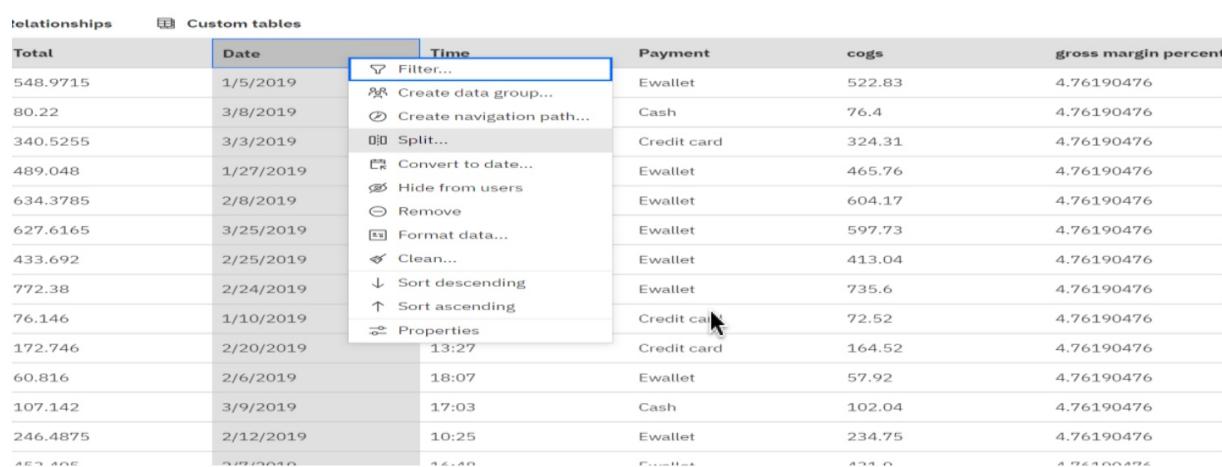


ASSIGNMENT-1

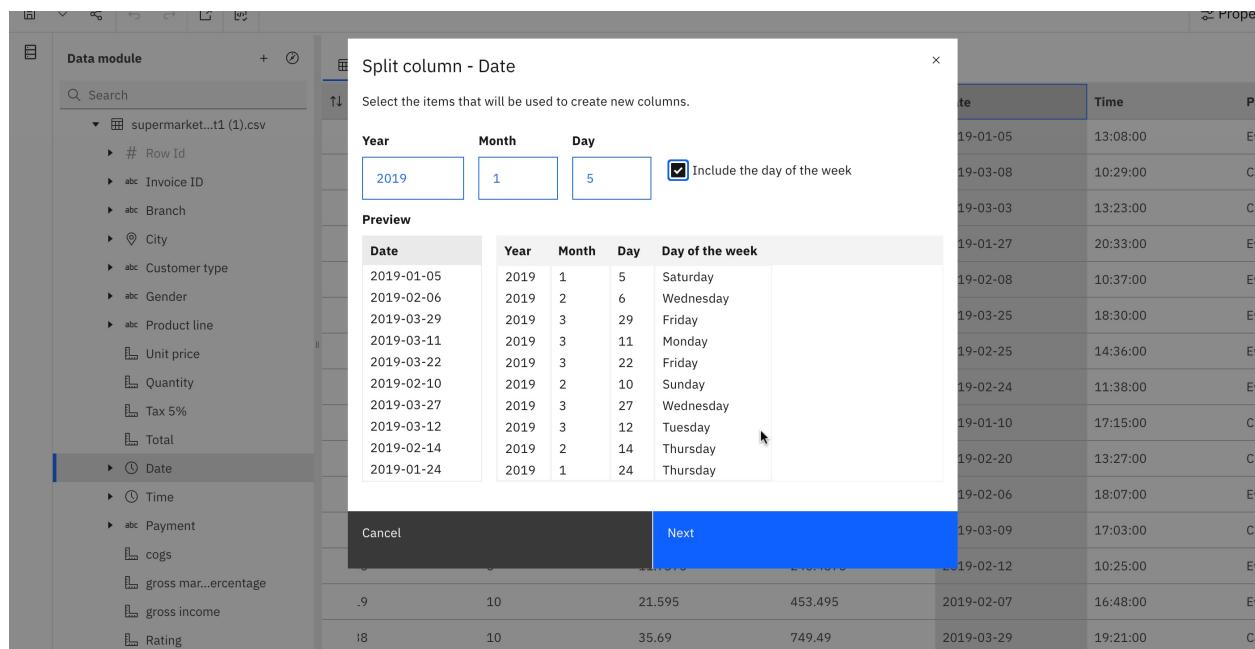
DATA ANALYTICS WITH IBM COGNOS

Splitting date into month, date, year



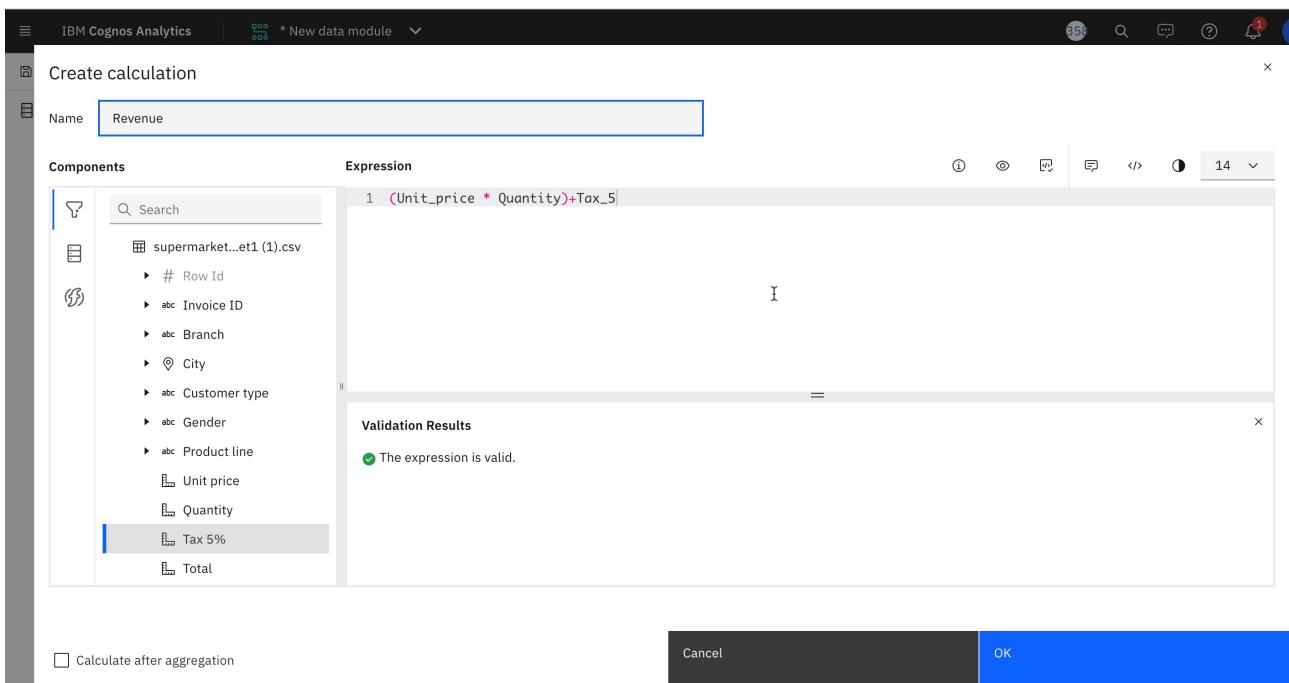
A screenshot of the IBM Cognos Data Studio interface. On the left, there's a 'Relationships' pane and a 'Custom tables' section containing a data grid. The grid has columns for 'Total', 'Date', 'Time', 'Payment', 'cogs', and 'gross margin percent'. A context menu is open over the 'Time' column, with the 'Split...' option highlighted. Other options in the menu include 'Filter...', 'Create data group...', 'Create navigation path...', 'Convert to date...', 'Hide from users', 'Remove', 'Format data...', 'Clean...', 'Sort descending', 'Sort ascending', and 'Properties'.

Total	Date	Time	Payment	cogs	gross margin percent
548.9715	1/5/2019		Ewallet	522.83	4.76190476
80.22	3/8/2019		Cash	76.4	4.76190476
