

# **ASSIGNMENT-1**

## **Data Analytics with IBM Cognos**

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**RegNo:** 21BCB7104

# Splitting Date into Month, Date, Year, day:

## Edit split column - Date

Specify how to split the column. Select or type one character to use as a delimiter, and specify a maximum of 5 columns to split the column into. You can trim whitespace from the column values and additionally one leading and one trailing character.

### Select delimiter

1 / 5 / 2 0 1 9

### Type delimiter

/

Trimmed characters

Whitespace

### Preview

Date	Month	Date	Year
1/5/2019	1	5	2019
3/8/2019	3	8	2019
3/3/2019	3	3	2019
1/27/2019	1	27	2019
2/8/2019	2	8	2019
3/25/2019	3	25	2019
2/25/2019	2	25	2019
2/24/2019	2	24	2019

Cancel

Next

IBM Cognos Analytics

supermarket data module

Search

supermarket data module

Navigation paths

supermarket...Sheet1.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

Payment

cogs

gross mar...centage

gross income

Rating

quantity	Tax 5%	Total	Date	Year	Month	Day	Day of the week	Time
26.1415	540.9715	2019-01-05	2019	1	5	Saturday	13:08:00	
3.82	80.22	2019-03-08	2019	3	8	Friday	10:29:00	
16.2155	340.5255	2019-03-03	2019	3	3	Sunday	13:23:00	
23.288	489.048	2019-01-27	2019	1	27	Sunday	20:33:00	
30.2085	634.3785	2019-02-08	2019	2	8	Friday	10:37:00	
29.8865	627.6165	2019-03-25	2019	3	25	Monday	18:30:00	
20.652	433.692	2019-02-25	2019	2	25	Monday	14:36:00	
36.78	772.38	2019-02-24	2019	2	24	Sunday	11:38:00	
3.626	76.146	2019-01-10	2019	1	10	Thursday	17:15:00	
8.226	172.746	2019-02-20	2019	2	20	Wednesday	13:27:00	
2.896	60.816	2019-02-06	2019	2	6	Wednesday	18:07:00	
5.102	107.142	2019-03-09	2019	3	9	Saturday	17:03:00	
11.7375	246.4875	2019-02-12	2019	2	12	Tuesday	10:25:00	
21.595	453.495	2019-02-07	2019	2	7	Thursday	16:48:00	
35.69	749.49	2019-03-29	2019	3	29	Friday	19:21:00	
28.116	590.436	2019-01-15	2019	1	15	Tuesday	16:19:00	
24.1255	506.6355	2019-03-11	2019	3	11	Monday	11:03:00	
21.783	457.443	2019-01-01	2019	1	1	Tuesday	10:39:00	
8.2005	172.2105	2019-01-21	2019	1	21	Monday	18:00:00	

