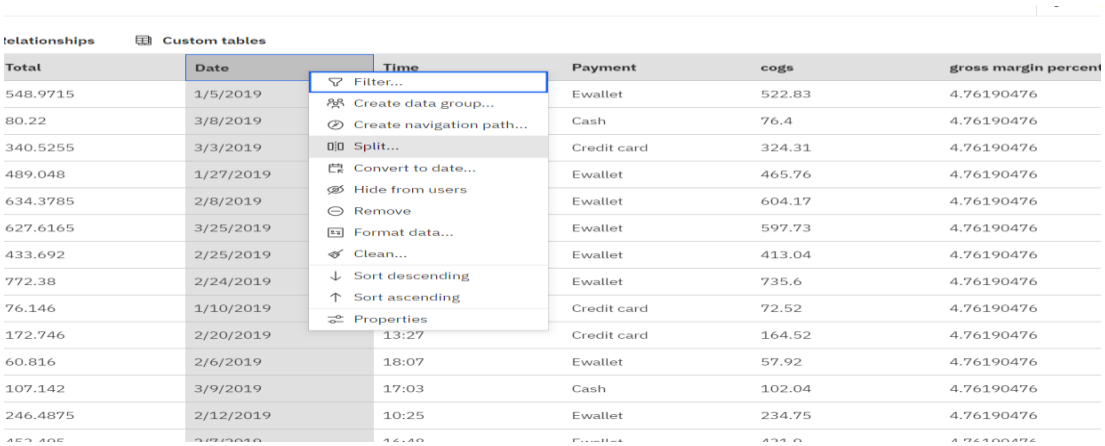
# ASSIGNMENT-1

## Data Analytics with IBM Cognos

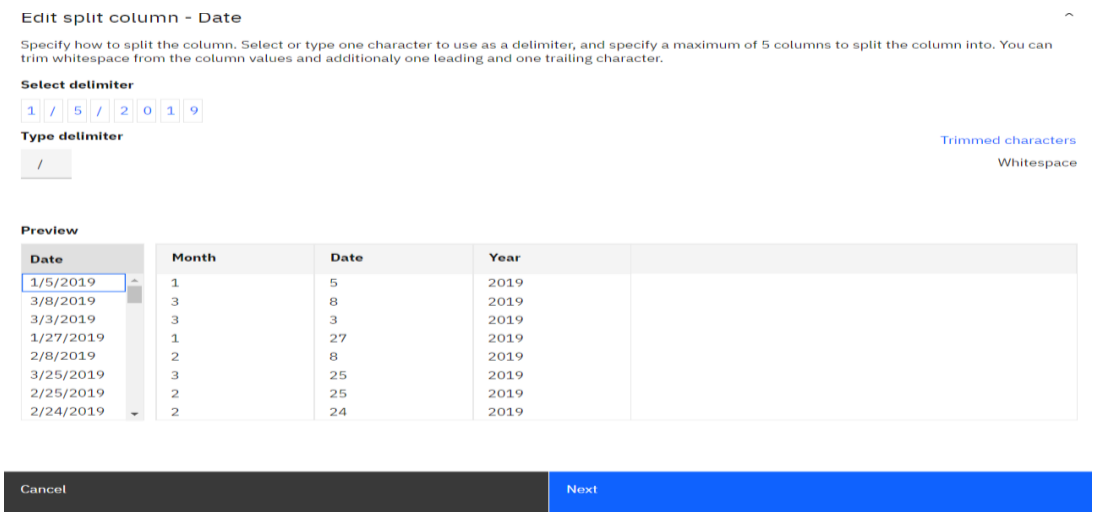
**Name**: J.Abhiram

**RegNo**: 21BCB7107

# Splitting Date into Month ,Date, Year:




| 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 |



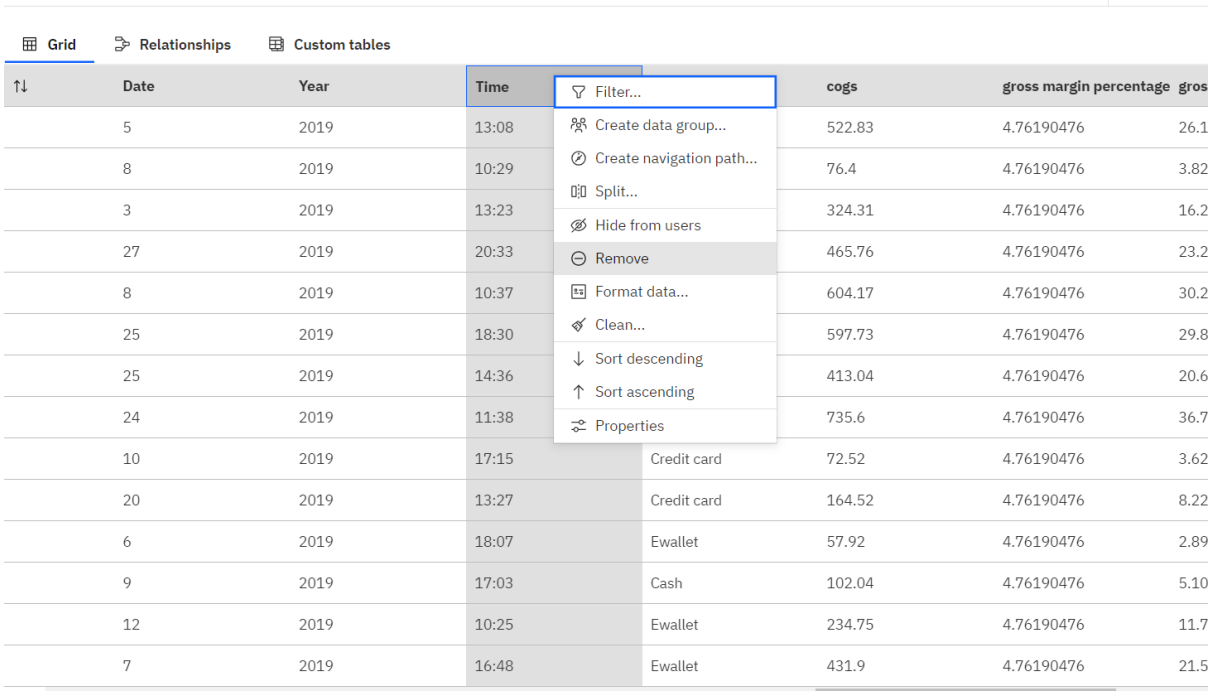

| Date | Month | Date | Year |
|---|---|---|---|
| 1/5/2019 | 1 | 5 | 2019 |
| 3/8/2019 | 3 | 8 | 2019 |
| 3/3/2019 | 3 | 3 | 2019 |
| 1/27/2019 | 1 | 27 | 2019 |
| 2/8/2019 | 2 | 8 | 2019 |
| 3/25/2019 | 3 | 25 | 2019 |
| 2/25/2019 | 2 | 25 | 2019 |
| 2/24/2019 | 2 | 24 | 2019 |

Month Date Year

nships 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:



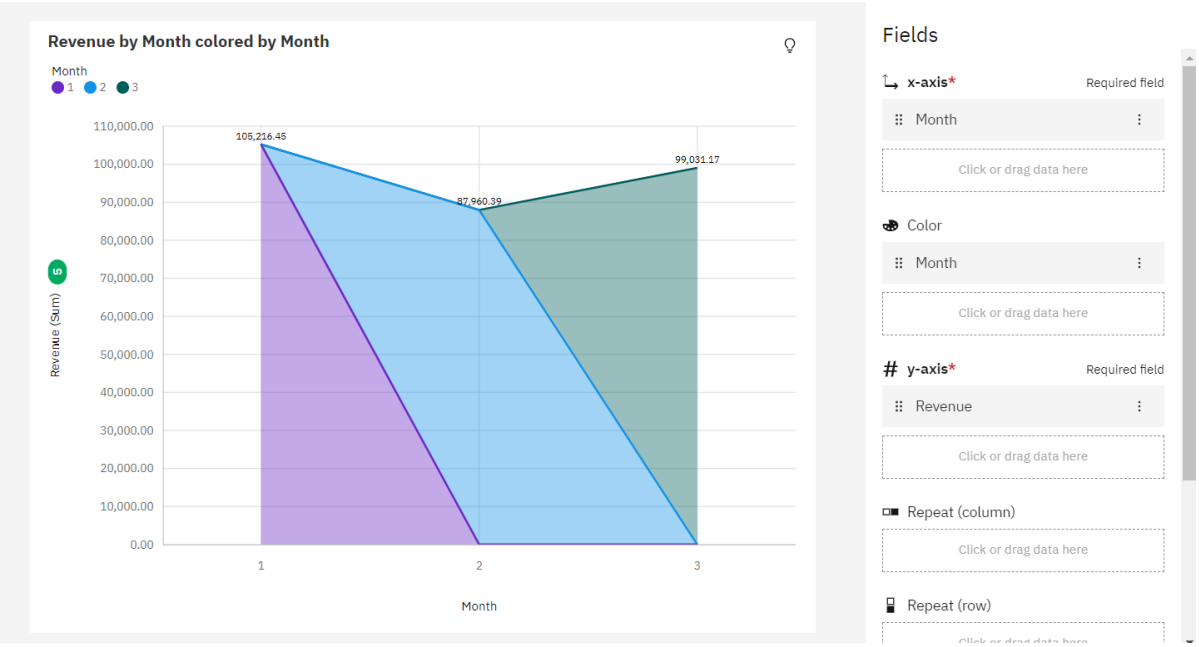
Grid | Relationships | Custom tables

| ↑↓ | Date | Year | Time | | cogs | gross margin percentage | gros |
|---|---|---|---|---|---|---|---|
| | 5 | 2019 | 13:08 | | 522.83 | 4.76190476 | 26.1 |
| | 8 | 2019 | 10:29 | | 76.4 | 4.76190476 | 3.82 |
| | 3 | 2019 | 13:23 | | 324.31 | 4.76190476 | 16.2 |
| | 27 | 2019 | 20:33 | | 465.76 | 4.76190476 | 23.2 |
| | 8 | 2019 | 10:37 | | 604.17 | 4.76190476 | 30.2 |
| | 25 | 2019 | 18:30 | | 597.73 | 4.76190476 | 29.8 |