340.5255	3/3/2019		Credit card	324.31	4.76190476
489.048	1/27/2019		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	13:27	Credit card	164.52	4.76190476
60.816	2/6/2019	18:07	Ewallet	57.92	4.76190476
107.142	3/9/2019	17:03	Cash	102.04	4.76190476
246.4875	2/12/2019	10:25	Ewallet	234.75	4.76190476

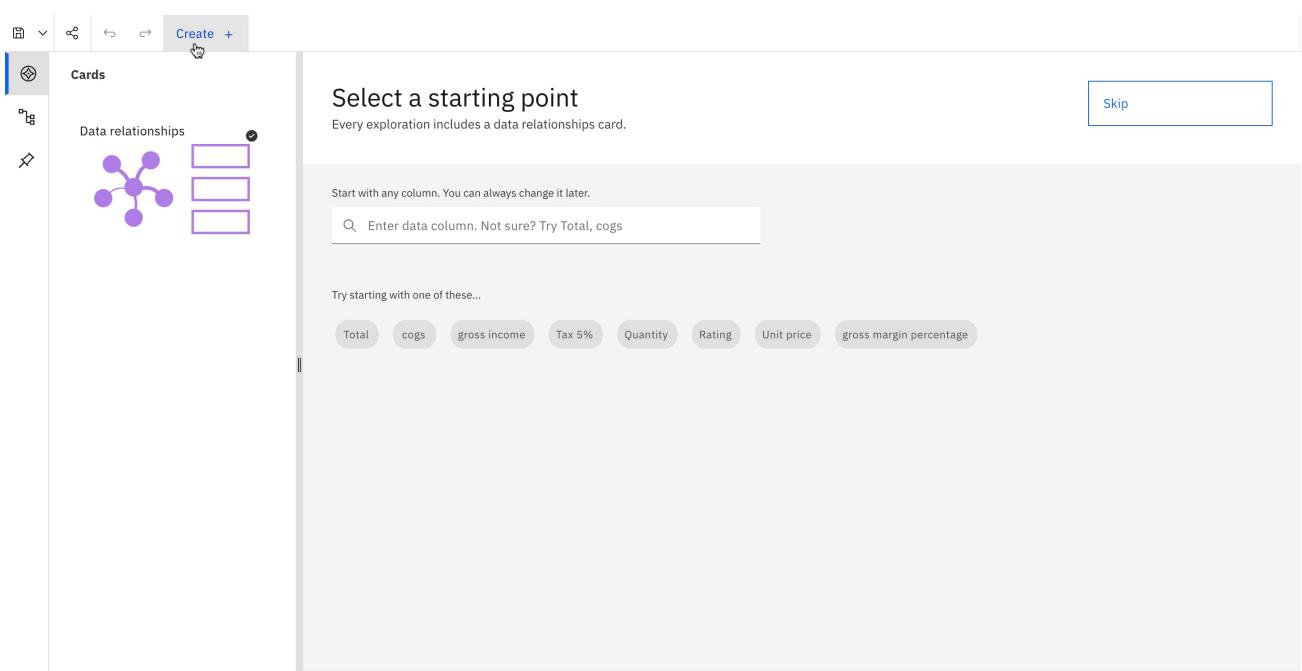


A screenshot of the 'Split column - Date' dialog in IBM Cognos Data Studio. The dialog shows a preview of the data with columns for 'Year', 'Month', and 'Day'. The 'Year' field is set to 2019, 'Month' to 1, and 'Day' to 5. A checkbox labeled 'Include the day of the week' is checked. Below the preview, there's a table showing the resulting columns: Date, Year, Month, Day, and Day of the week. The table lists dates from 2019-01-05 to 2019-01-24. The right side of the screen shows a preview of the data grid with columns for Date, Time, Payment, cogs, and gross margin percent.

