

ASSIGNMENT-1

Data Analytics with IBM Cognos

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Splitting Date into Month, Date, Year:

relationships Custom tables					
Total	Date	Time	Payment	cogs	gross margin percent
548.9715	1/5/2019	13:27	Ewallet	522.83	4.76190476
80.22	3/8/2019	18:07	Cash	76.4	4.76190476
340.5255	3/3/2019	17:03	Credit card	324.31	4.76190476
489.048	1/27/2019	10:25	Ewallet	465.76	4.76190476
634.3785	2/8/2019		Ewallet	604.17	4.76190476
627.6165	3/25/2019		Ewallet	597.73	4.76190476
433.692	2/25/2019		Ewallet	413.04	4.76190476
772.38	2/24/2019		Ewallet	735.6	4.76190476
76.146	1/10/2019		Credit card	72.52	4.76190476
172.746	2/20/2019		Credit card	164.52	4.76190476
60.816	2/6/2019		Ewallet	57.92	4.76190476
107.142	3/9/2019		Cash	102.04	4.76190476
246.4875	2/12/2019		Ewallet	234.75	4.76190476
453.495	2/7/2019		Ewallet	433.9	4.76190476

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

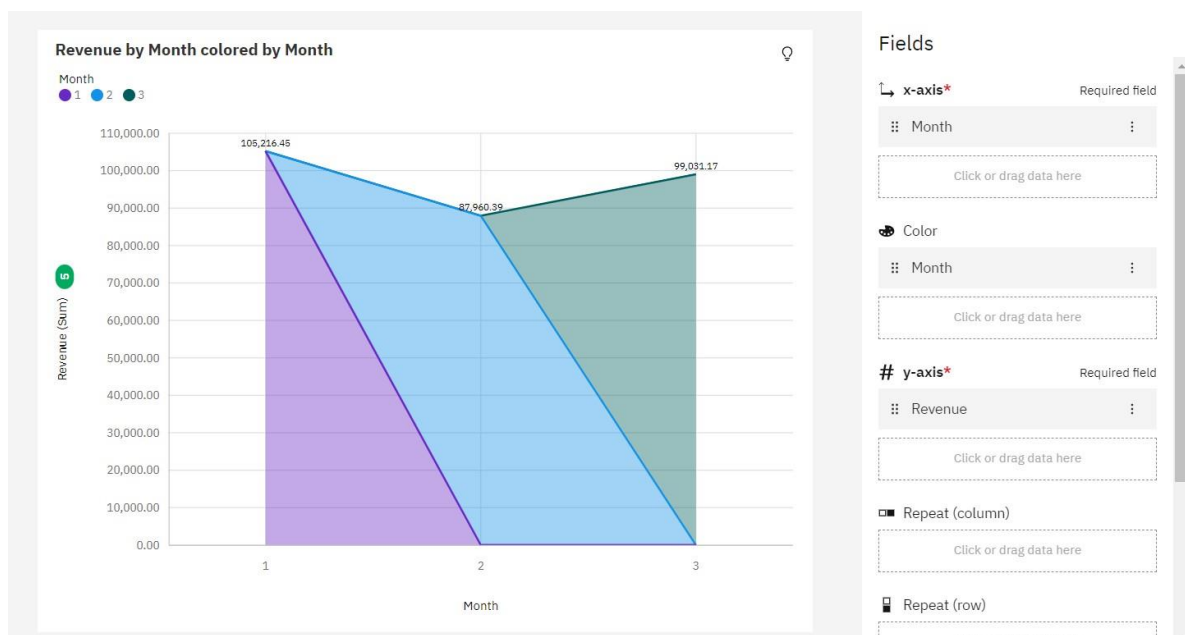
relationships Custom tables				
Total	Date	Month	Date	Year
548.9715	1/5/2019	1	5	2019
80.22	3/8/2019	3	8	2019
340.5255	3/3/2019	3	3	2019
489.048	1/27/2019	1	27	2019
634.3785	2/8/2019	2	8	2019
627.6165	3/25/2019	3	25	2019
433.692	2/25/2019	2	25	2019
772.38	2/24/2019	2	24	2019
76.146	1/10/2019	1	10	2019
172.746	2/20/2019	2	20	2019
60.816	2/6/2019	2	6	2019
107.142	3/9/2019	3	9	2019
246.4875	2/12/2019	2	12	2019
453.495	2/7/2019	2	7	2019

