

# DATA ANALYTICS

## ASSIGNMENT-1

Name: Sakthipraveena S

Regno:21BLC1540

### 1. Uploading dataset in IBM Cognos:

#### Upload data and start creating content

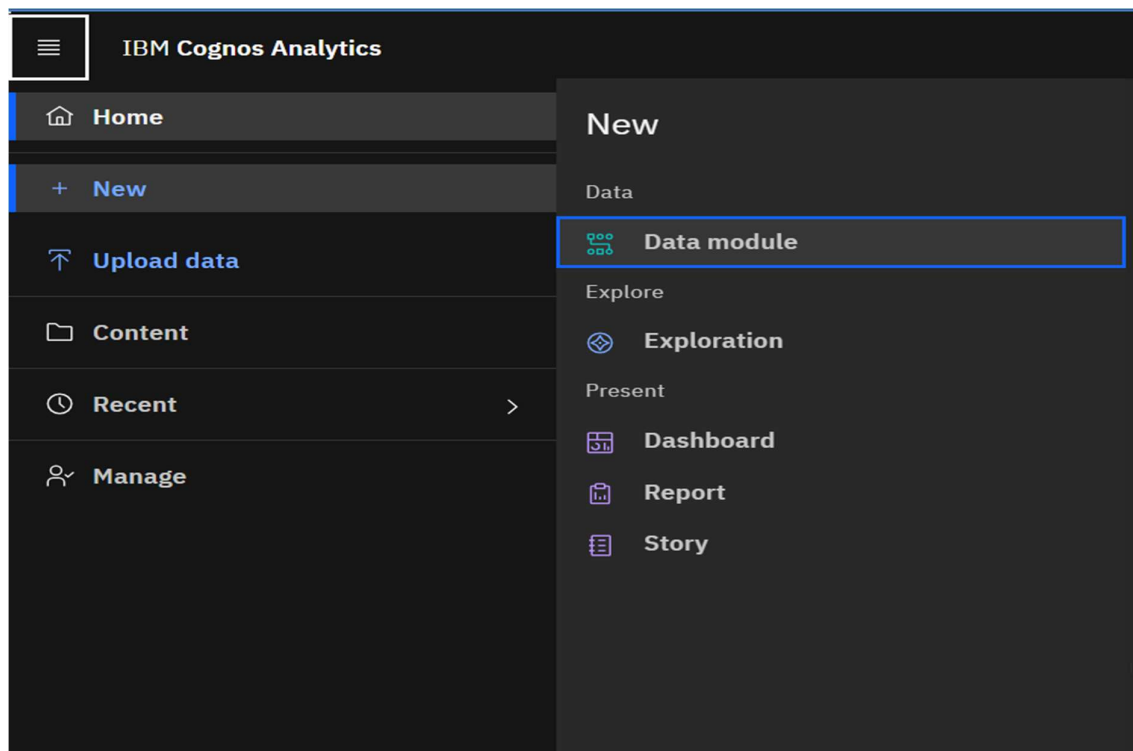
You can upload supported file types that are stored in any location to which your computer has local or LAN access.