revenue column creation:



Creating a visualization from Data module:



Selecting the visualization we want to create:

The screenshot shows the Power BI interface with a 'Cards' visual selected. On the right, a modal window titled 'Choose visualization type' displays a grid of visualization icons. The categories include:

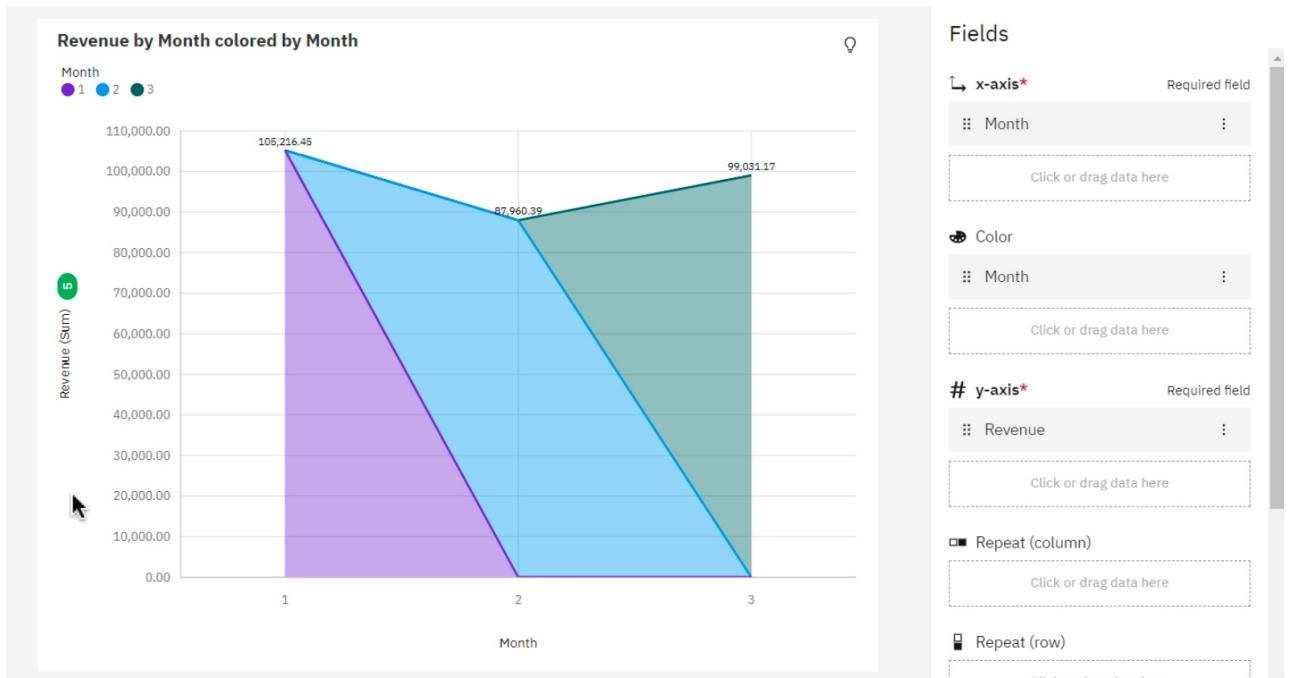
- Comparison:** Bar, Bullet, Column, Heat map, Line and column, Marimekko, Radar, Stacked bar, Stacked column, Word cloud.
- Parts to whole:** Hierarchy bubble, Packed bubble, Pie, Tree map.
- Trend:** Area, Box plot, Line, Line and column, Point, Radial, Waterfall.
- Relationships:** Bubble, Heat map, Network, Scatter.
- Tables and summary:** Crosstab, List, Summary, Table.
- Advanced analytics:** (empty)
- Geospatial:** (empty)
- Other:** (empty)

Removing time:

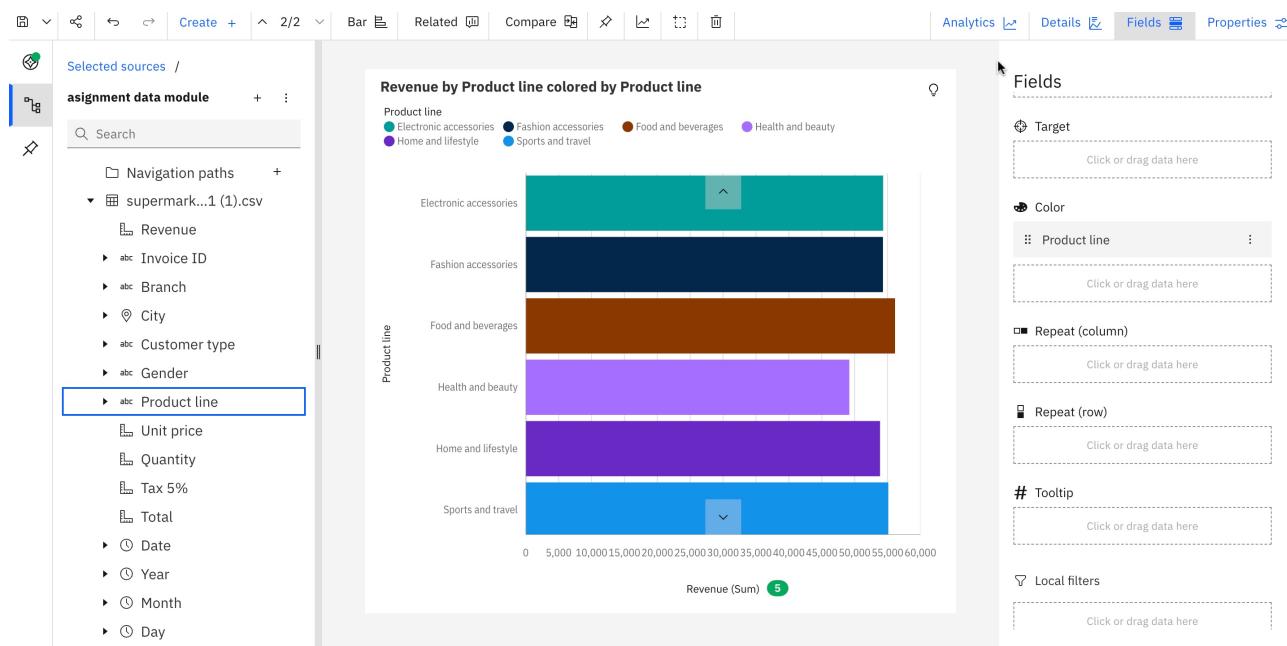
	Date	Year	Time	Filter...	cogs	gross margin percentage	gross	
5	2019		13:08	>Create data group...	522.83	4.76190476	26.1	
8	2019		10:29	Create navigation path...	76.4	4.76190476	3.82	
3	2019		13:23	Split...	324.31	4.76190476	16.2	
27	2019		20:33	Hide from users	465.76	4.76190476	23.2	
8	2019		10:37	Remove	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	
10	2019		17:15	Sort ascending	Credit card	72.52	4.76190476	3.62
20	2019		13:27	Properties	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

VISUALIZATIONS:

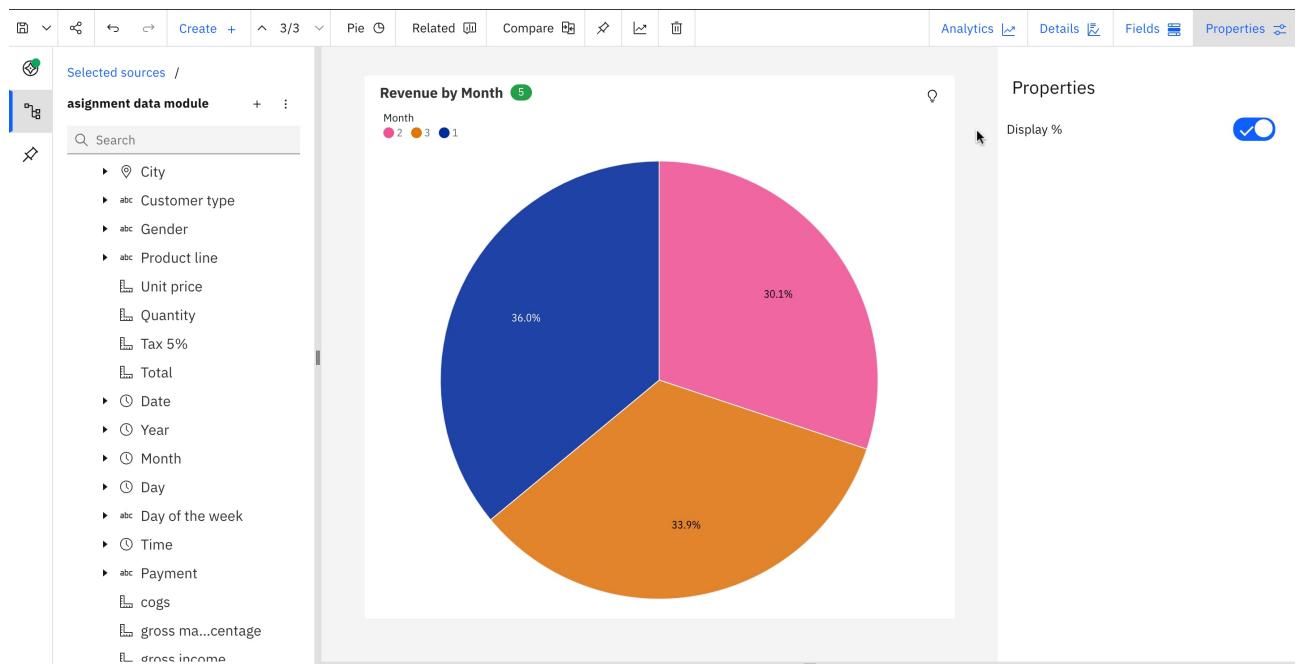
Area:



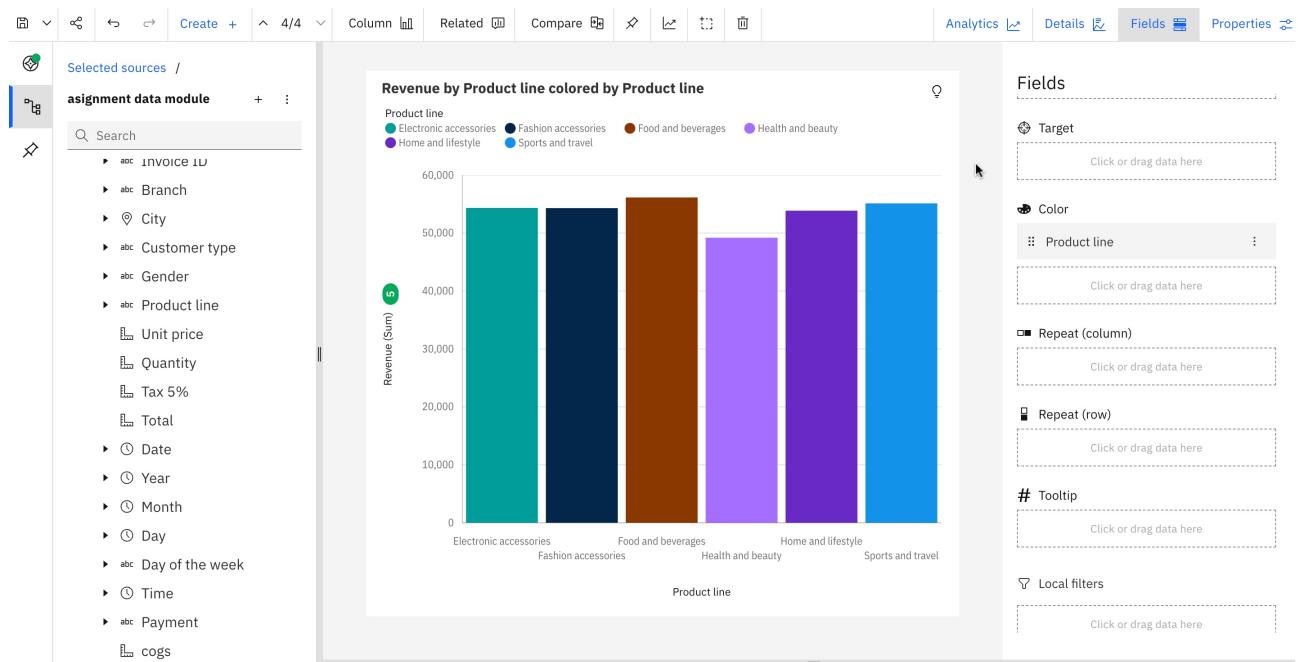
bar:



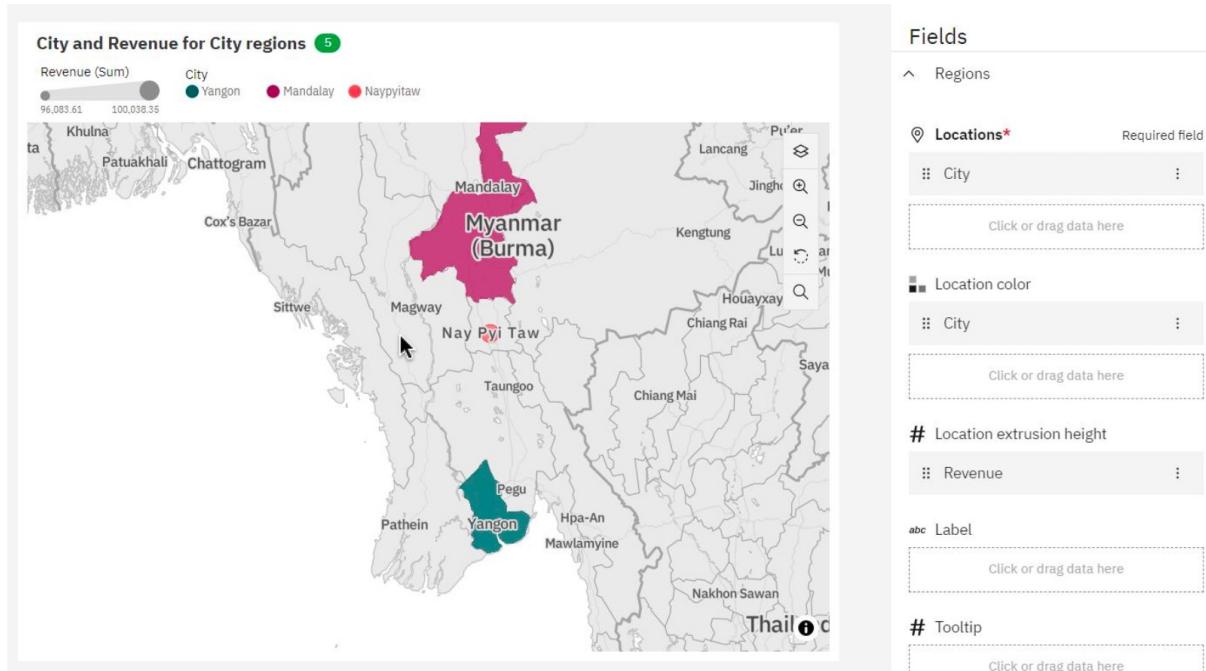
Pie:



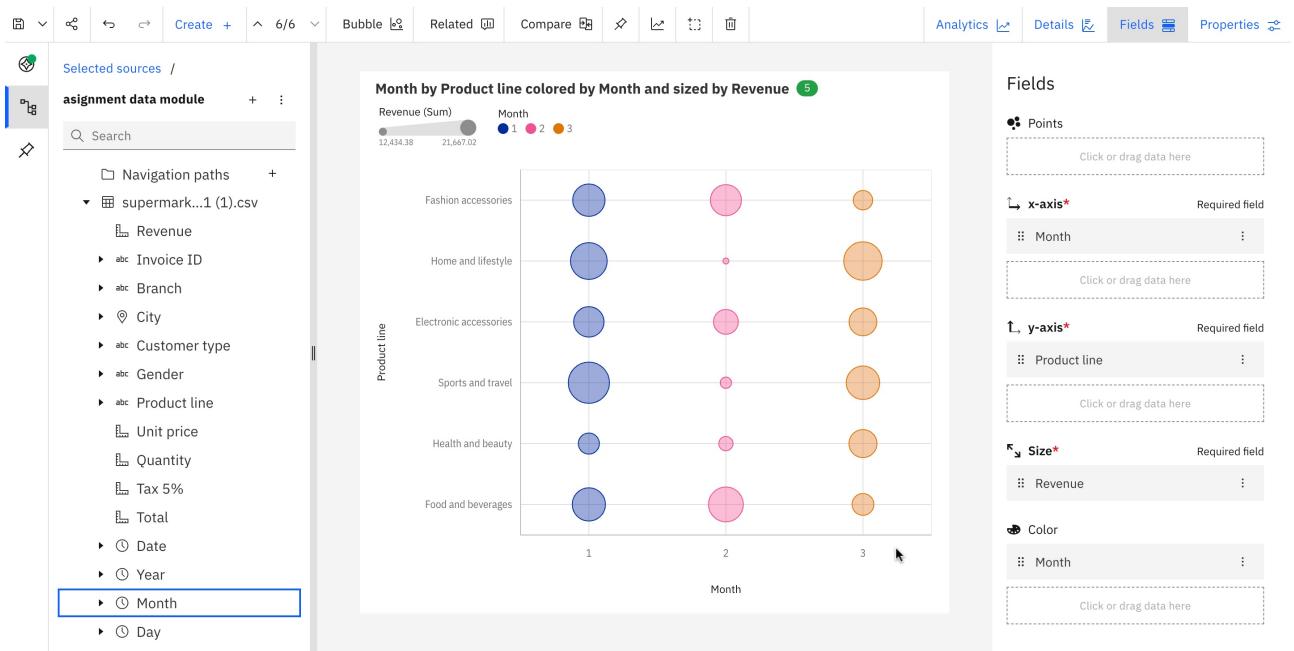
Column:



map :



Bubble:



Line and column:



Fields

↑ x-axis

⋮ Year

Click or drag data here

Column length*

Required field

⋮ Revenue

Click or drag data here

🎨 Column color

⋮ Product line

Click or drag data here

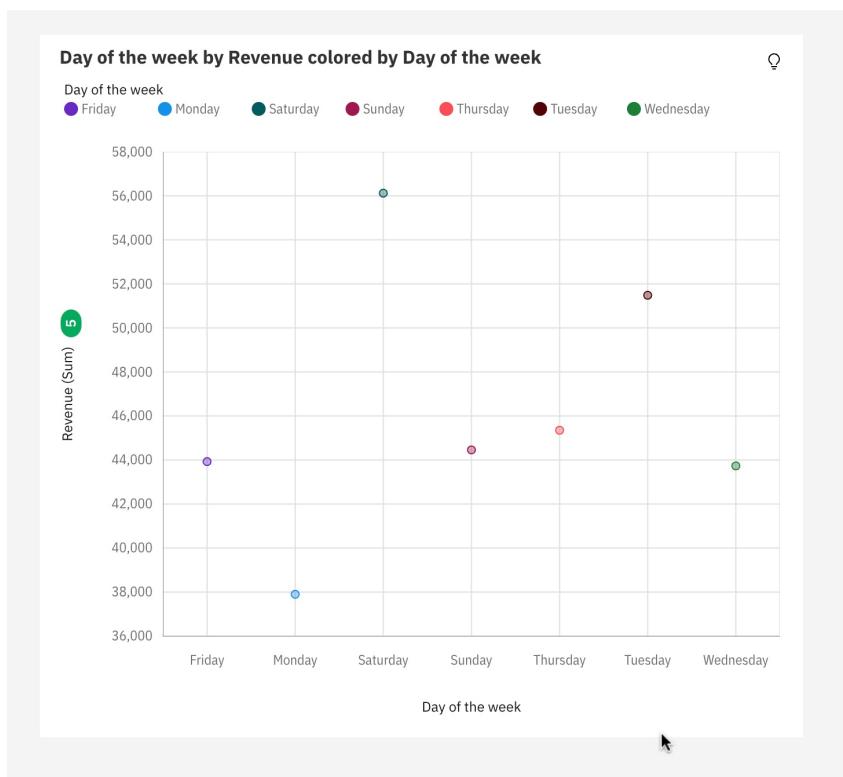
Line position*

Required field

⋮ Profit

Click or drag data here

Scatter:



Fields

▣ Points

Click or drag data here

↑ x-axis*

Required field

⋮ Day of the week

Click or drag data here

↑ y-axis*

Required field

⋮ Revenue

Click or drag data here

🎨 Color

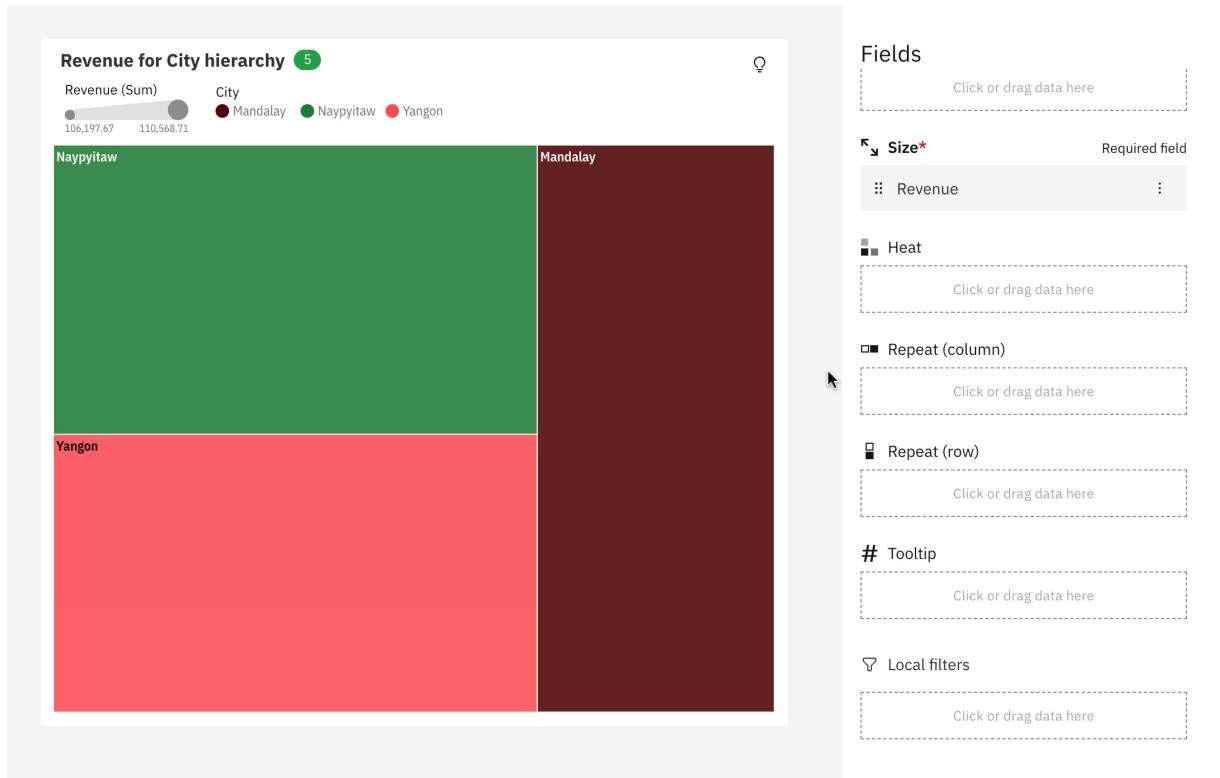
⋮ Day of the week

Click or drag data here

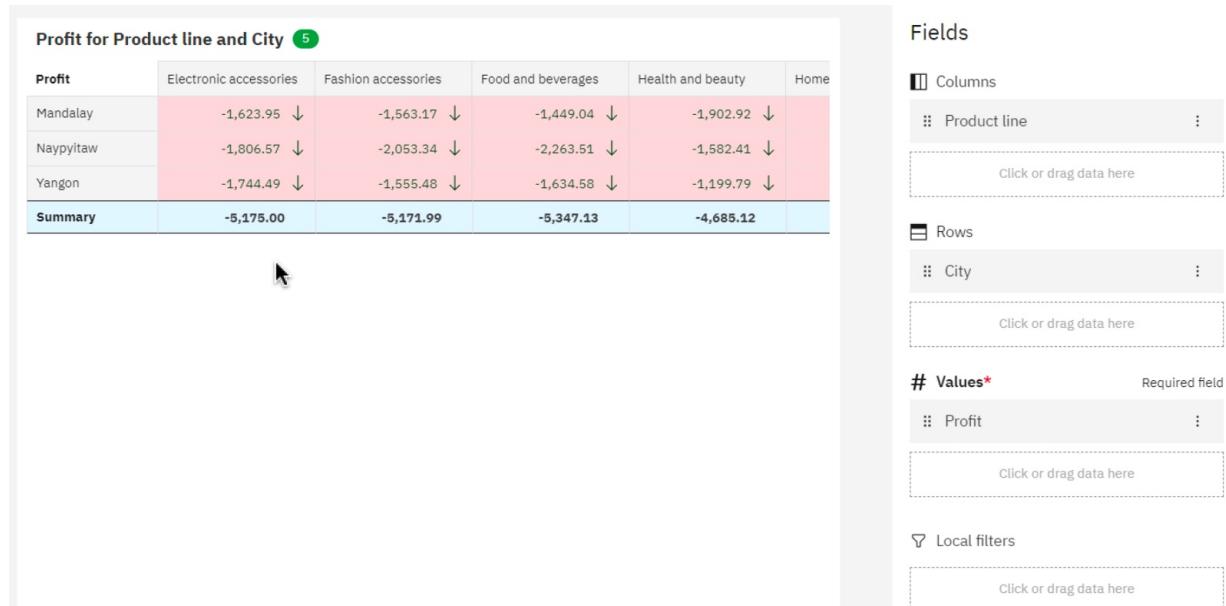
▣ Repeat (column)

Click or drag data here

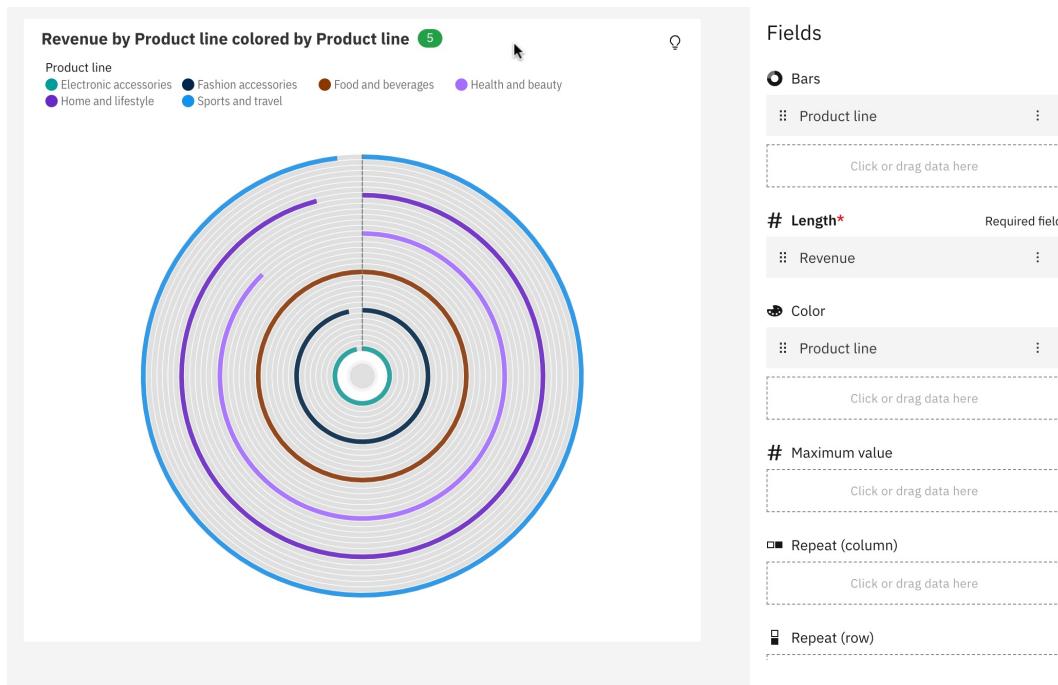
Tree:



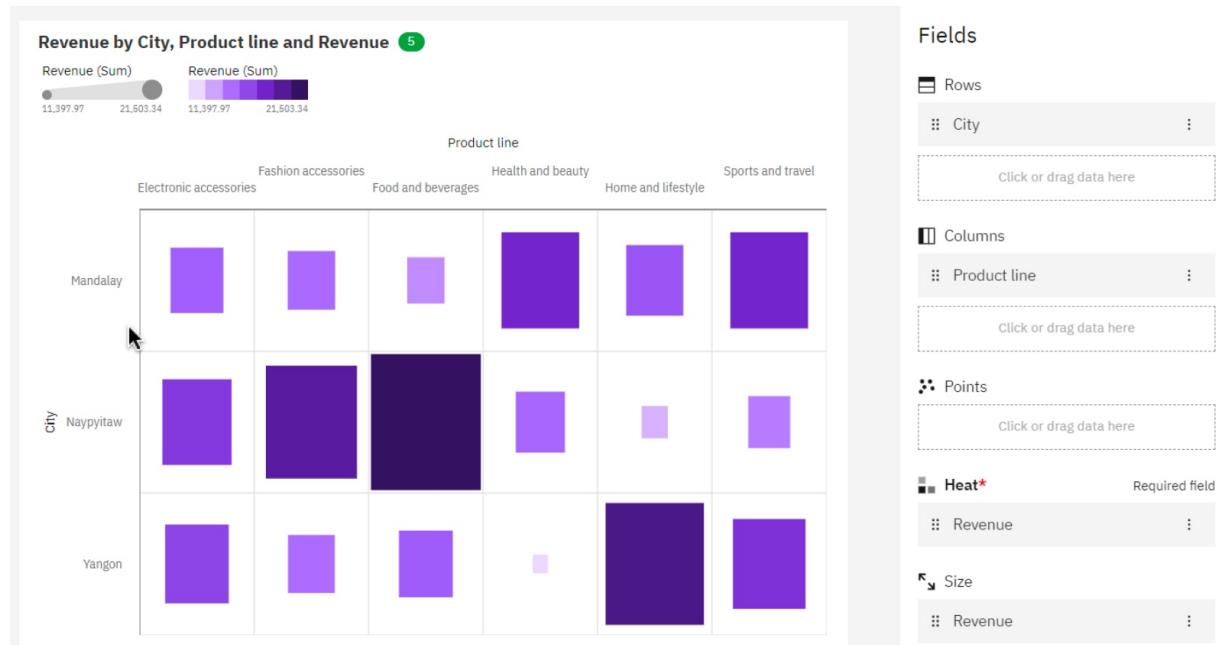
crosstab:



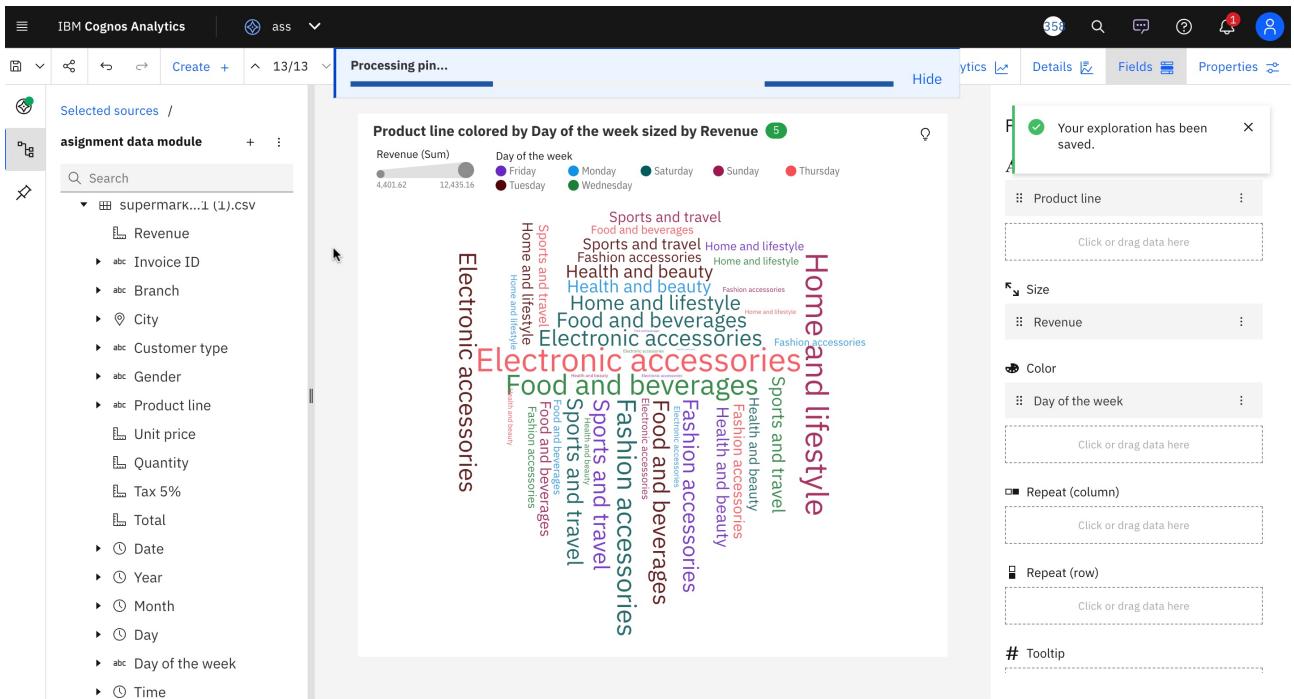
Radial:



Heat map:



word cloud:



Line :

