

Assignment-1

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Course: Data Analytics with IBM cognos Analytics

- **Assignment**
 - **Upload the dataset to Cognos Analytics, delete the unnecessary columns, create a data module, explore and visualize the dataset.**
- Initially, we upload the supermarket Excel sheet onto the IBM website. Subsequently, various operations are performed within the data module, including the addition or removal of columns. In this context, columns pertaining to time are deemed unnecessary, as they do not contribute to information or aid in visualization. Consequently, the date field is dissected into distinct components such as year, date, month, and day of the week.

➤ Supermarket data module:

IBM Cognos Analytics Super Market data module

Data module

Search

- Super Market data module
 - Navigation paths
 - supermark...heet1.csv
 - # Row Id
 - Invoice ID
 - Branch
 - City
 - Customer type
 - Gender
 - Product line
 - Unit price
 - Quantity
 - Tax 5%
 - Total
 - Date
 - Year
 - Month
 - Day
 - Day of the week

Grid Relationships Custom tables

T1	Row Id	Invoice ID	Branch	City	Customer type	Gender	Product line
	1	750-67-8428	A	Yangon	Member	Female	Health and be
	2	226-31-3081	C	Naypyitaw	Normal	Female	Electronic acco
	3	631-41-3108	A	Yangon	Normal	Male	Home and lifes
	4	123-19-1176	A	Yangon	Member	Male	Health and be
	5	373-73-7910	A	Yangon	Normal	Male	Sports and tra
	6	699-14-3026	C	Naypyitaw	Normal	Male	Electronic acco
	7	355-53-5943	A	Yangon	Member	Female	Electronic acco
	8	315-22-5665	C	Naypyitaw	Normal	Female	Home and lifes
	9	665-32-9167	A	Yangon	Member	Female	Health and be
	10	692-92-5582	B	Mandalay	Member	Female	Food and beve
	11	351-62-0822	B	Mandalay	Member	Female	Fashion access
	12	529-56-3974	B	Mandalay	Member	Male	Electronic acco
	13	365-64-0515	A	Yangon	Normal	Female	Electronic acco
	14	252-56-2699	A	Yangon	Normal	Male	Food and beve
	15	879-34-3010	A	Yangon	Normal	Female	Health and be

Data module

Search

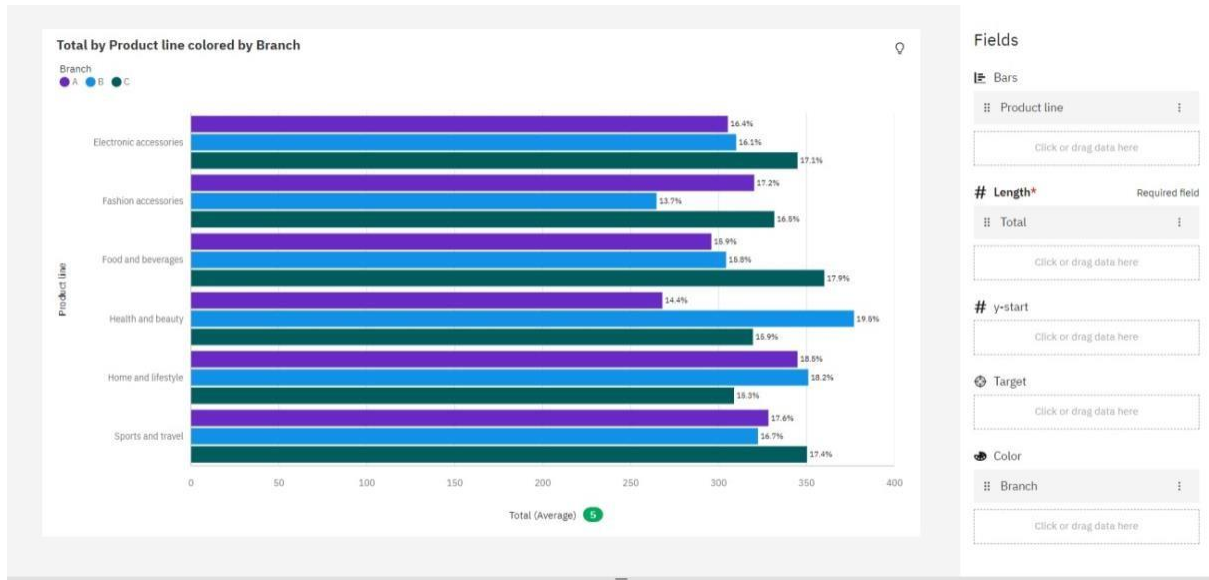
- Branch
- City
- Customer type
- Gender
- Product line
- Unit price
- Quantity
- Tax 5%
- Total
- Date
- Year
- Month
- Day
- Day of the week
- Payment
- cogs
- gross ma...centage
- gross income