# Removing Unwanted column:

Grid

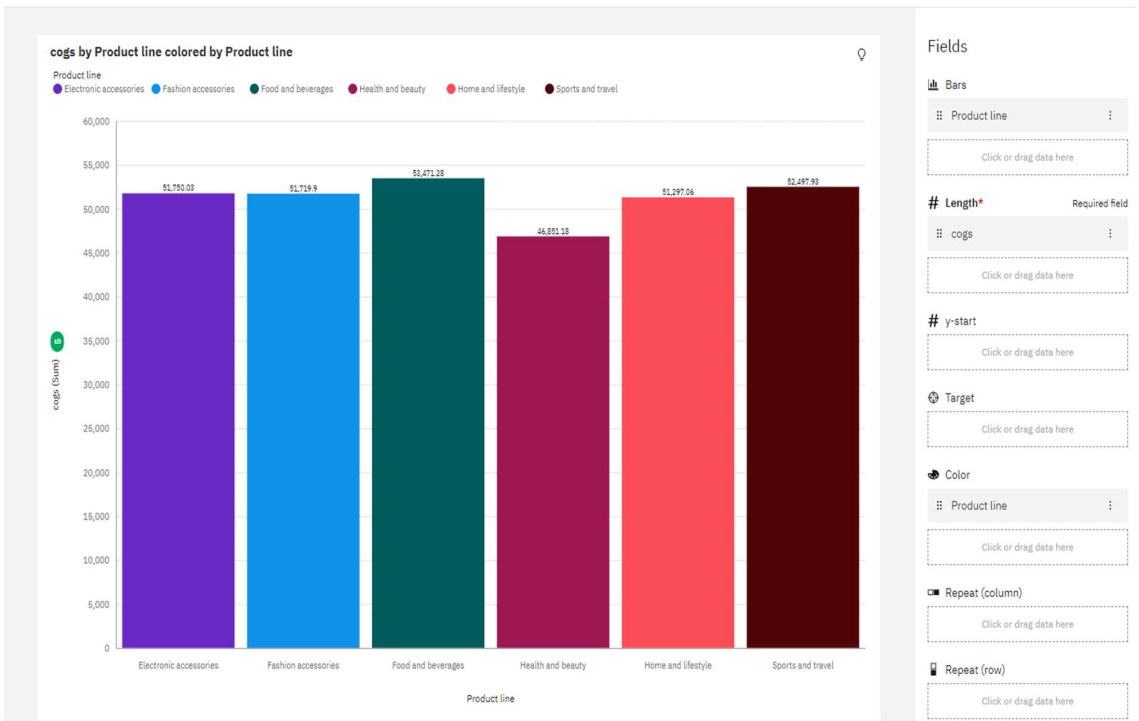
Relationships

Custom tables

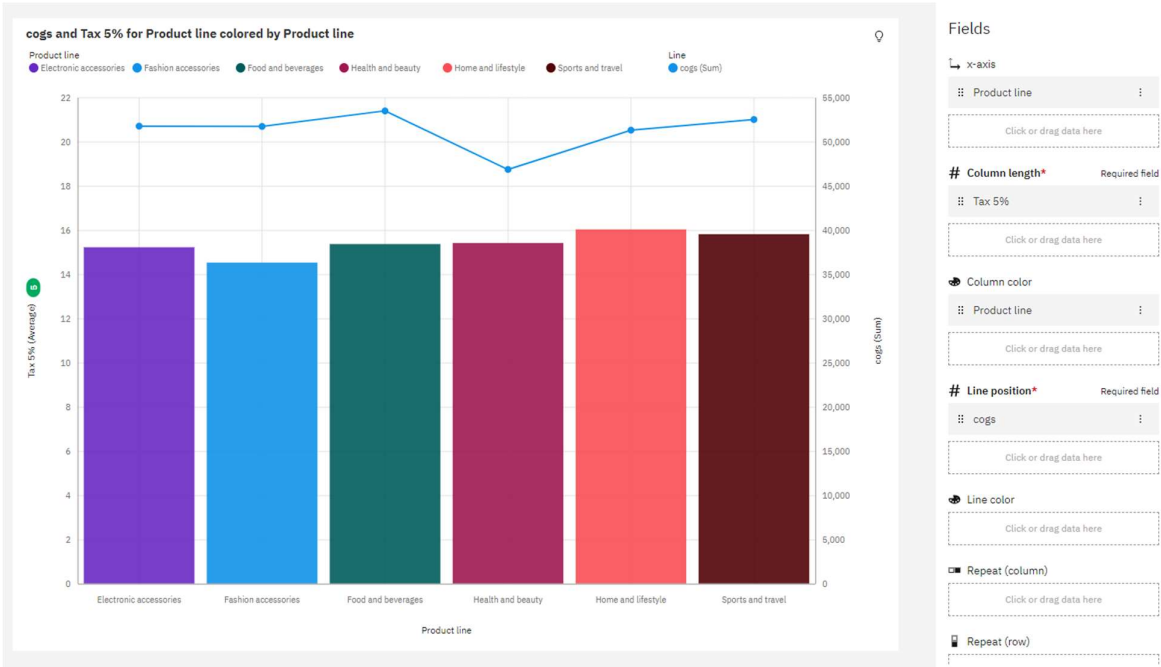
↑↓	Date	Year	Time	Filter...	cogs	gross margin percentage	gross
	5	2019	13:08	Create data group...	522.83	4.76190476	26.1
	8	2019	10:29	Create navigation path...	76.4	4.76190476	3.82
	3	2019	13:23	Split...	324.31	4.76190476	16.2
	27	2019	20:33	Hide from users	465.76	4.76190476	23.2
	8	2019	10:37	Remove	604.17	4.76190476	30.2
	25	2019	18:30	Format data...	597.73	4.76190476	29.8
	25	2019	14:36	Clean...	413.04	4.76190476	20.6
	24	2019	11:38	Sort descending	735.6	4.76190476	36.7
				Sort ascending			
				Properties			
	10	2019	17:15	Credit card	72.52	4.76190476	3.62
	20	2019	13:27	Credit card	164.52	4.76190476	8.22
	6	2019	18:07	Ewallet	57.92	4.76190476	2.89
	9	2019	17:03	Cash	102.04	4.76190476	5.10
	12	2019	10:25	Ewallet	234.75	4.76190476	11.7
	7	2019	16:48	Ewallet	431.9	4.76190476	21.5