Add file

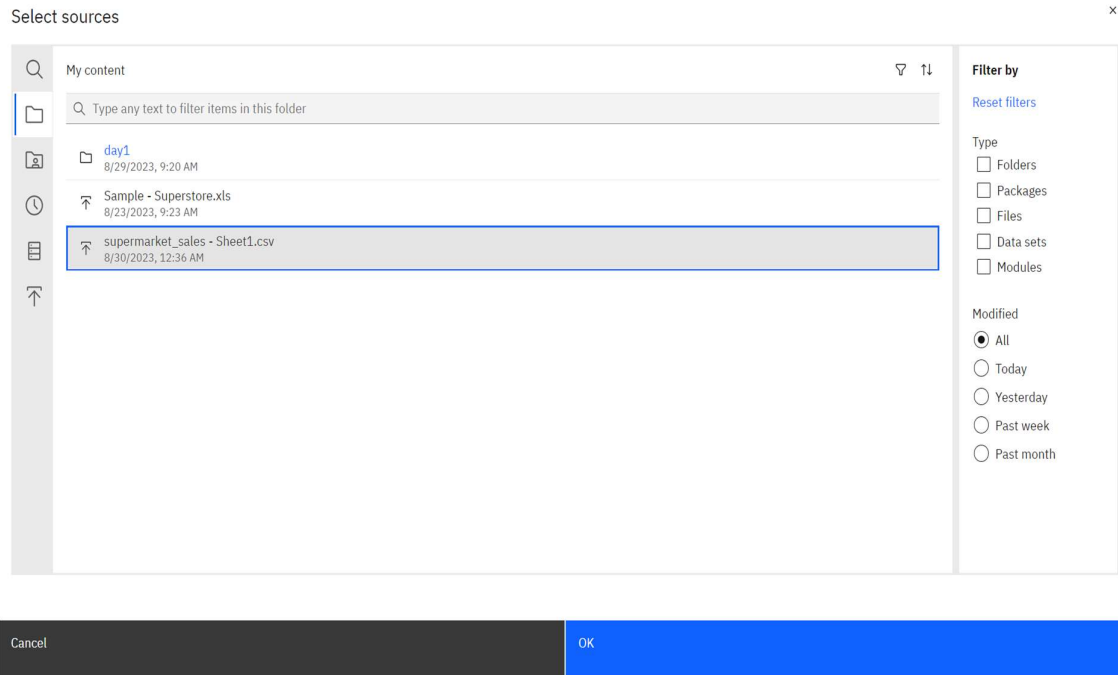
supermarket\_sales - Sheet1.csv



### 2. Creating data module



### 3. Selecting supermarket dataset



### 4. Table values

Sources

supermarket\_sales - Sheet1.csv

Data module

supermarket\_sales - Sheet1.csv

- # Row Id
- Invoice ID
- Branch
- City
- Customer type
- Gender
- Product line
- Unit price
- Quantity
- Tax 5%
- Total
- Date
- Time
- Payment
- cogs
- gross margin percentage
- gross income

Grid

Row Id	Invoice ID	Branch	City	Customer type
1	750-67-8428	A	Yangon	Member
2	226-31-3081	C	Naypyitaw	Normal
3	631-41-3108	A	Yangon	Normal
4	123-19-1176	A	Yangon	Member
5	373-73-7910	A	Yangon	Normal
6	699-14-3026	C	Naypyitaw	Normal
7	355-53-5943	A	Yangon	Member
8	315-22-5665	C	Naypyitaw	Normal
9	665-32-9167	A	Yangon	Member
10	692-92-5582	B	Mandalay	Member
11	351-62-0822	B	Mandalay	Member
12	529-56-3974	B	Mandalay	Member
13	365-64-0515	A	Yangon	Normal
14	252-56-2699	A	Yangon	Normal
15	829-34-3910	A	Yangon	Normal
16	299-46-1805	B	Mandalay	Member

## 5. Removing time column

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields including 'Date' and 'Time'. The 'Time' field is selected. In the center, a data grid displays columns for 'Date', 'Time', and 'cogs'. A context menu is open over the 'Time' column, with the 'Remove' option highlighted. The grid contains data for various dates and times, with corresponding 'cogs' values.

## 6. Splitting date column

The screenshot shows the 'Split column - Date' dialog box. It prompts the user to 'Select the items that will be used to create new columns.' Below this, there are three input fields for 'Year', 'Month', and 'Day', each containing a value (2019, 1, and 5 respectively). A checkbox labeled 'Include the day of the week' is checked. Below the input fields is a 'Preview' section showing a table with the following data:

Date	Year	Month	Day	Day of the week
2019-01-05	2019	1	5	Saturday
2019-02-06	2019	2	6	Wednesday
2019-03-29	2019	3	29	Friday
2019-03-11	2019	3	11	Monday
2019-03-22	2019	3	22	Friday
2019-02-10	2019	2	10	Sunday
2019-03-27	2019	3	27	Wednesday
2019-03-12	2019	3	12	Tuesday
2019-02-14	2019	2	14	Thursday
2019-01-24	2019	1	24	Thursday