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,

Area:



Bar:



Fields

Bars

Product line

Click or drag data here

Length* Required field

Revenue

Click or drag data here

y-start

Click or drag data here

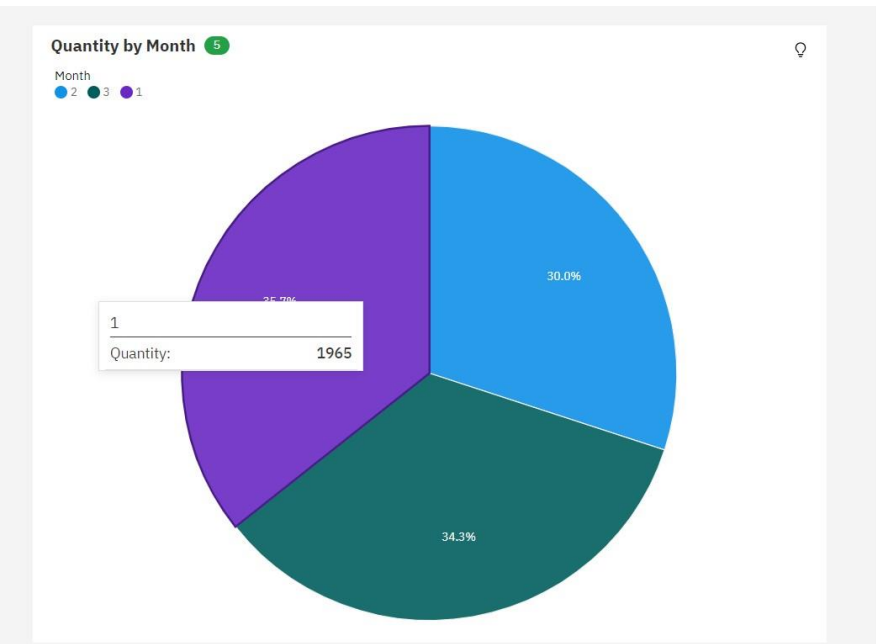
Target

Click or drag data here

Color

Product line

Pie:



Fields

Segments* Required field

Month

Click or drag data here

Size* Required field

Quantity

Repeat (column)

Click or drag data here

Repeat (row)

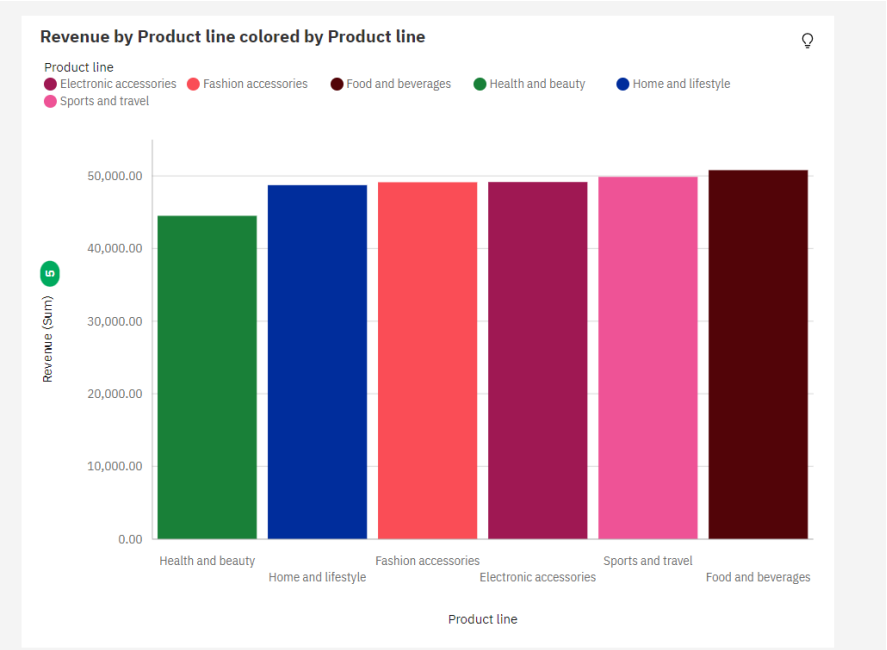
Click or drag data here

Tooltip

Click or drag data here

Local filters

Column:



Fields

Bars

Product line

Click or drag data here

Length* Required field

Revenue

Click or drag data here

y-start

Click or drag data here

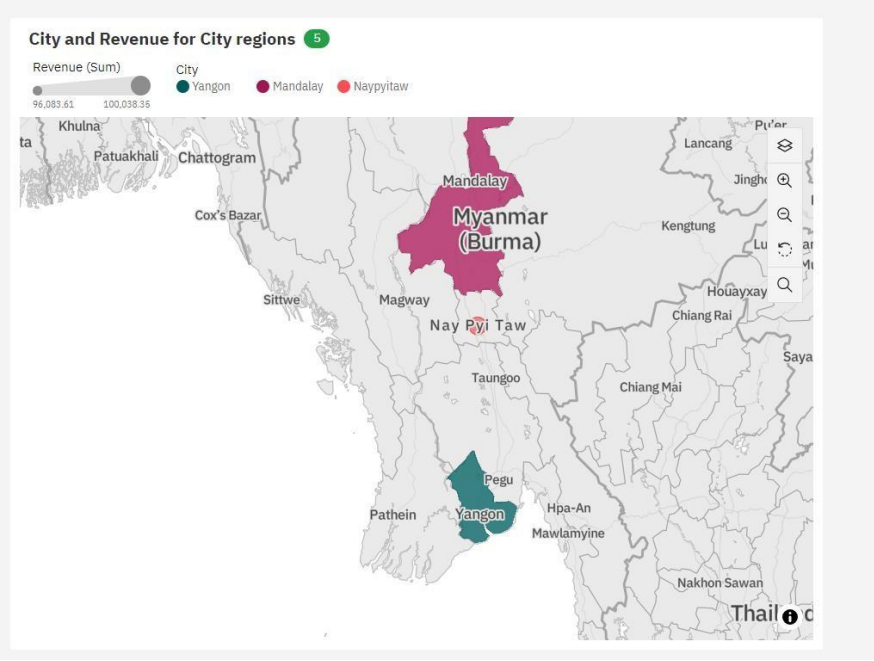
Target

Click or drag data here

Color

Product line

Map:



Fields

Regions

Locations* Required field

City

Click or drag data here

Location color

City

Click or drag data here

Location extrusion height

Revenue

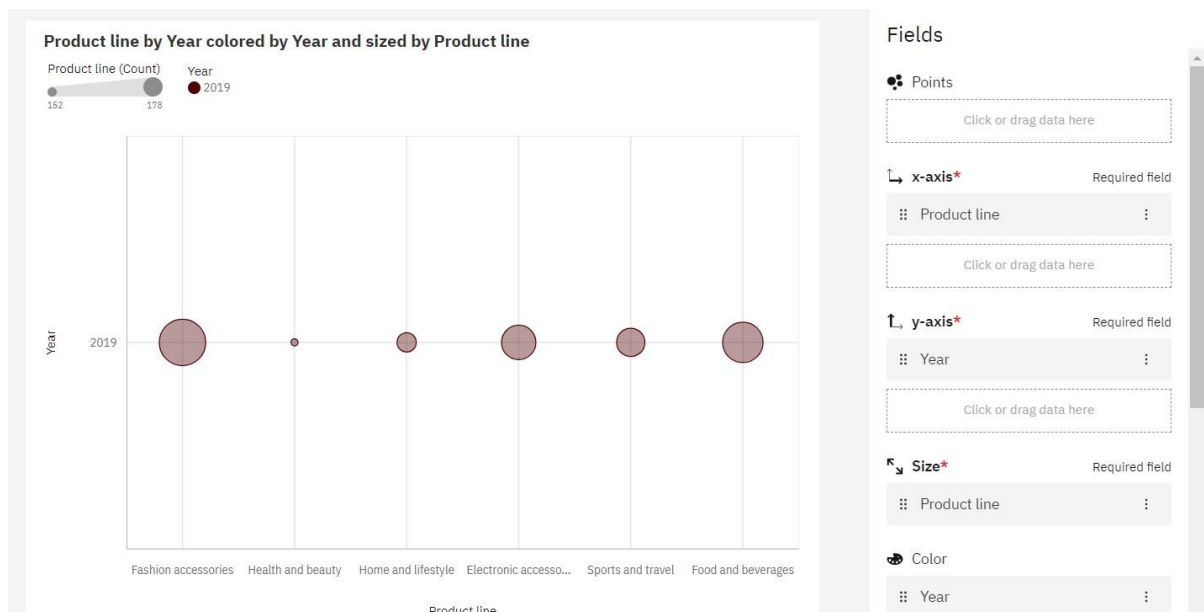
Label

Click or drag data here

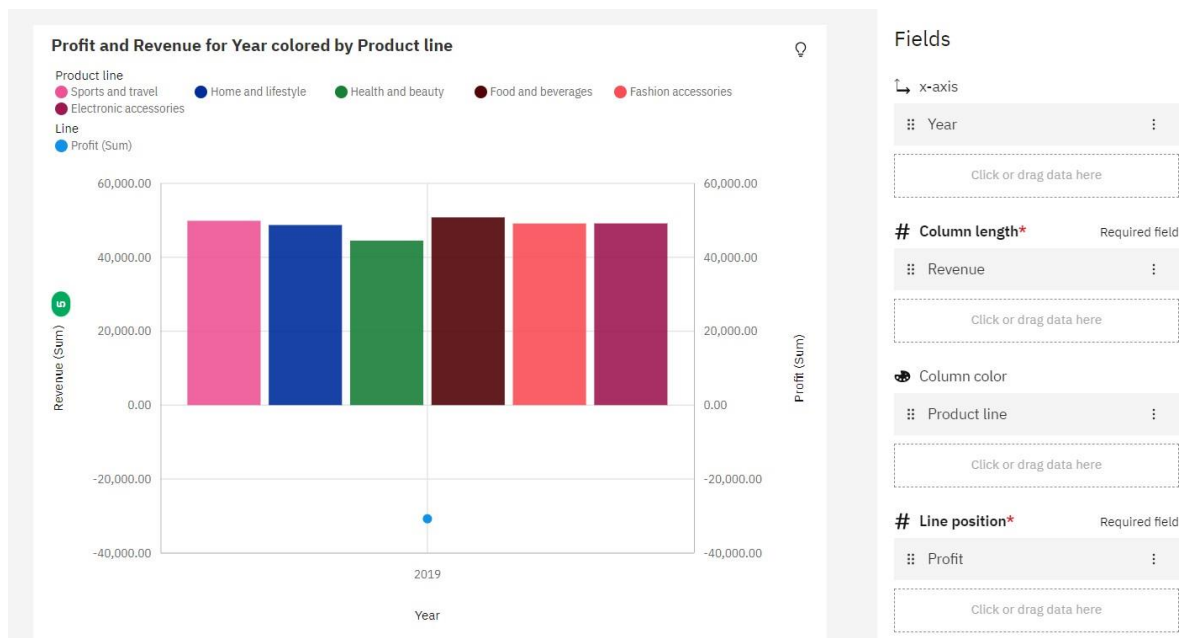
Tooltip

Click or drag data here

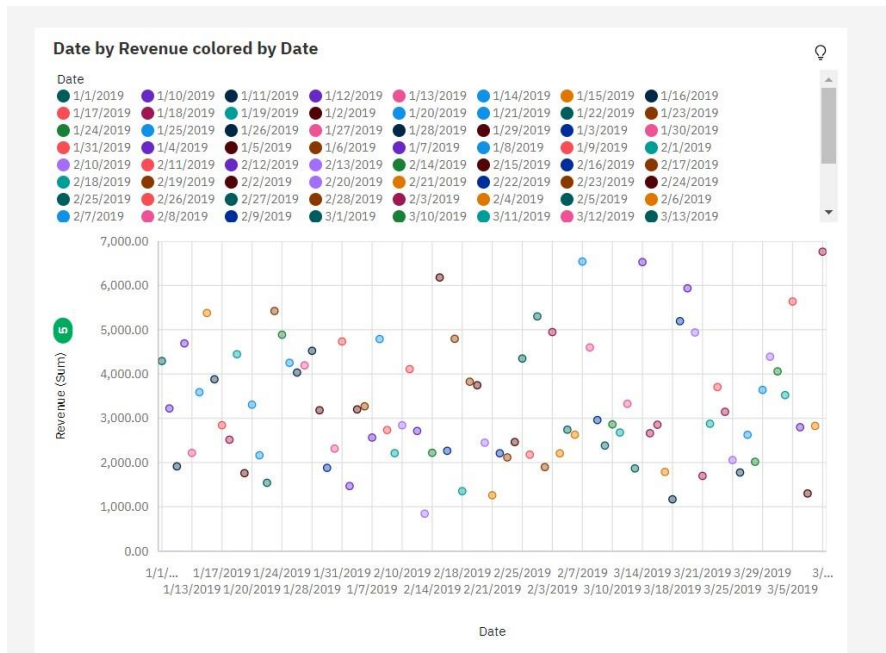
Bubble:



Line and column:



Scatter:



Fields

Points

Click or drag data here

X-axis*

Required field

Date

Click or drag data here

Y-axis*

Required field

Revenue

Click or drag data here

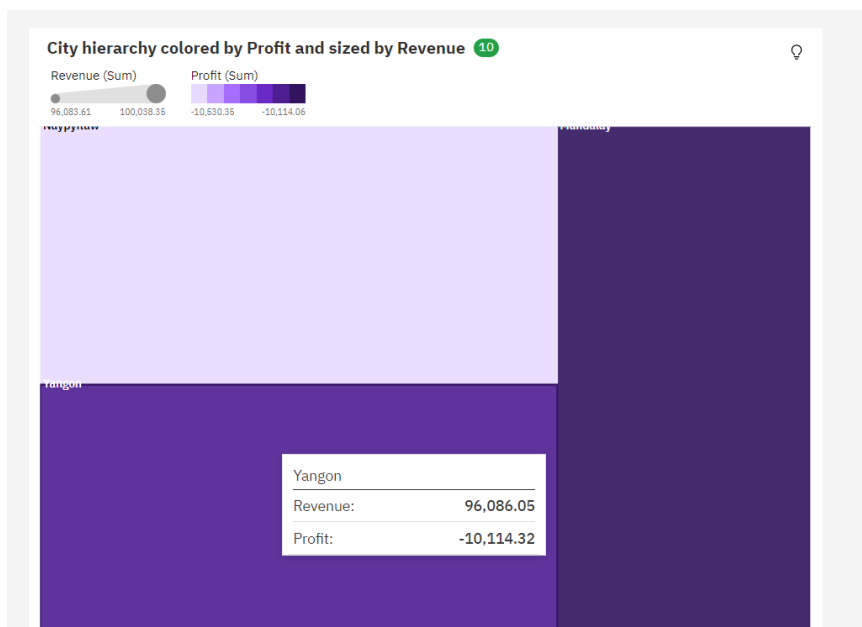
Color

Date

Click or drag data here

Repeat (column)

Tree:



Fields

Area hierarchy*

Required field

City

Click or drag data here

Size*

Required field

Revenue

Heat

Profit

Repeat (column)

Click or drag data here

Repeat (row)

Click or drag data here

Tooltip

Crosstab:

Profit for Product line and City 5

Profit	Electronic accessories	Fashion accessories	Food and beverages	Health and beauty	Home
Mandalay	-1,623.95 ↓	-1,563.17 ↓	-1,449.04 ↓	-1,902.92 ↓	
Naypyitaw	-1,806.57 ↓	-2,053.34 ↓	-2,263.51 ↓	-1,582.41 ↓	
Yangon	-1,744.49 ↓	-1,555.48 ↓	-1,634.58 ↓	-1,199.79 ↓	
Summary	-5,175.00	-5,171.99	-5,347.13	-4,685.12	

Fields

Columns

Product line

Click or drag data here

Rows

City

Click or drag data here

Values*

Profit

Click or drag data here

Local filters

Click or drag data here

Radial:



Fields

Bars

Product line

Click or drag data here

Length*

Revenue

Click or drag data here

Color

Product line

Click or drag data here

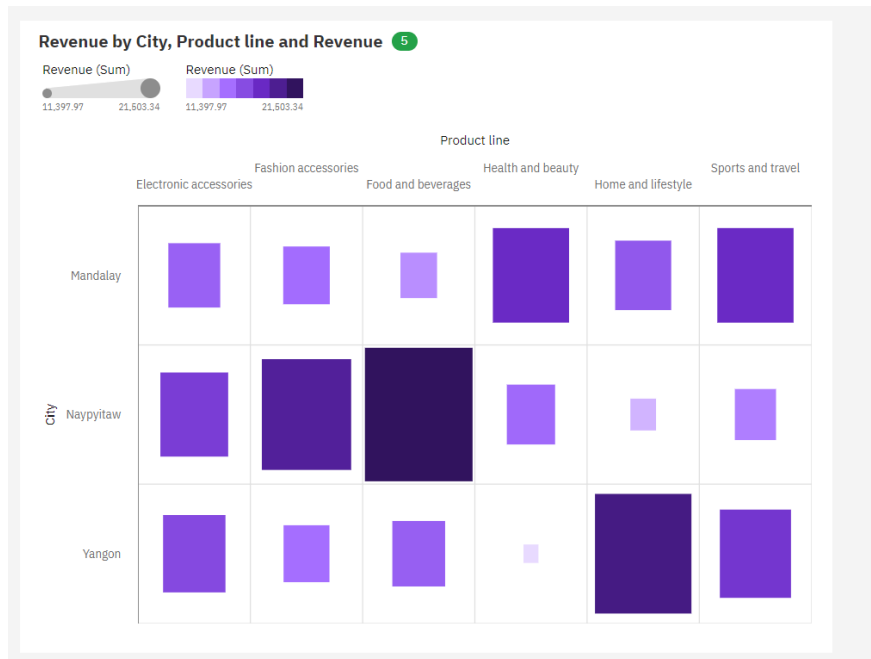
Maximum value

Click or drag data here

Repeat (column)

Click or drag data here

Heat map:



Fields

Rows

City

Click or drag data here

Columns

Product line

Click or drag data here

Points

Click or drag data here

Heat*

Required field

Revenue

Size

Revenue

Repeat (column)

Word Cloud:



Fields

Words*

Required field

Product line

Click or drag data here

Size

Revenue

Color

Product line

Click or drag data here

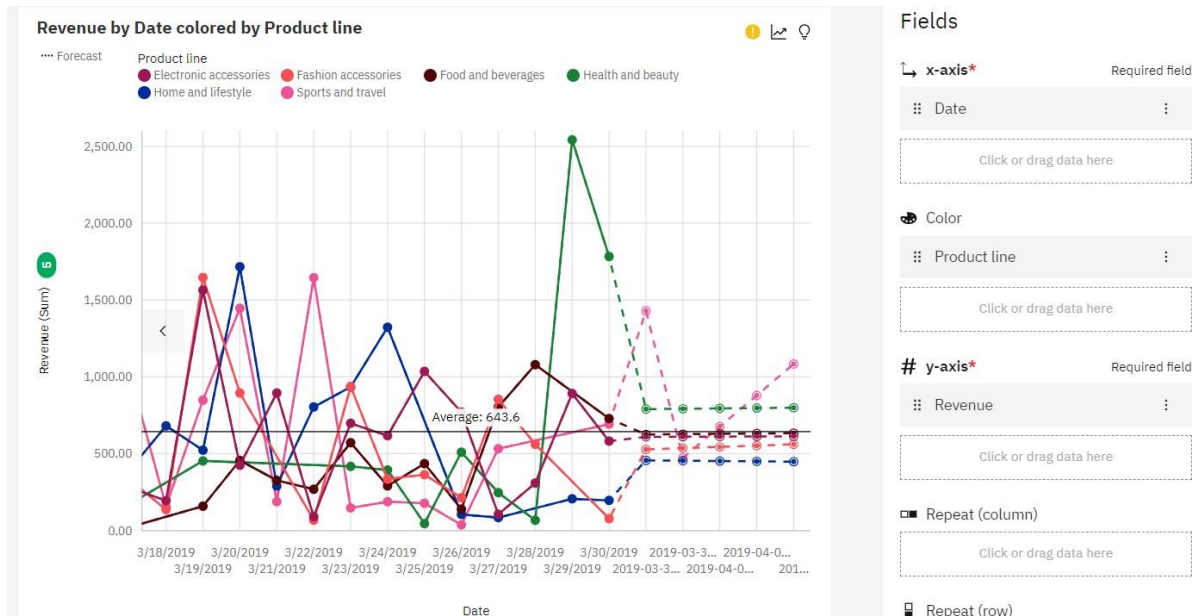
Repeat (column)

Click or drag data here

Repeat (row)

Click or drag data here

Line:



- These visualizations, created using IBM Cognos Analytics, offer diverse ways to understand business data. They include common charts like bar and pie charts for comparing data, line charts for spotting trends over time, and scatter plots to explore relationships between variables. Advanced visualizations like heat maps reveal patterns and hierarchies, while word clouds highlight text data frequency.
- Map visualizations provide geographic insights. Together, these visuals empower data-driven decision-making by presenting profit, cost, revenue, and other key metrics in a clear, actionable manner across various product lines and timeframes, aiding businesses in identifying areas for improvement and growth.