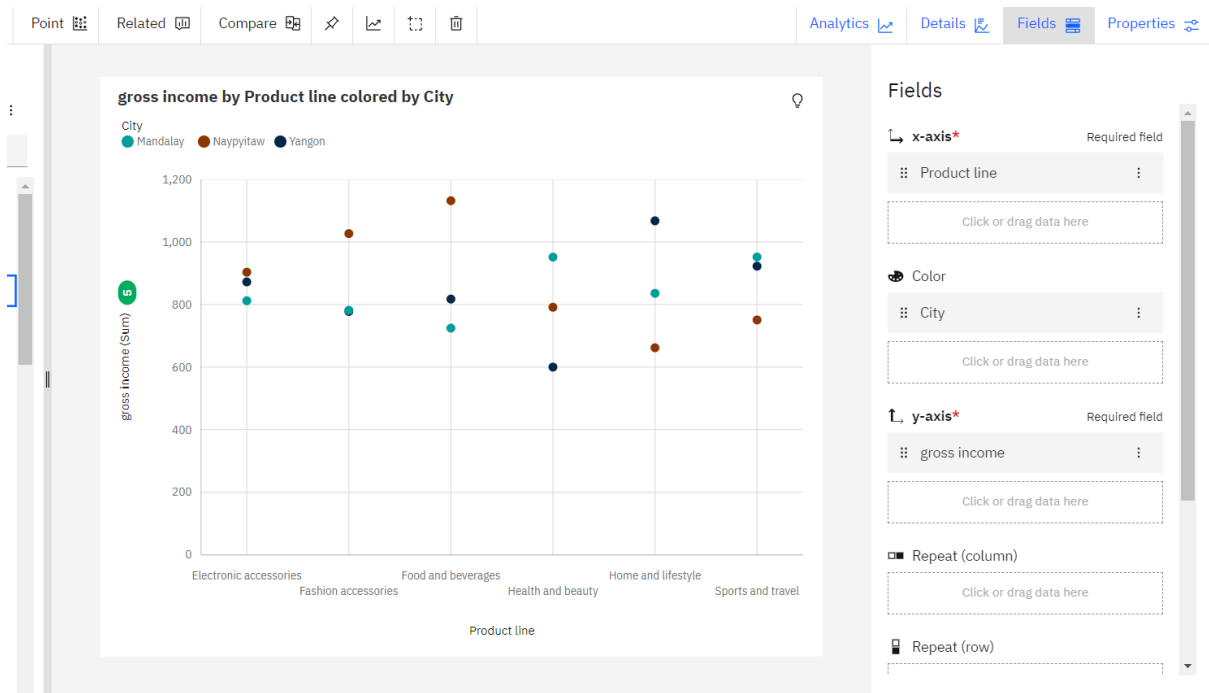
Vi)Word Cloud



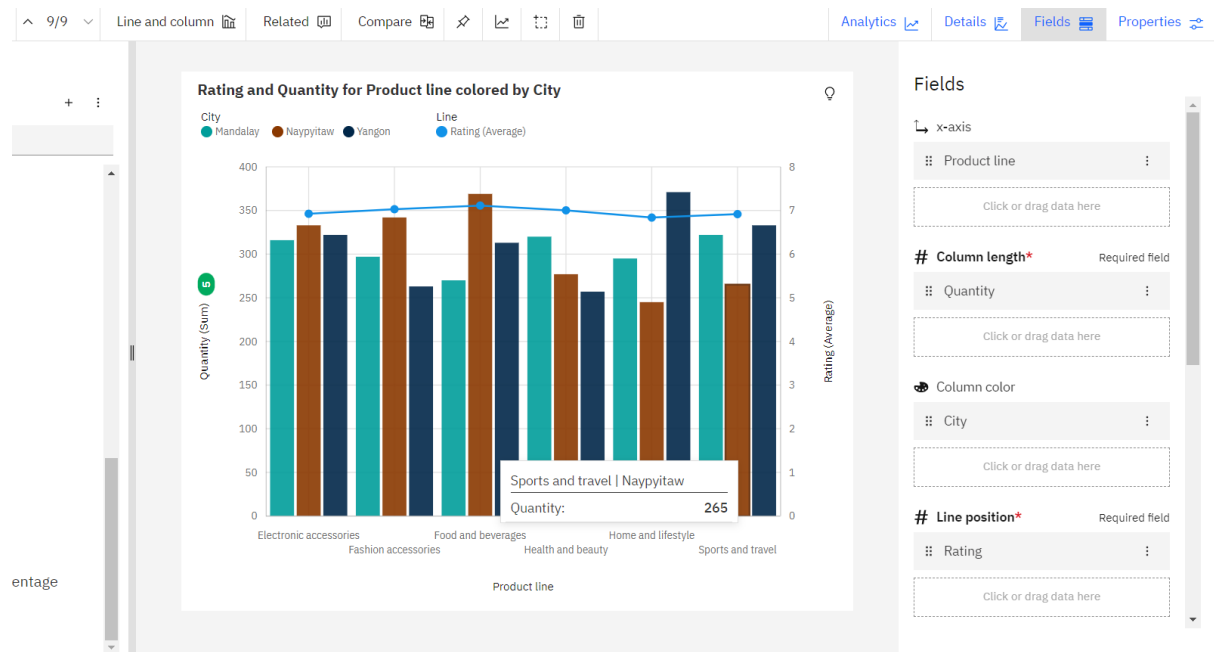
Vii)Area chart



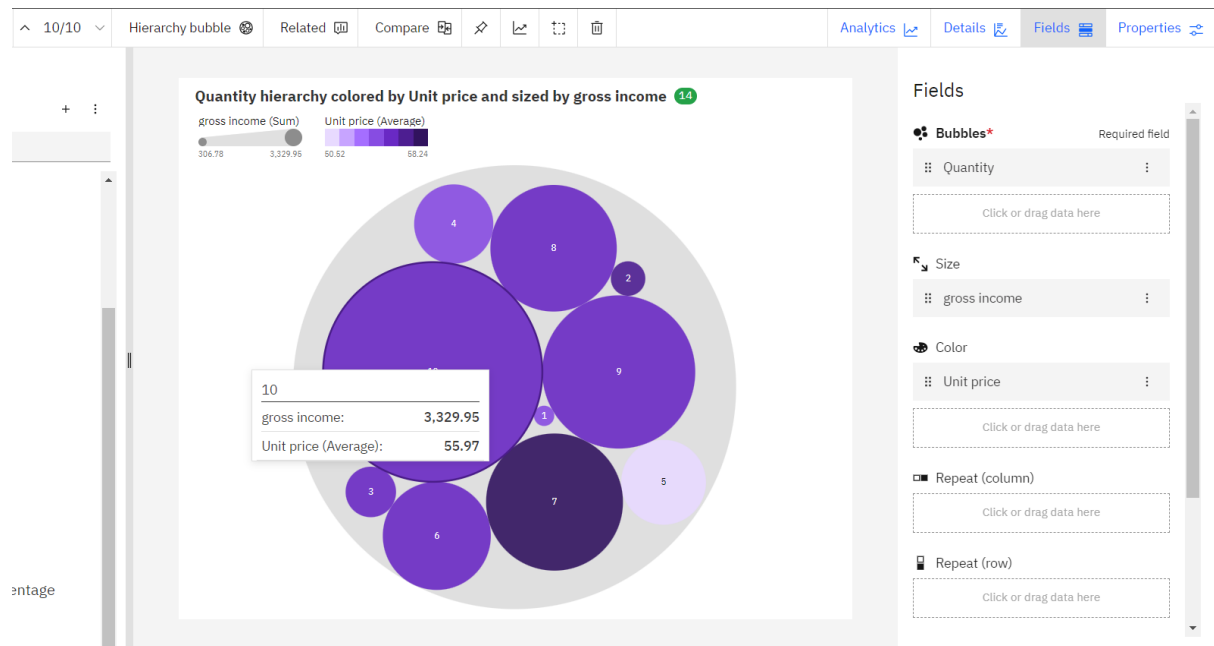
Viii)Point chart



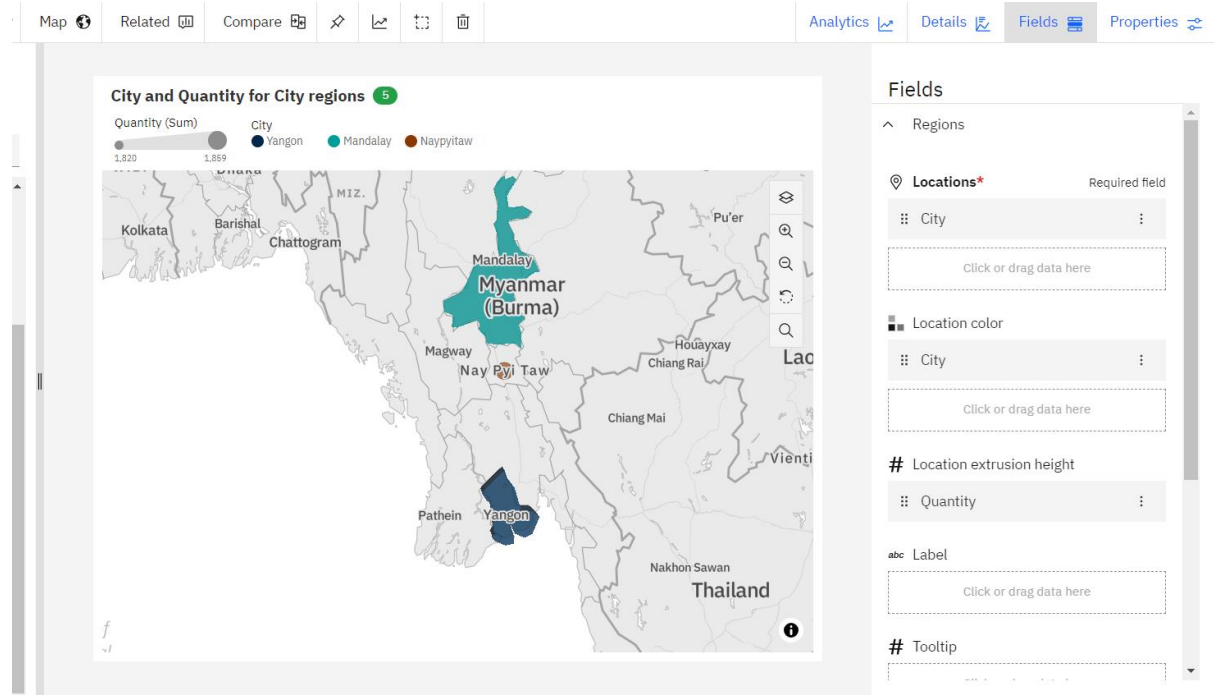
iX)Line and Column



X)Hierarchy bubble



Xi)Map chart



Xii)crosstab

12/12 | Crosstab | Related | Compare | Analytics | Details | Fields | **Properties**

Total for Branch and Quantity 10

Total	A	B	C	Summary
1	2,029.44	2,010.62	2,402.28	6,442.35
2	3,308.05	3,858.73	3,828.03	10,994.80
3	6,254.99	6,079.97	3,746.74	16,081.70
4	8,551.58	8,277.28	8,419.07	25,247.92
5	11,637.99	8,163.96	7,249.46	27,051.41
6	11,642.78	13,197.62	9,614.81	34,455.20
7	14,186.24	12,079.73	17,398.70	43,664.66
8	12,925.42	14,078.82	13,312.07	40,316.30
9	15,631.06	18,345.76	14,806.64	48,783.45
10	20,032.85	20,105.19	29,790.91	69,928.95
Summary	106,200.37	106,197.67	110,568.71	322,966.75

Properties

Back Conditional color: Total

Color palette

Color by

Total

Scale

Percentage

Rules

If value is

Rule

Select a rule

Value

100%

AND