## After we have to start the visualisations

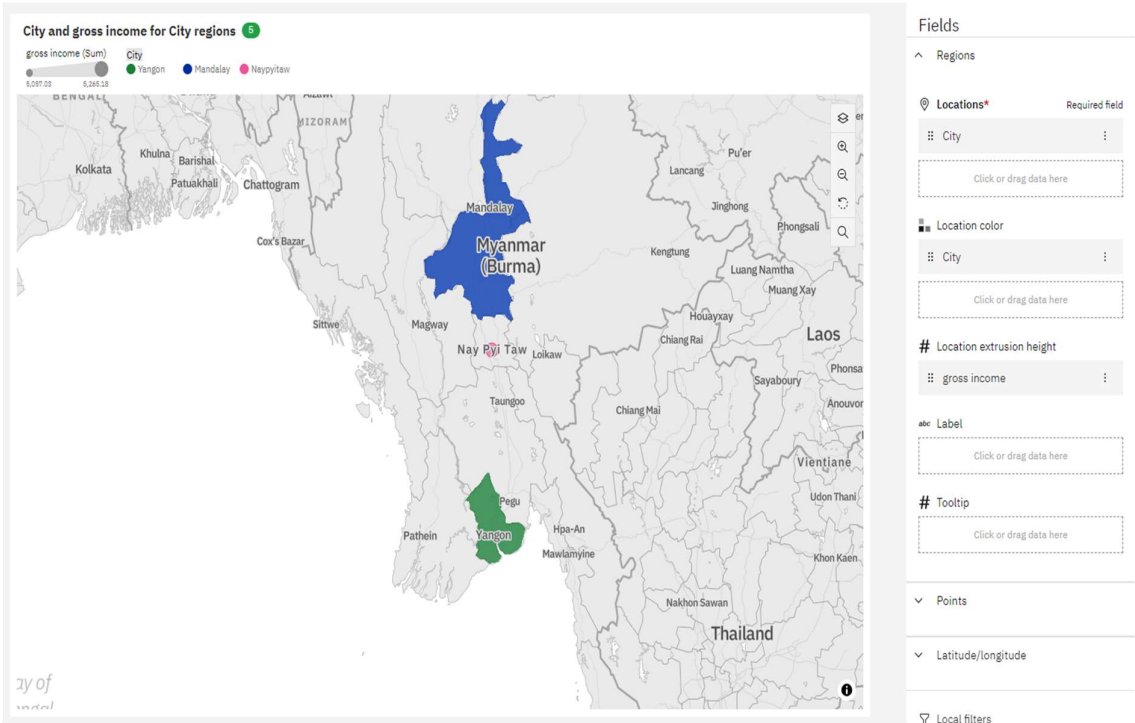
### 1) Column



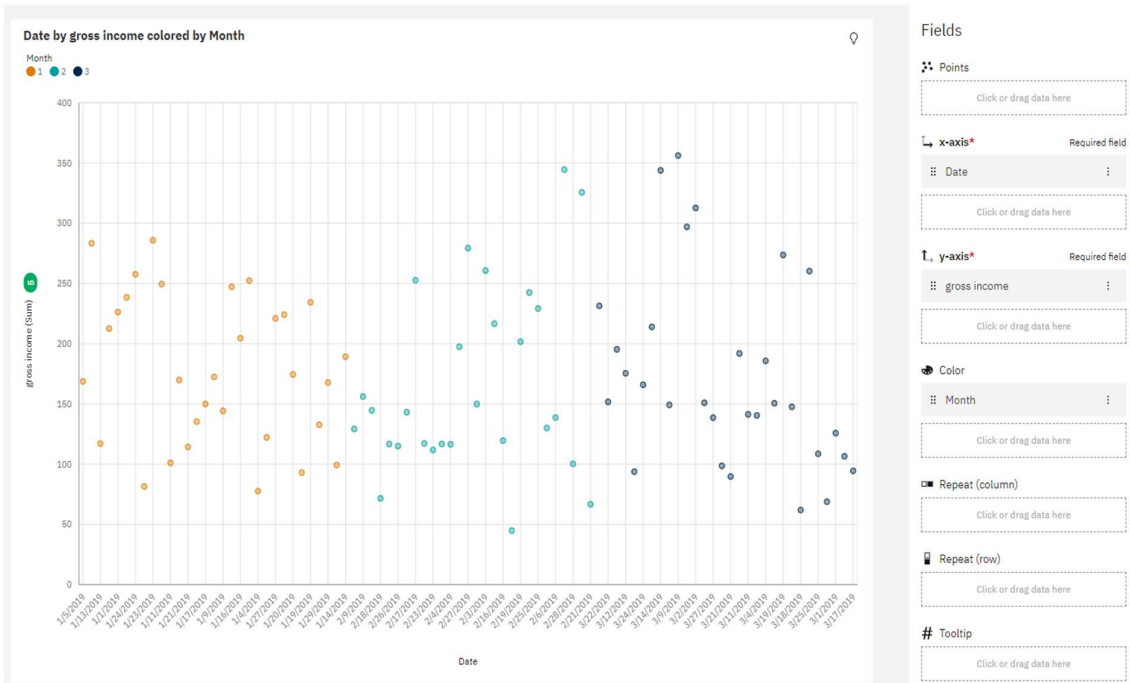
## 2) Line and Column



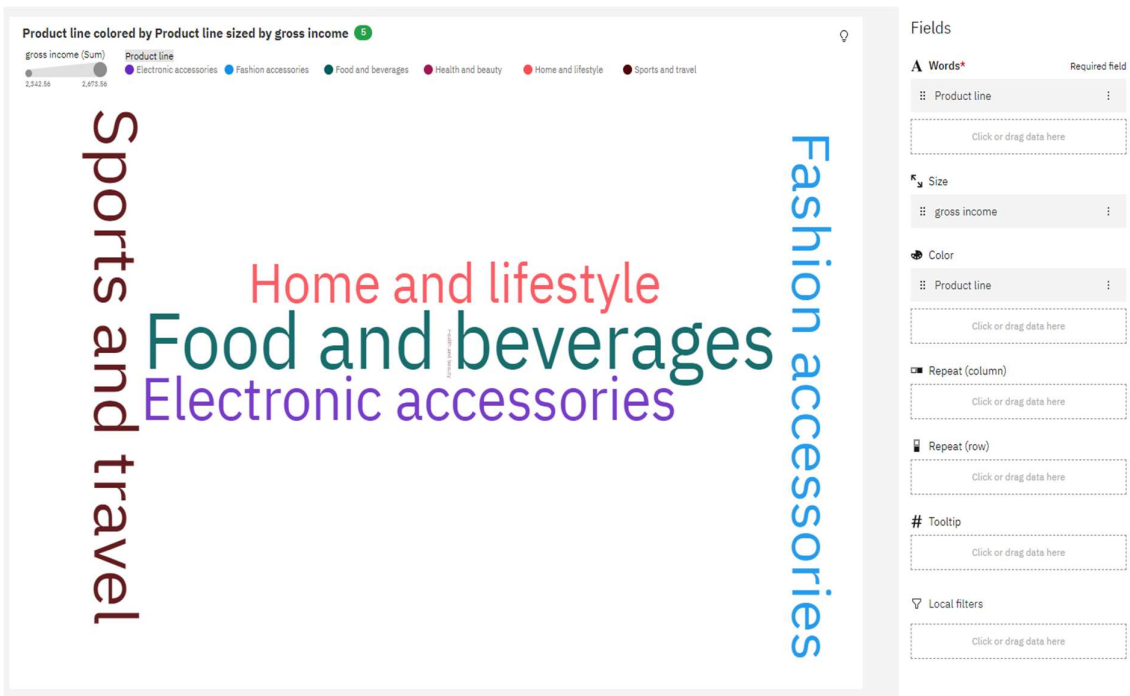
## 3) Map



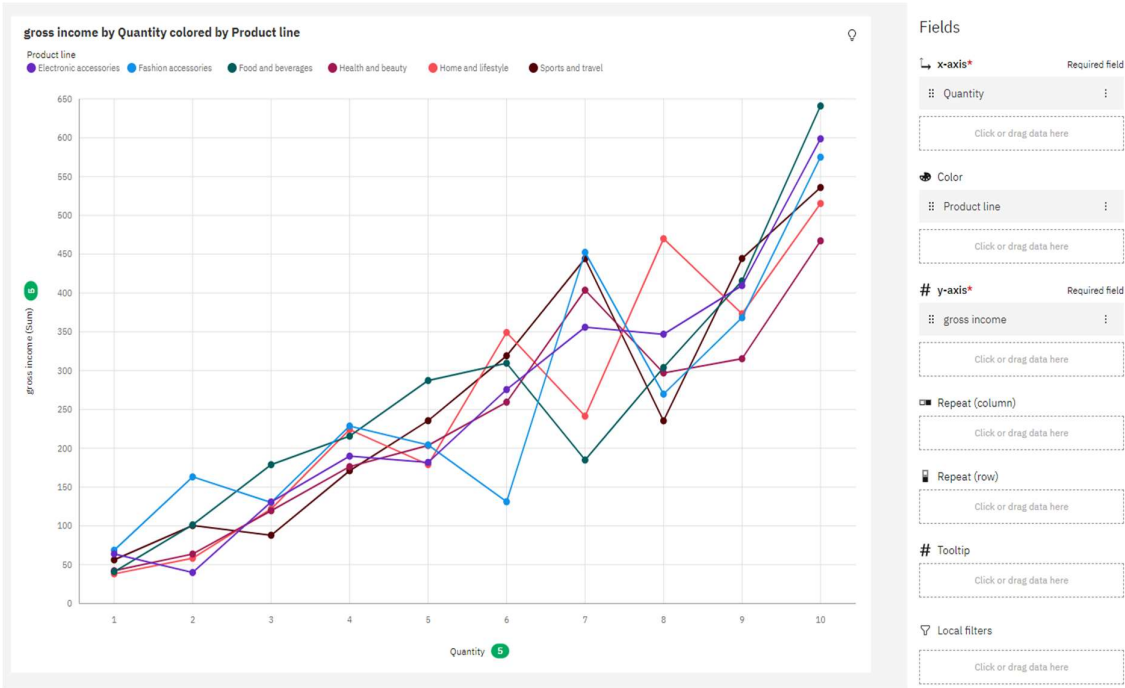