| | 25 | 2019 | 14:36 | | 413.04 | 4.76190476 | 20.6 |
| | 24 | 2019 | 11:38 | | 735.6 | 4.76190476 | 36.7 |
| | 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 |

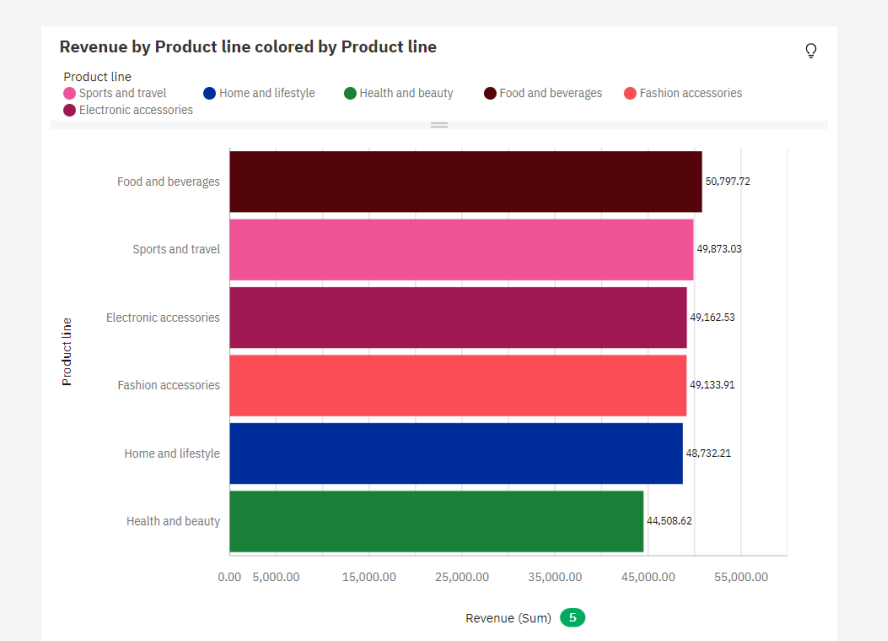
Filter...
Create data group...
Create navigation path...
Split...
Hide from users
Remove
Format data...
Clean...
Sort descending
Sort ascending
Properties

## After we have to start the visualisations,

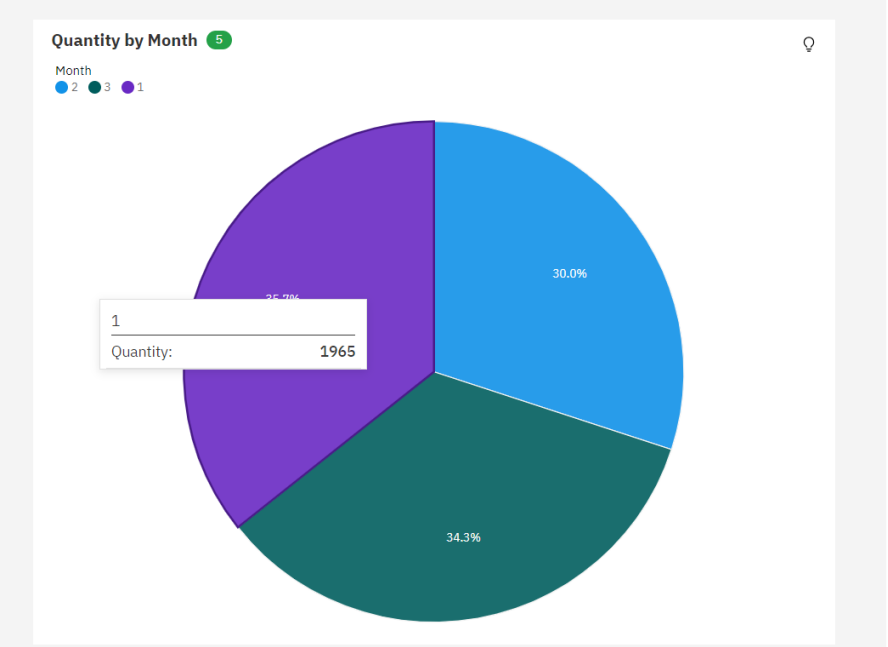
## Area:



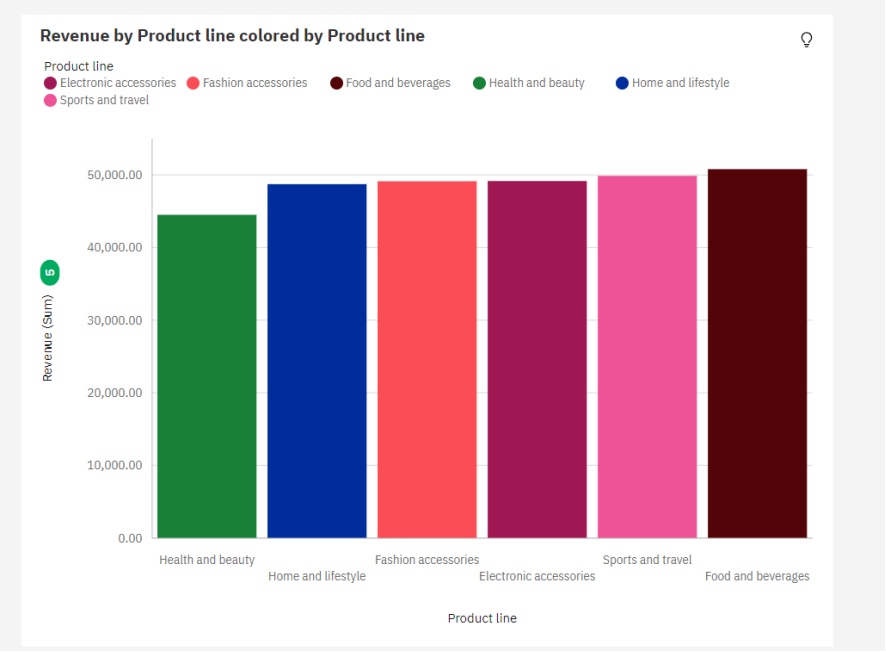
# Bar:


Revenue by Product line colored by Product line
Product line
Sports and travel
Home and lifestyle
Health and beauty
Food and beverages
Fashion accessories
Electronic accessories
Food and beverages
Sports and travel
Electronic accessories
Fashion accessories
Home and lifestyle
Health and beauty
50,797.72
49,873.03
49,162.53
49,133.91
48,732.21
44,508.62
Product line
0.00
5,000.00
15,000.00
25,000.00
35,000.00
45,000.00
55,000.00
Revenue (Sum)
5
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

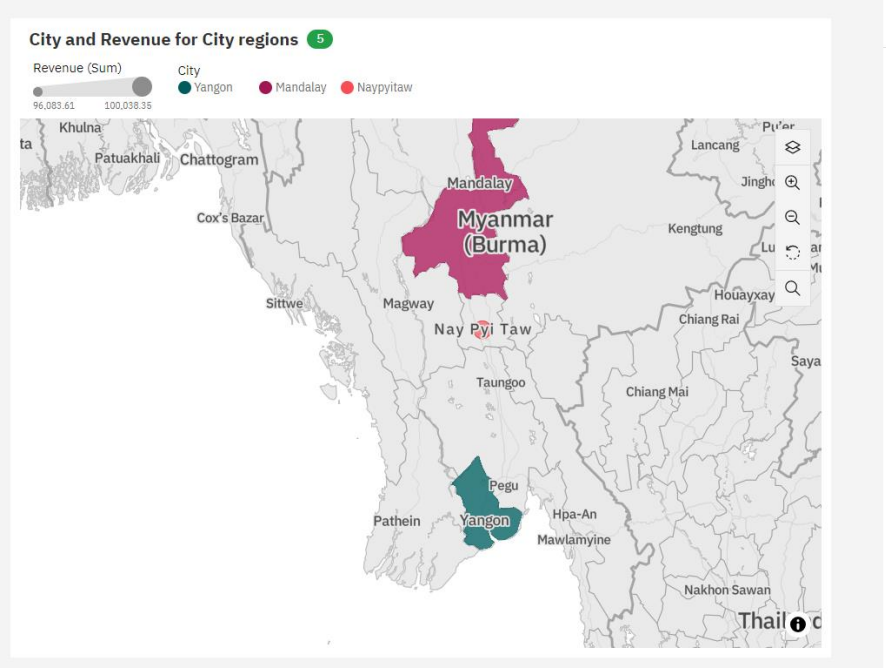
# Pie:


Quantity by Month
5
Month
2
3
1
30.0%
34.3%
1
Quantity:
1965
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