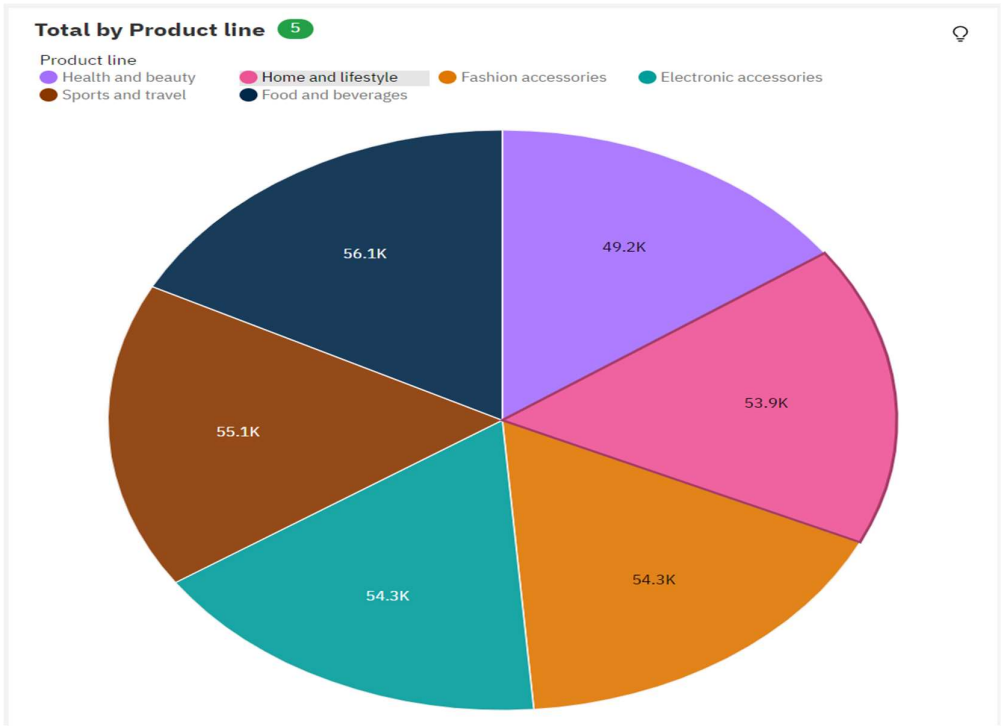
At the bottom of the dialog, there are two buttons: 'Cancel' and 'Next'.

Exploration and Visualization:

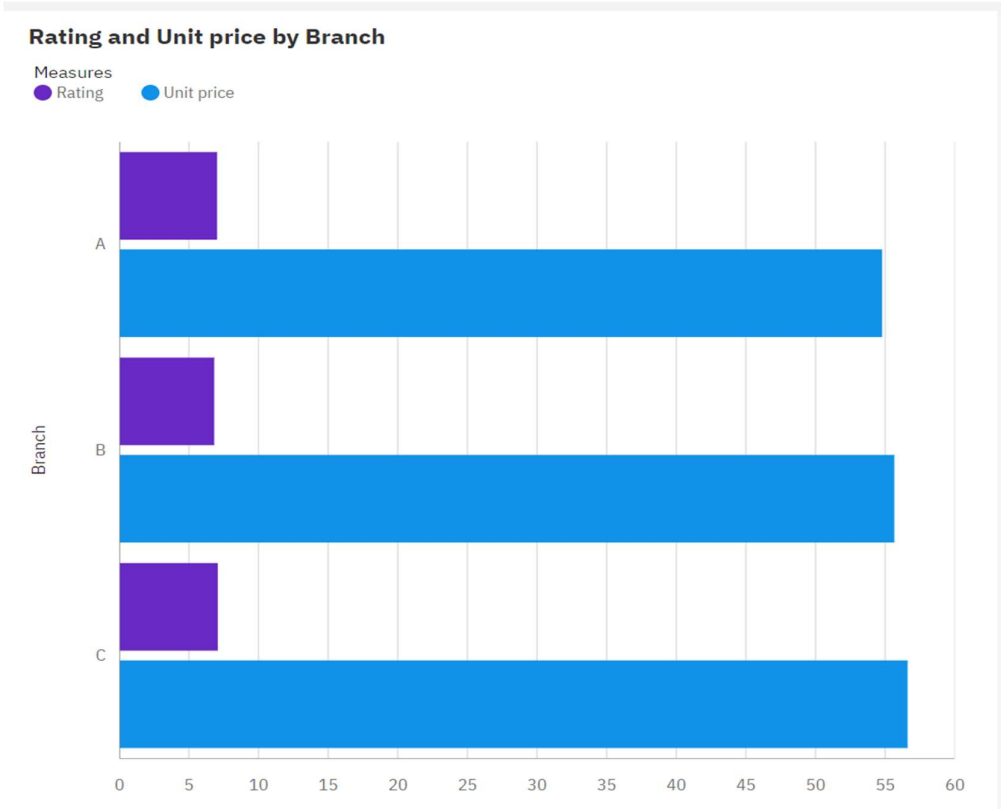
HIERARCHY BUBBLE CHART



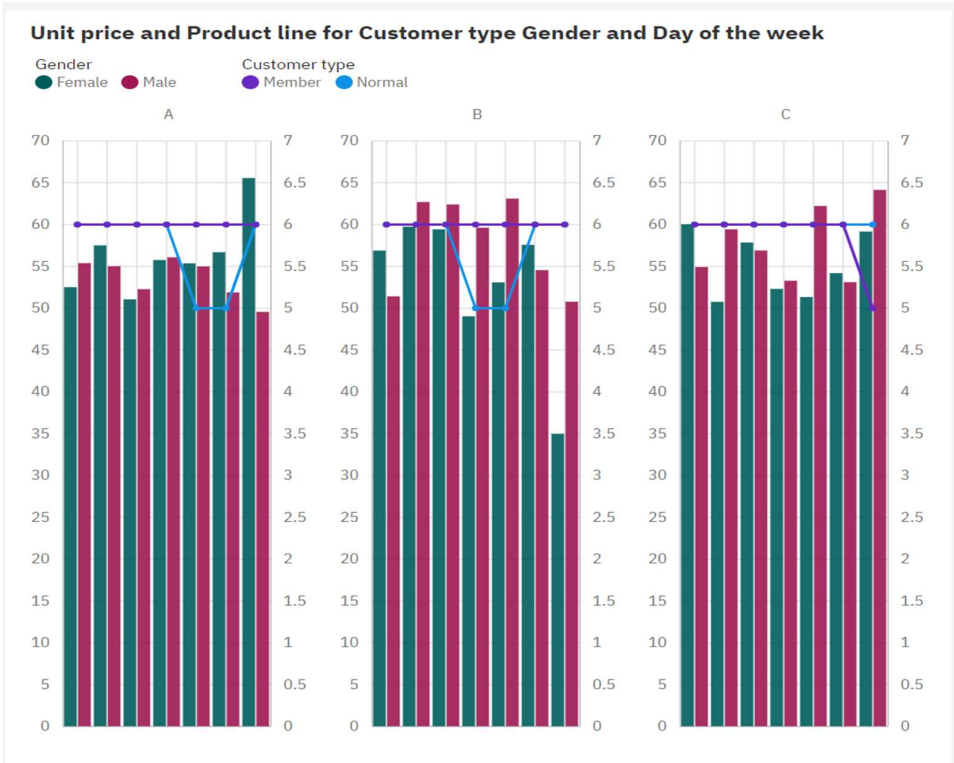
PIE CHART