## 4) Scatter plot



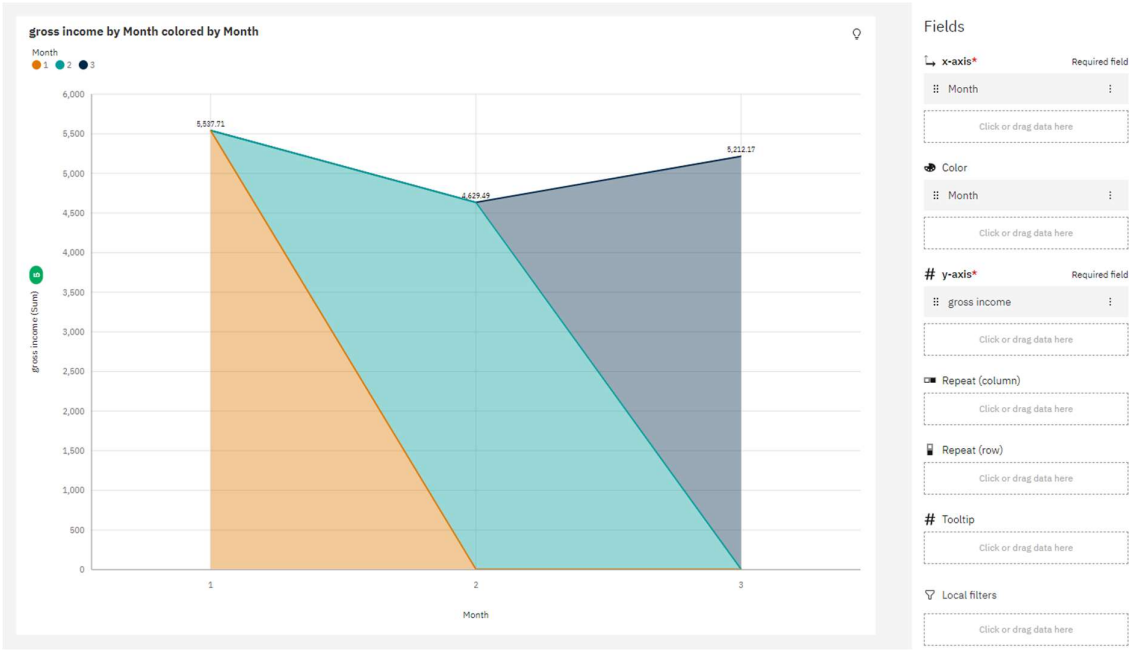
## 5) Word



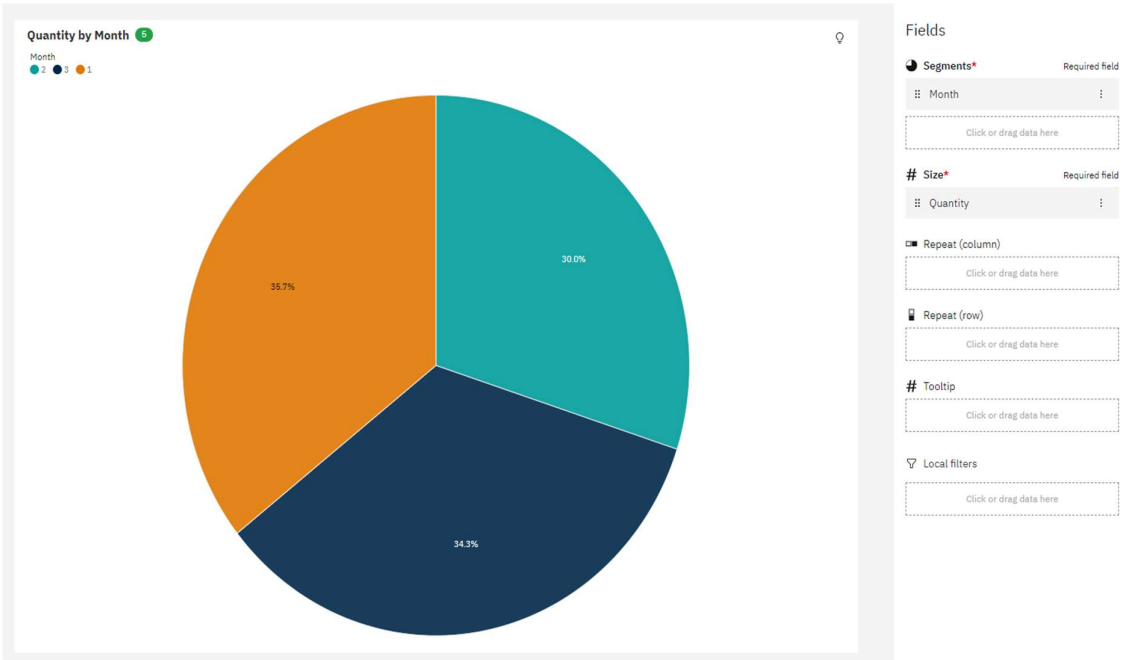
6) Line



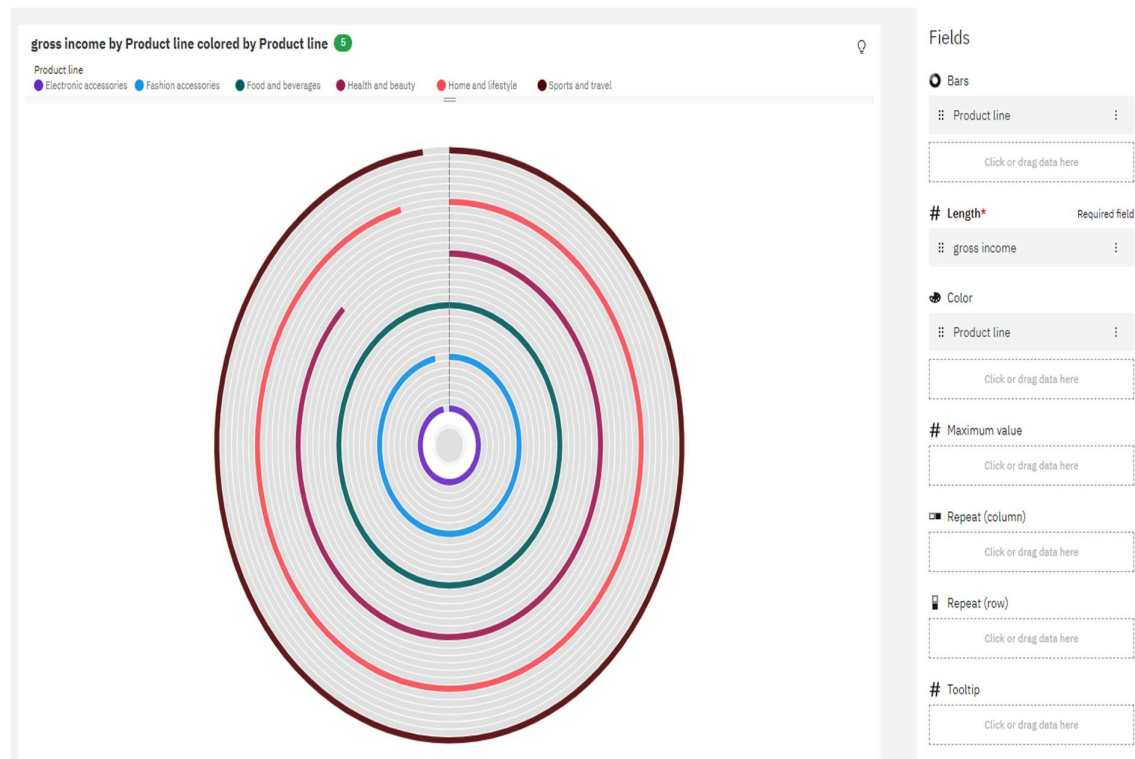
## 8) Area



## 9) Pie



## 10) Radial



These visualisations, developed with IBM Cognos Analytics, provide various approaches to comprehending business data. They include of well-known graphs for data comparison including bar and pie charts, line graphs for identifying trends over time, and scatter plots for investigating correlations between variables. Advanced visualisations such as heat maps indicate hierarchies and trends, while word clouds highlight the frequency of text data.

Geographic insights are provided by map visualisations. Together, these images support firms in recognising opportunities for development and improvement by clearly presenting profit, cost, revenue, and other vital indicators across a range of product lines and timeframes.