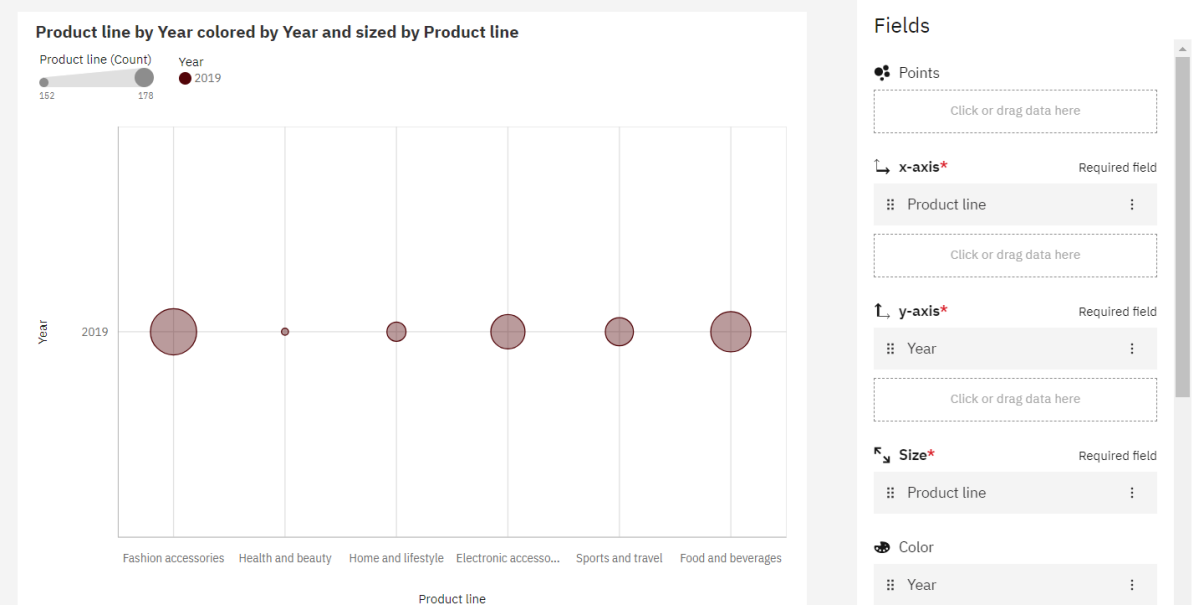
# Column:


Revenue by Product line colored by Product line
Product line
Electronic accessories
Fashion accessories
Food and beverages
Health and beauty
Home and lifestyle
Sports and travel
50,000.00
40,000.00
30,000.00
20,000.00
10,000.00
0.00
Revenue (Sum)
5
Health and beauty
Home and lifestyle
Fashion accessories
Electronic accessories
Sports and travel
Food and beverages
Product line
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

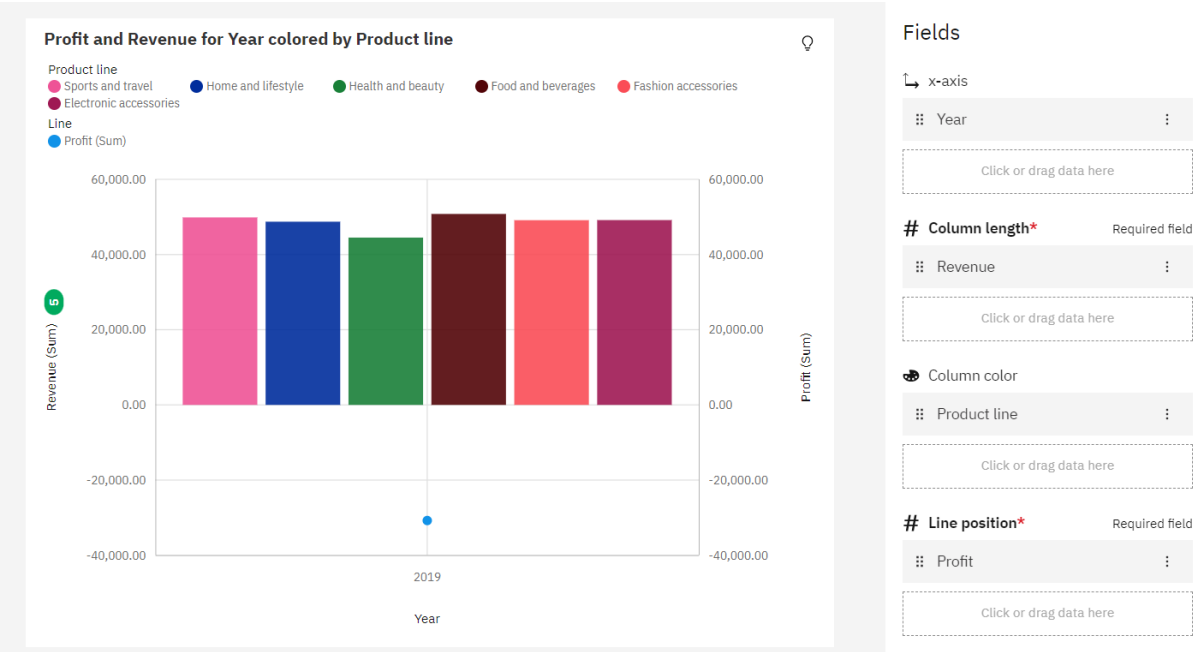
# Map:


City and Revenue for City regions
5
Revenue (Sum)
96,083.61
100,038.35
City
Yangon
Mandalay
Naypyitaw
Khulna
Patuakhali
Chattogram
Cox's Bazar
Mandalay
Myanmar
(Burma)
Lancang
Kengtung
Sittwe
Magway
Nay Pyi Taw
Houayxay
Chiang Rai
Taungoo
Chiang Mai
Pegu
Pathein
Yangon
Hpa-An
Mawlamyine
Nakhon Sawan
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

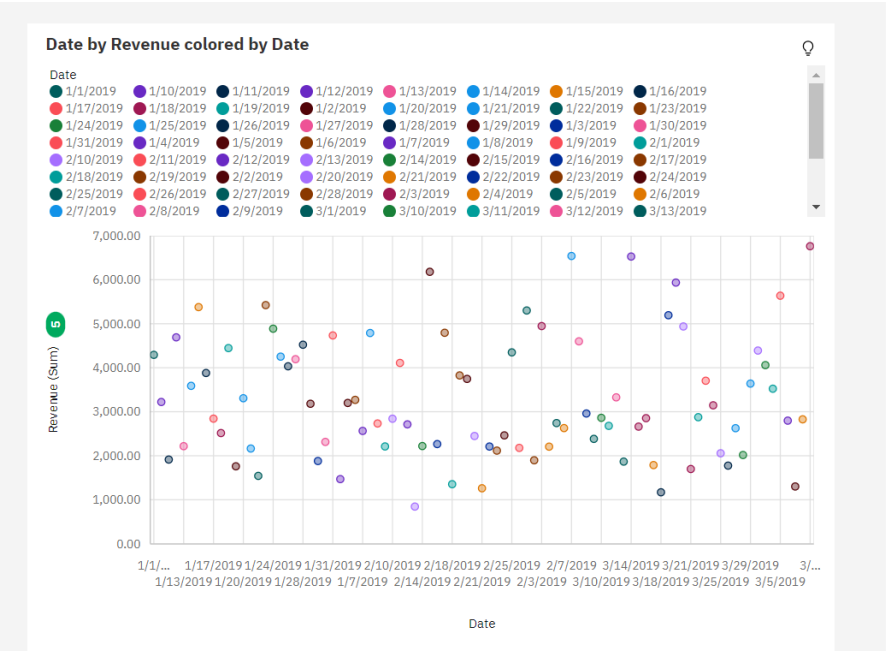
# Bubble:



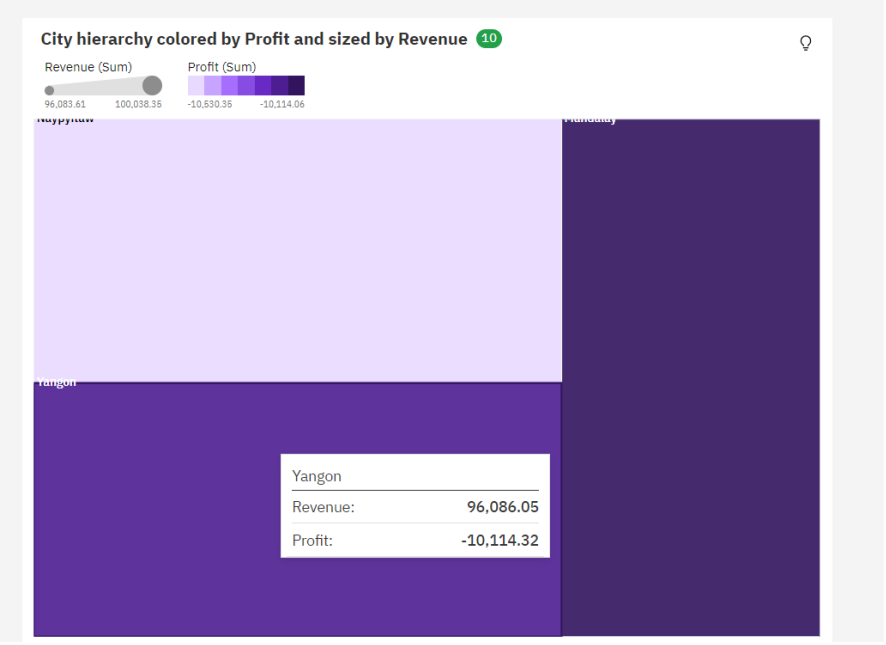

# Line and column:



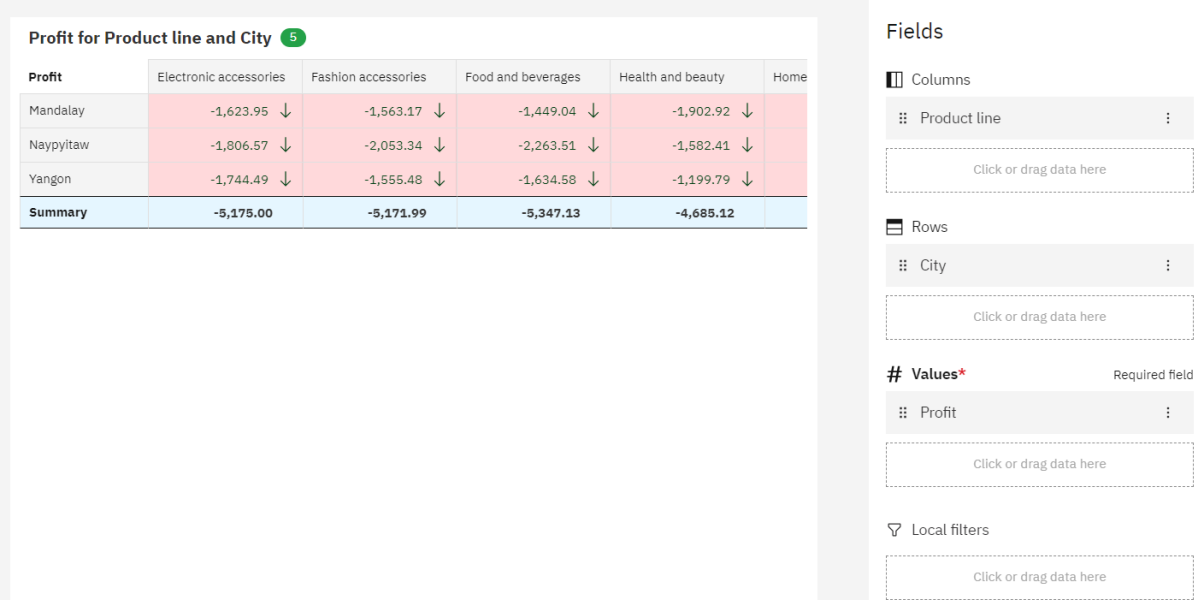
# Scatter:




# Tree:



# Crosstab:

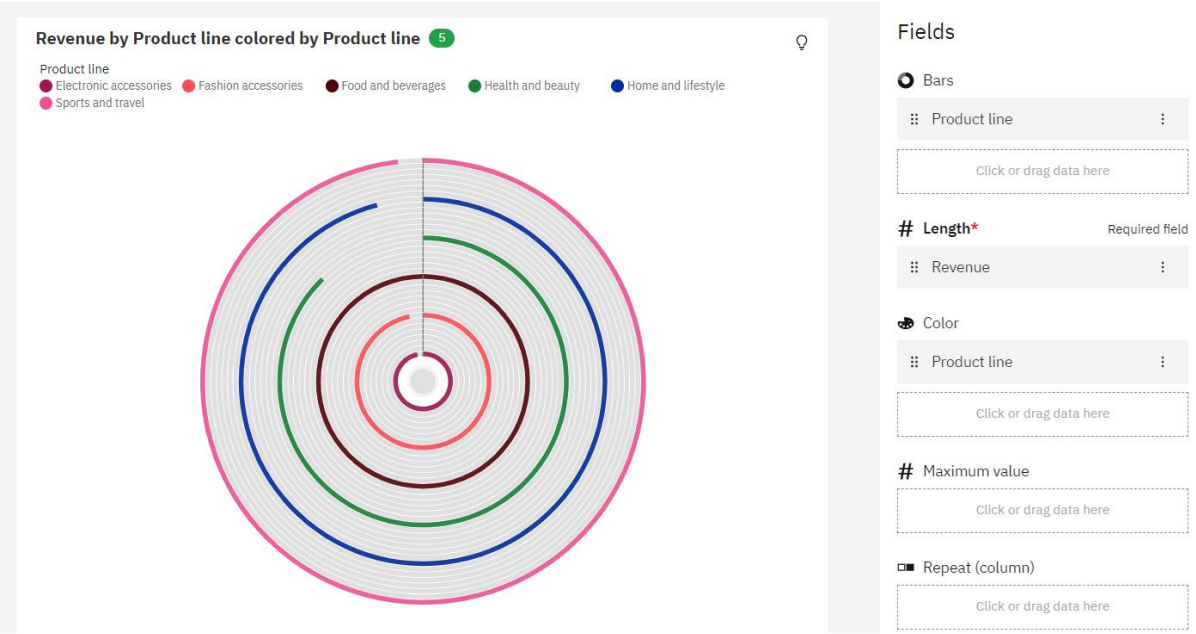


Profit for Product line and City 5

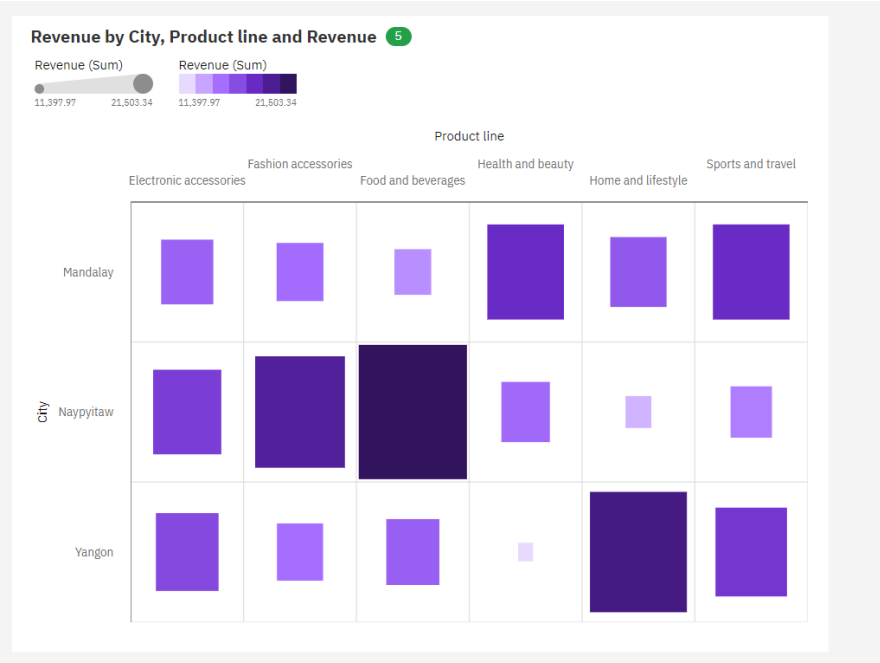
| Profit | Electronic accessories | Fashion accessories | Food and beverages | Health and beauty | Home |
|---|---|---|---|---|---|
| Mandalay | -1,623.95 ↓ | -1,563.17 ↓ | -1,449.04 ↓ | -1,902.92 ↓ | |
| Naypyitaw | -1,806.57 ↓ | -2,053.34 ↓ | -2,263.51 ↓ | -1,582.41 ↓ | |
| Yangon | -1,744.49 ↓ | -1,555.48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



# Radial:

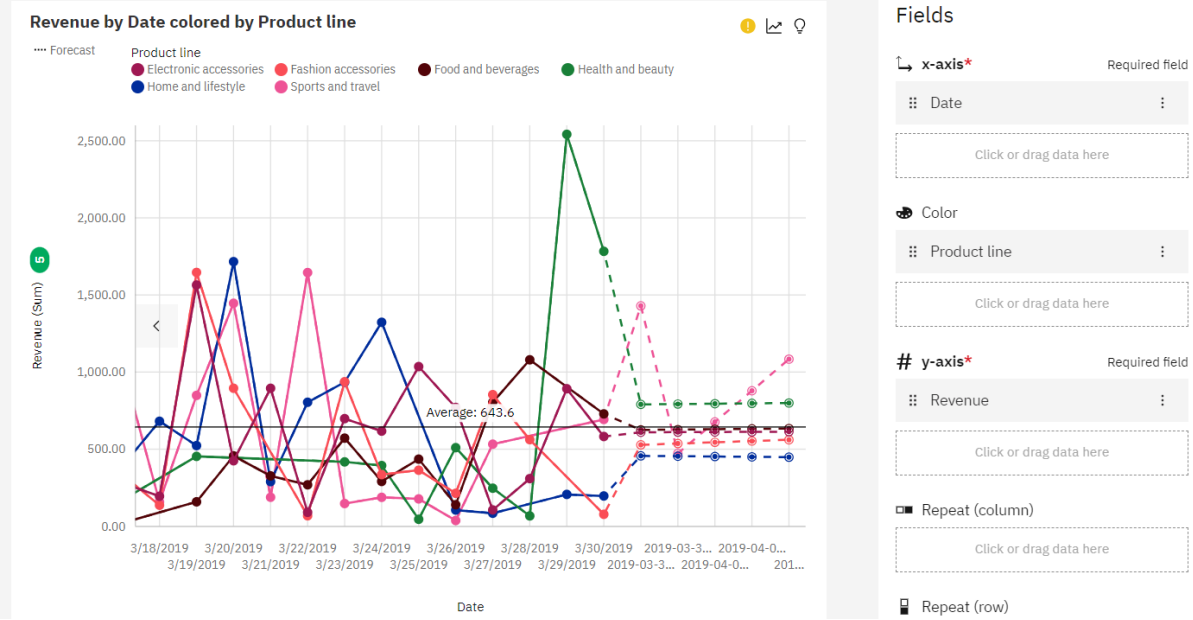


# Heat map:




# Word Cloud:

# 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.