BAR CHART



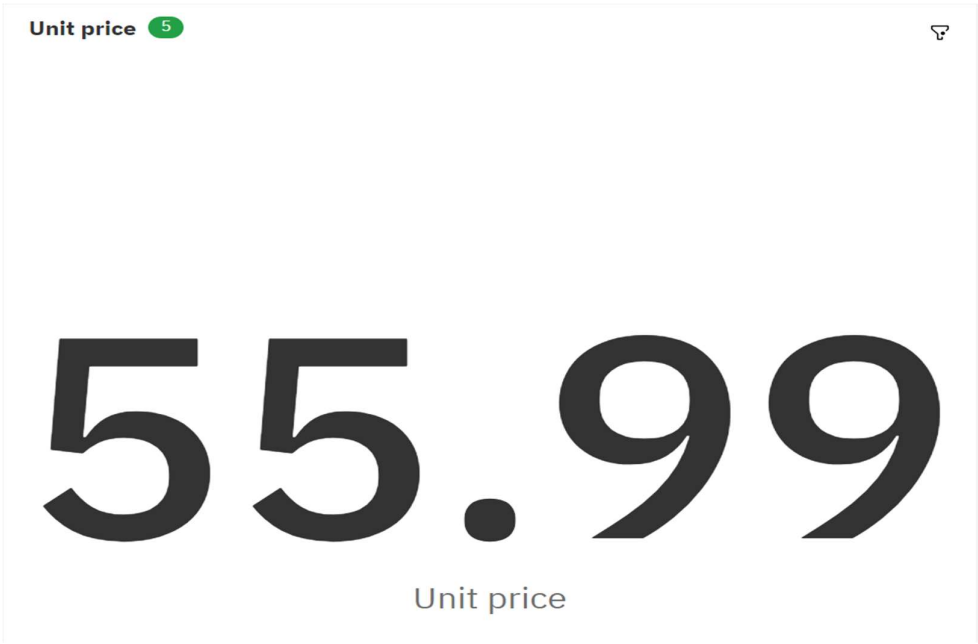
# LINE AND COLUMN GRAPH



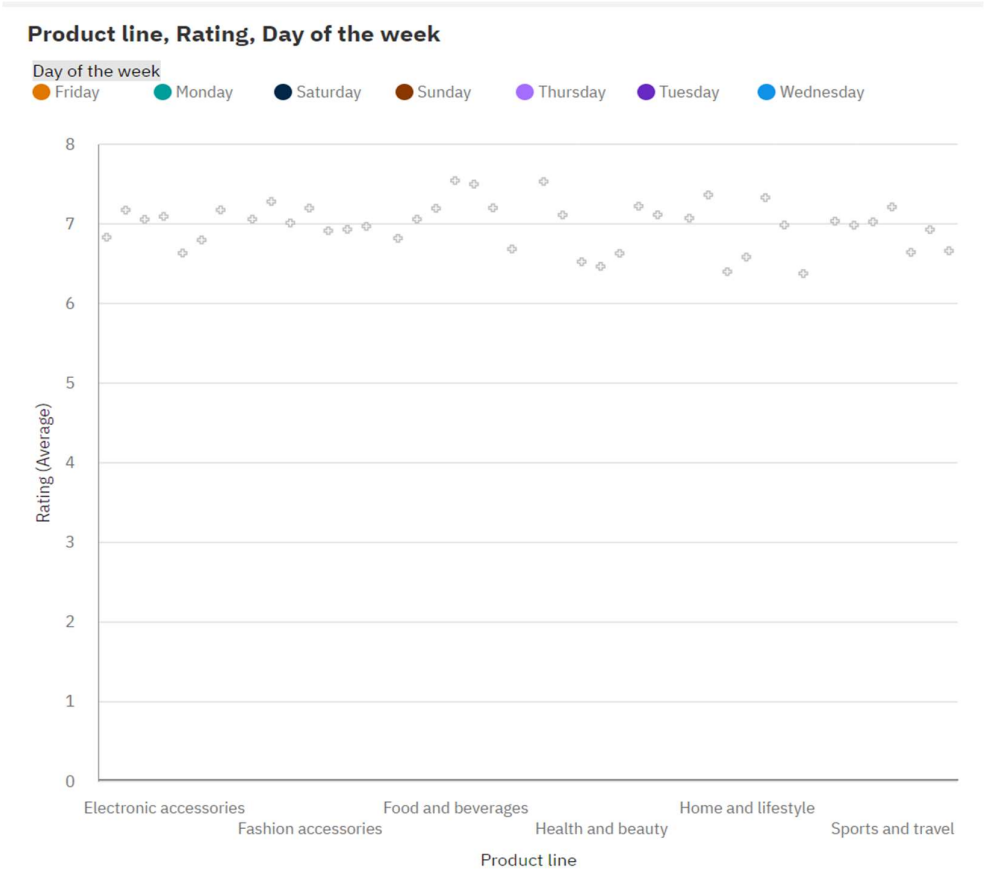