Grid Relationships Custom tables

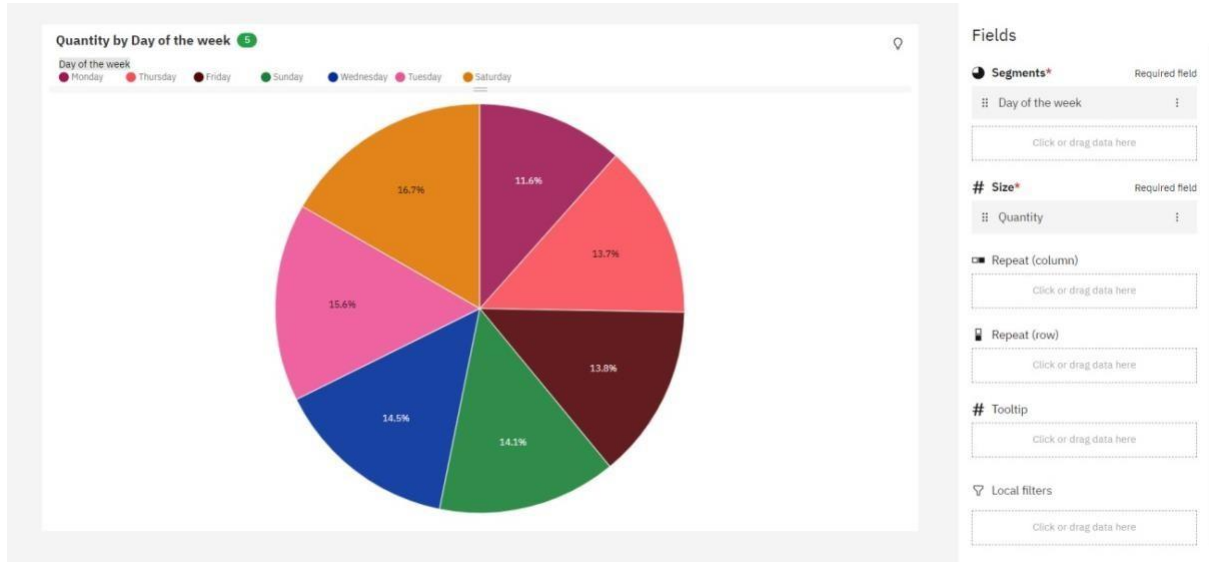
T1	Date	Year	Month	Day	Day of the week	Payment	cogs
	2019-01-05	2019	1	5	Saturday	Ewallet	522.83
	2019-03-08	2019	3	8	Friday	Cash	76.4
	2019-03-03	2019	3	3	Sunday	Credit card	324.31
	2019-01-27	2019	1	27	Sunday	Ewallet	465.76
	2019-02-08	2019	2	8	Friday	Ewallet	604.17
	2019-03-25	2019	3	25	Monday	Ewallet	597.73
	2019-02-25	2019	2	25	Monday	Ewallet	413.04
	2019-02-24	2019	2	24	Sunday	Ewallet	735.6
	2019-01-10	2019	1	10	Thursday	Credit card	72.52
	2019-02-20	2019	2	20	Wednesday	Credit card	164.52
	2019-02-06	2019	2	6	Wednesday	Ewallet	57.92
	2019-03-09	2019	3	9	Saturday	Cash	102.04
	2019-02-12	2019	2	12	Tuesday	Ewallet	234.75
	2019-02-07	2019	2	7	Thursday	Ewallet	431.9
	2019-03-29	2019	3	29	Friday	Cash	713.8