# DECISION TREE



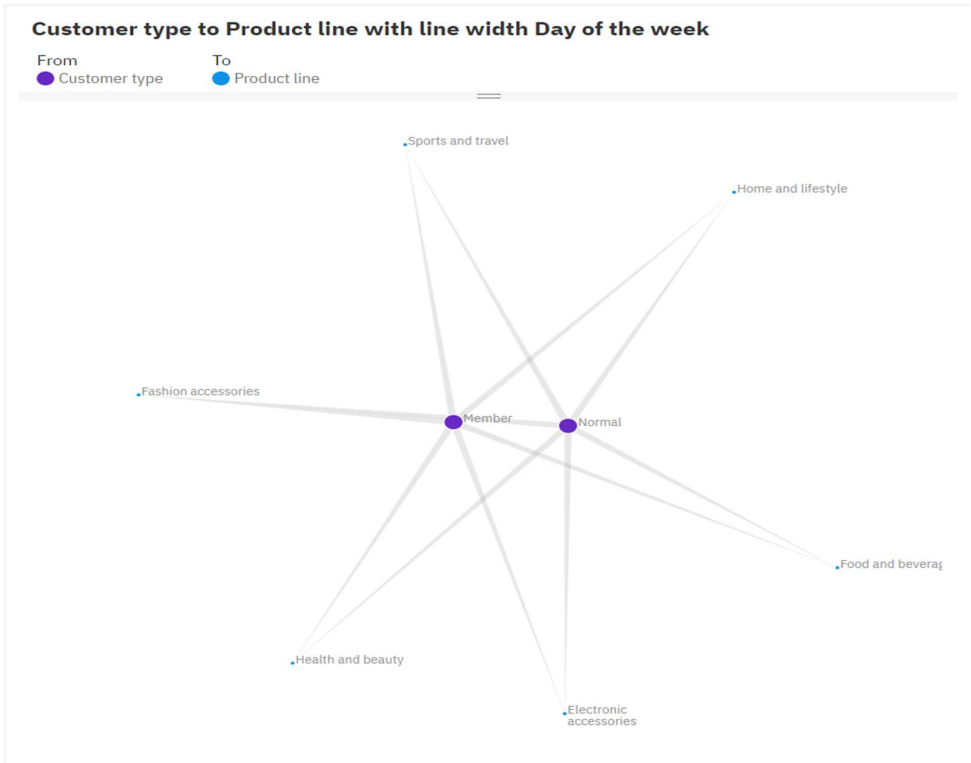
SUMMARY CHART



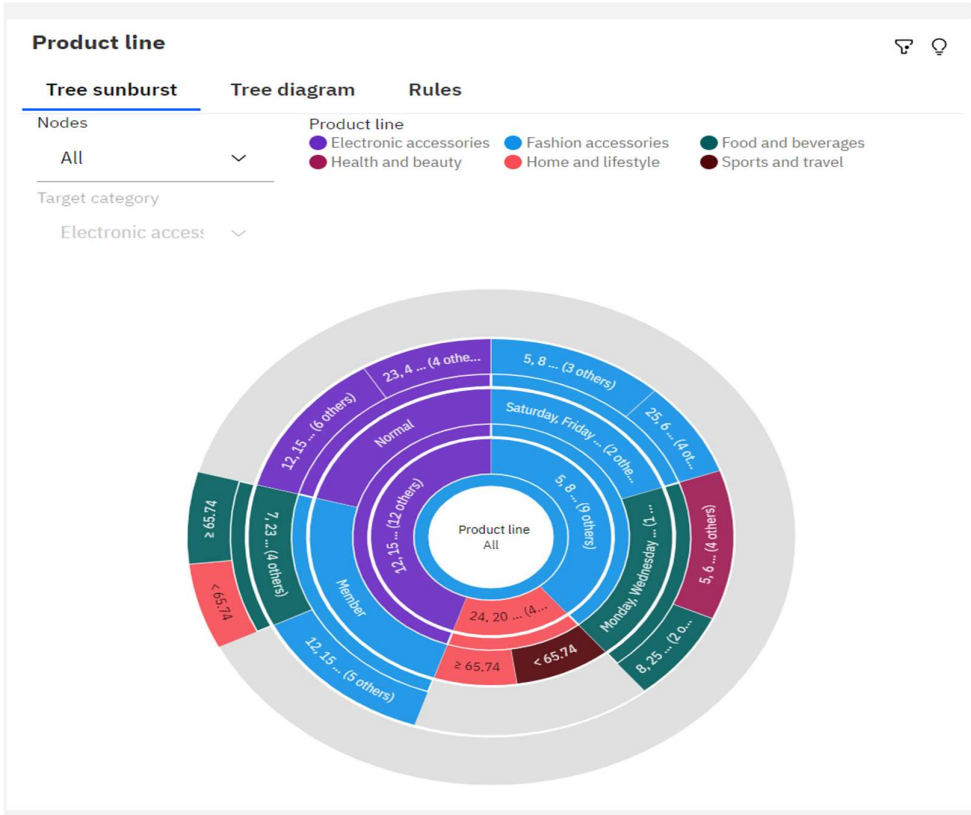