- Explore and Visualization:

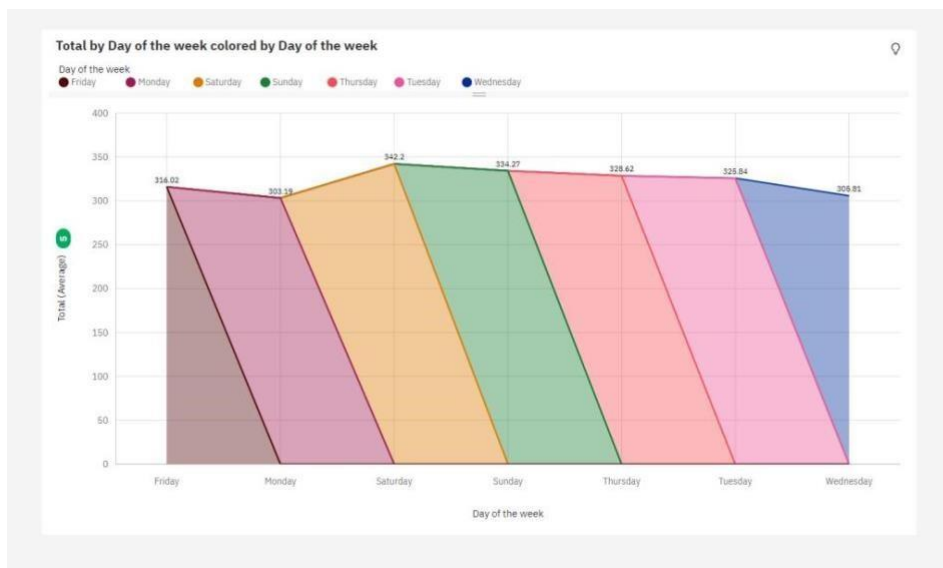
- Bar Chart:



- Pie Chart:



➤ Area Chart:



Fields

x-axis* Required field

Day of the week

Click or drag data here

Color

Day of the week

Click or drag data here

y-axis* Required field

Total

Click or drag data here

Repeat (column)

Click or drag data here

Repeat (row)

Click or drag data here

➤ Bubble Chart:



Fields

Points

gross income

Click or drag data here

x-axis* Required field

Year

Click or drag data here

y-axis* Required field

cogs

Click or drag data here

Size* Required field

cogs

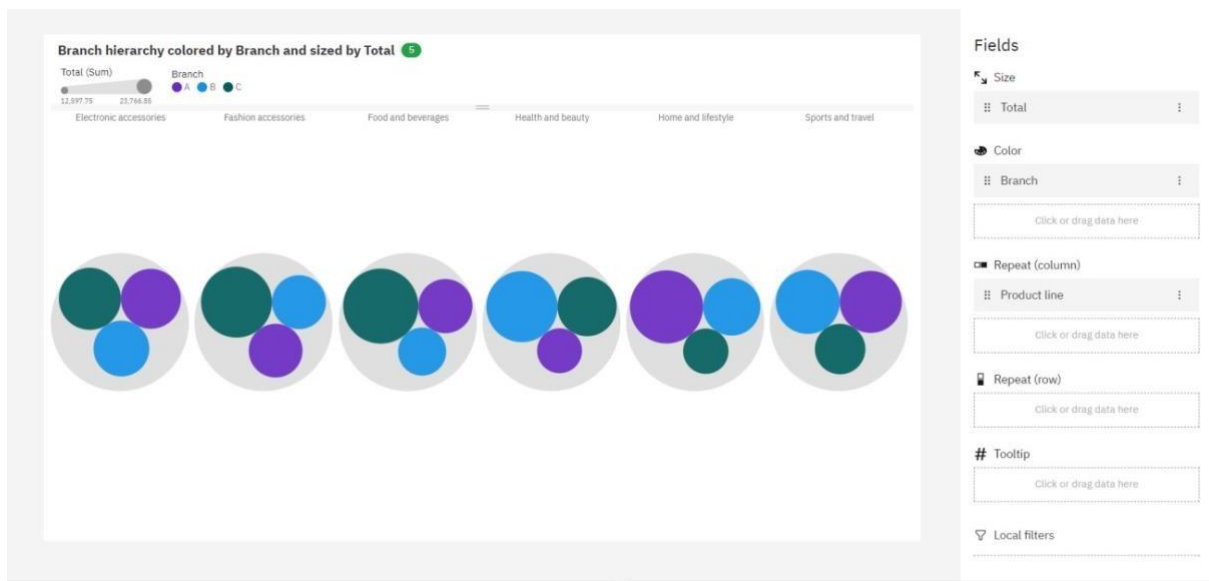
Click or drag data here

Color

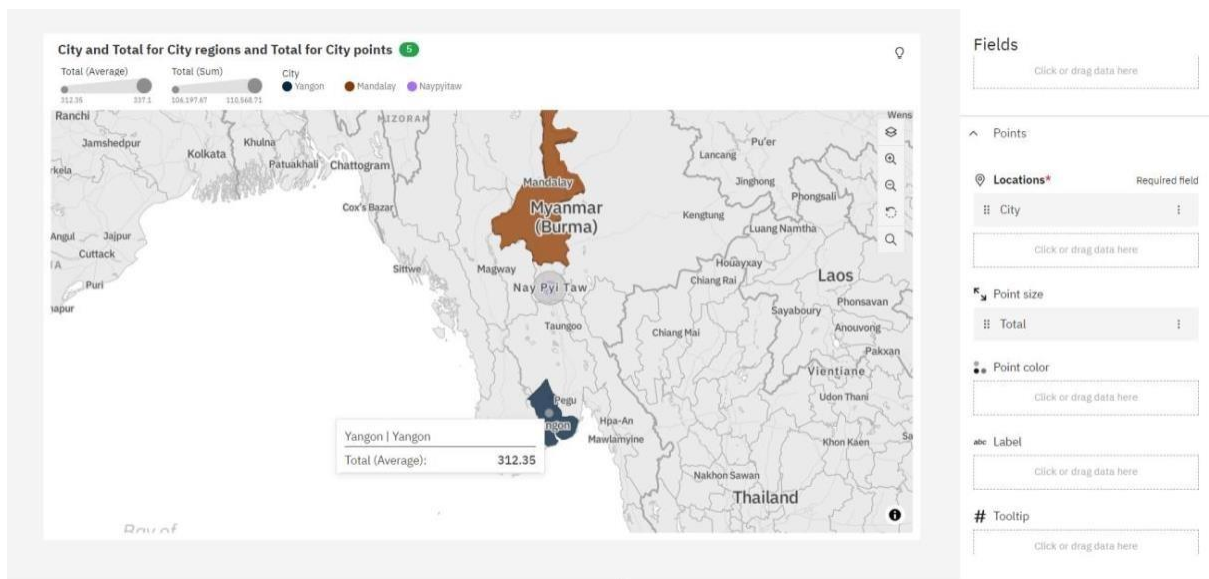
Branch

Click or drag data here

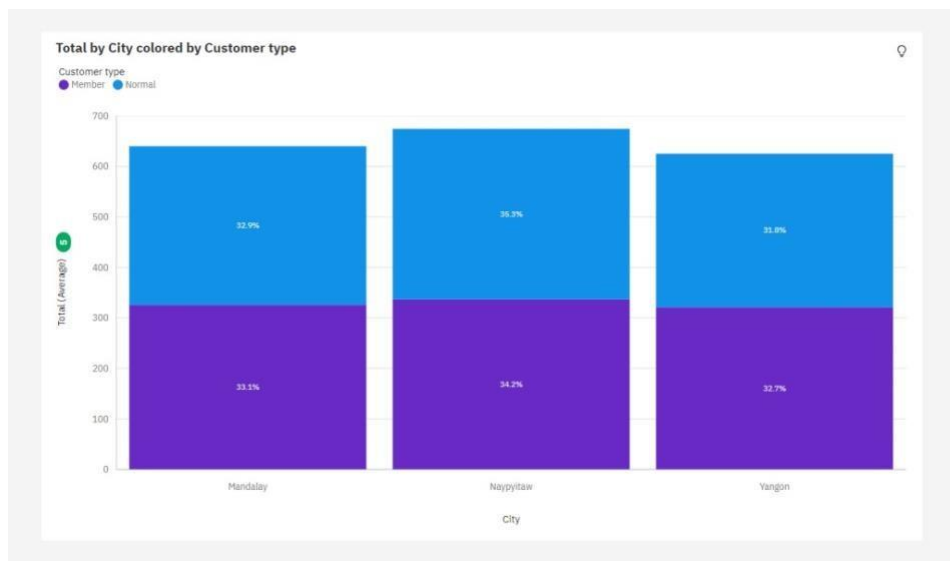
➤ Heirarichal Bubble Chart:



➤ Map Chart:



➤ Stacked Column Chart:



Fields

Bars

City

Click or drag data here

Length* Required field

Total

Click or drag data here

Color

Customer type

Click or drag data here

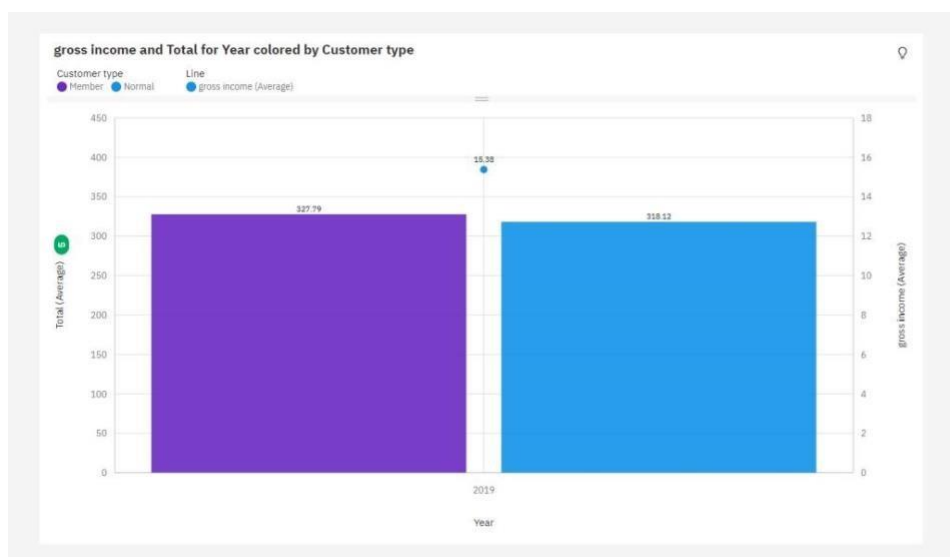
Repeat (column)

Click or drag data here

Repeat (row)

Click or drag data here

➤ Line and Column Chart:



Fields

x-axis

Year

Click or drag data here

Column length* Required field

Total

Click or drag data here

Column color

Customer type

Click or drag data here

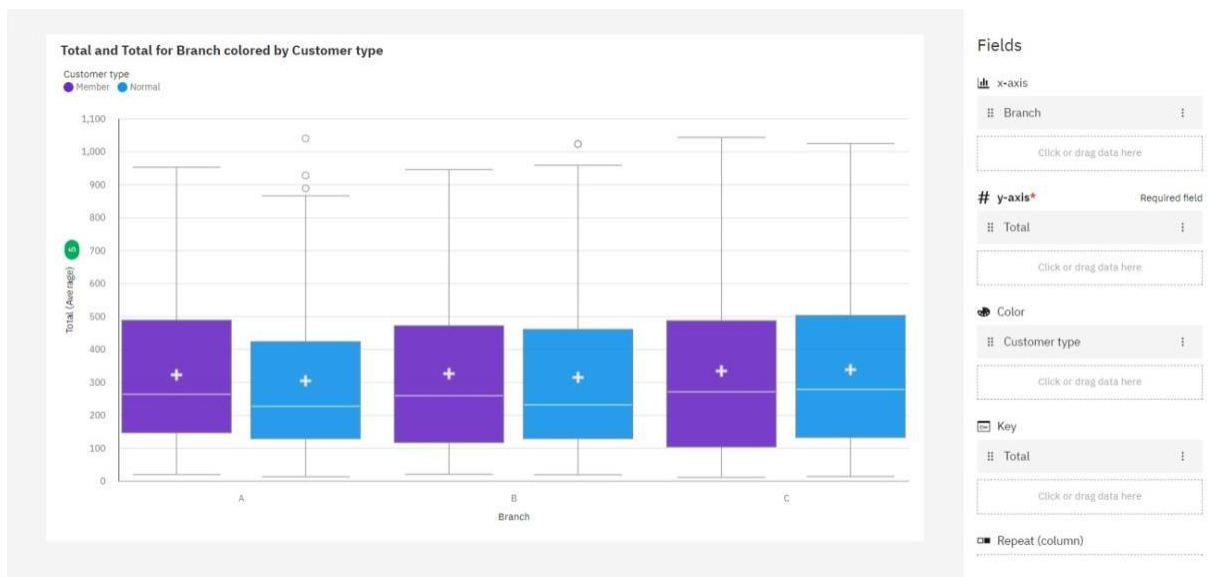
Line position* Required field

gross income