BOXPLOT



# NETWORK CHART

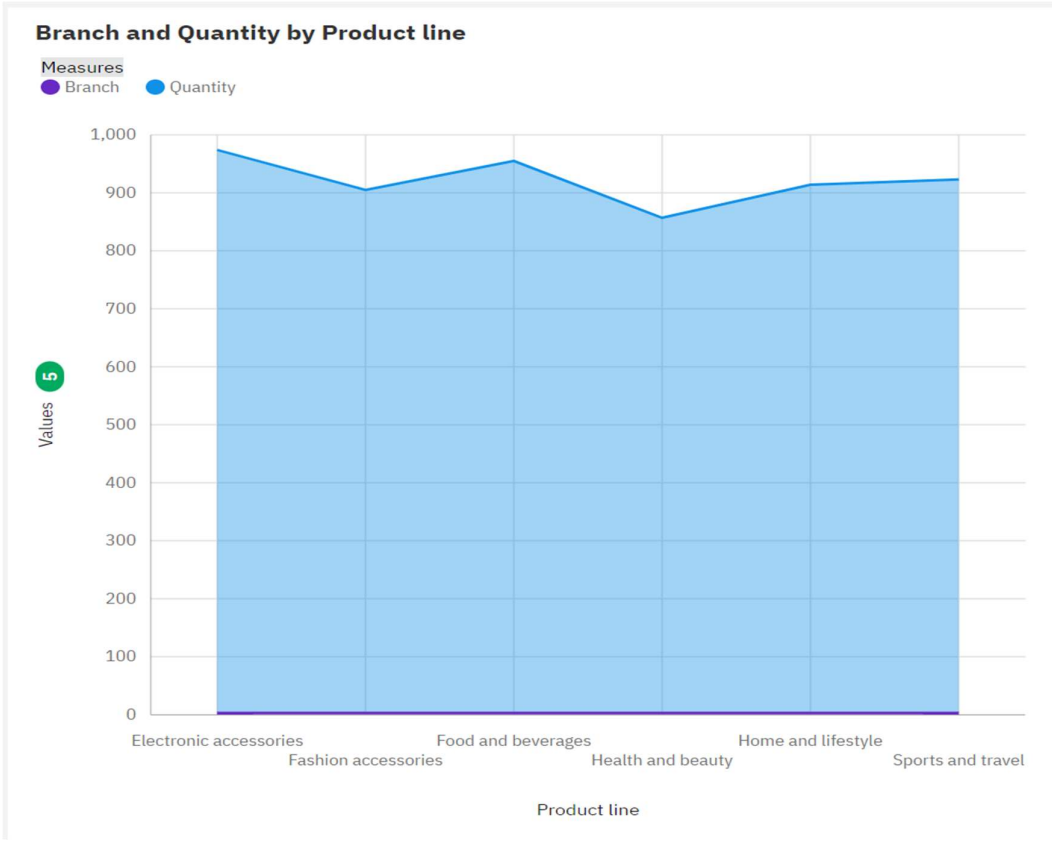


# SUNBURST CHART





AREA CHART



MAP CHART