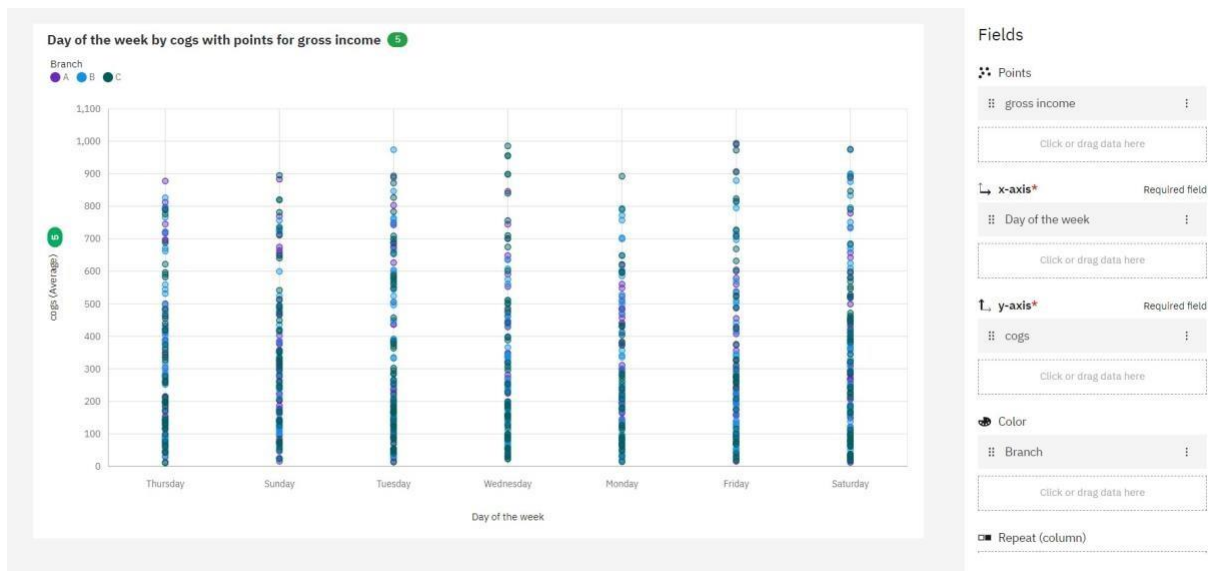
Click or drag data here

Line color

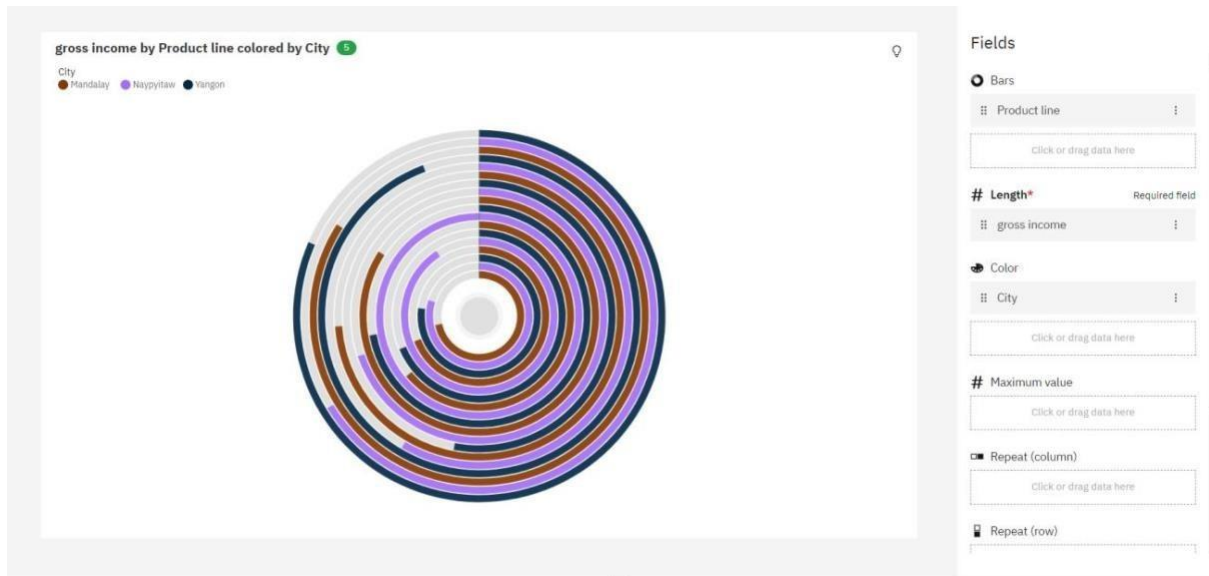
➤ Box Plot:



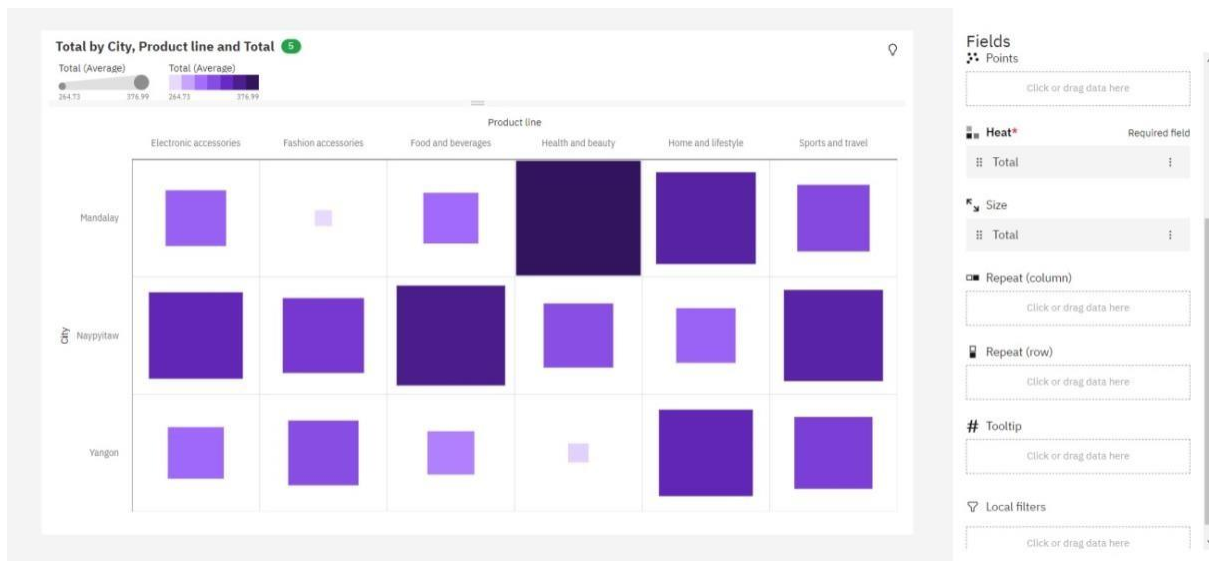
➤ Scatter Plot:



➤ Radial Chart:



➤ Heat Map Chart:



➤ Tree Map Chart:

