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DATA ANALYTICS WITH IBM COGNOS ASSIGNMENT-1

1. Uploading dataset in IBM Cognos:

Upload data and start creating content

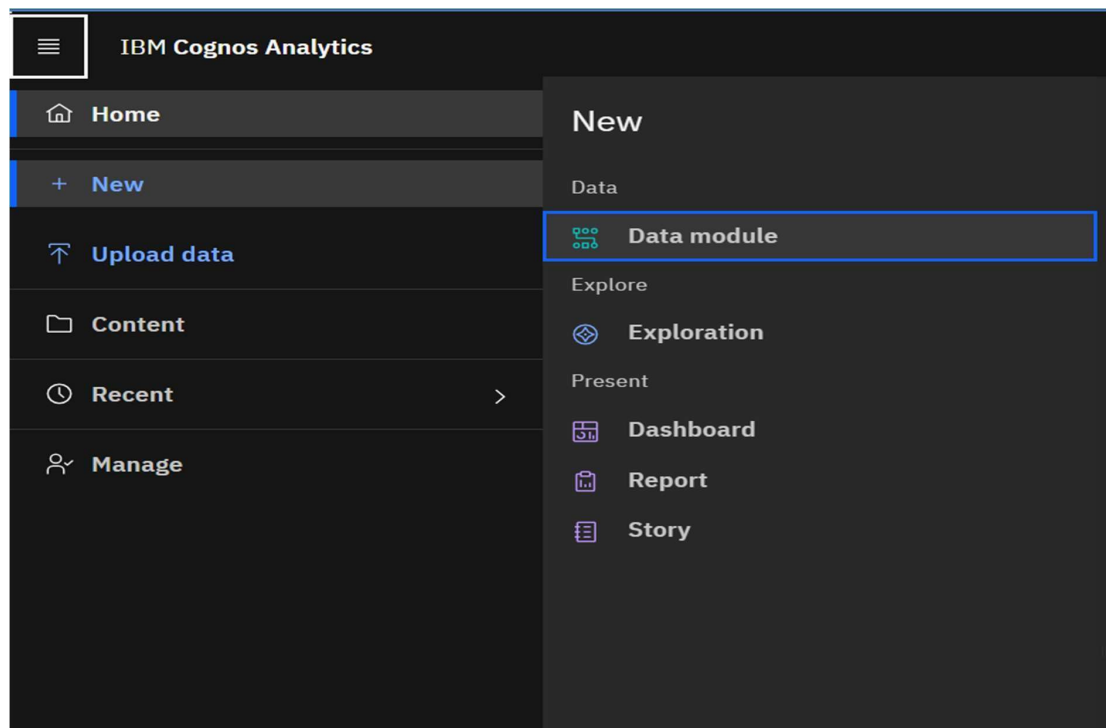
You can upload supported file types that are stored in any location to which your computer has local or LAN access.

Add file

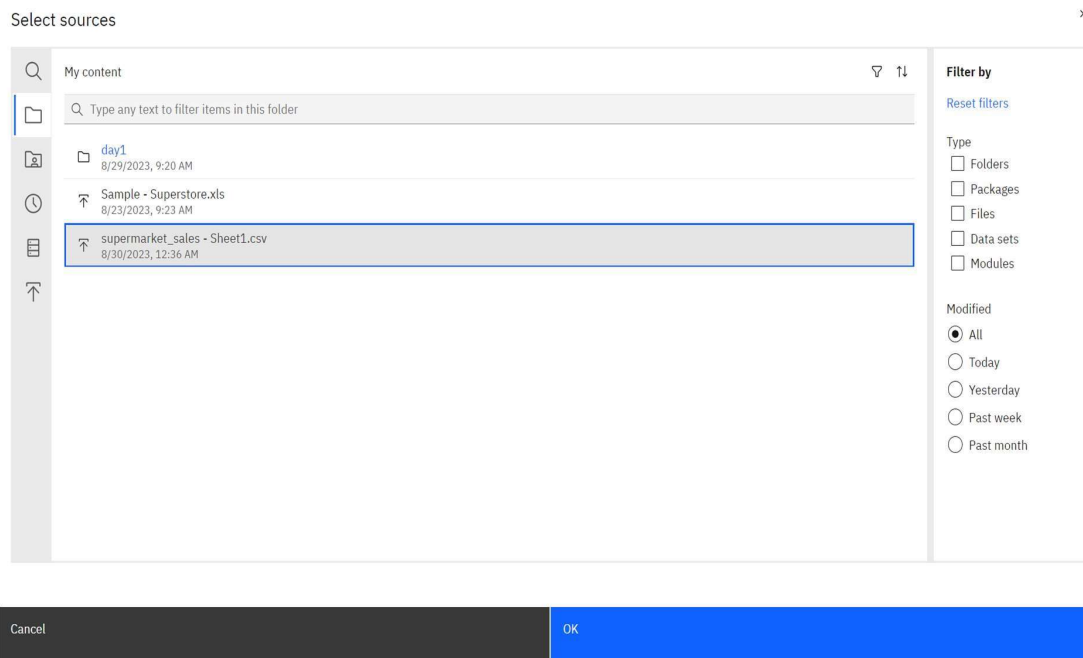
supermarket_sales - Sheet1.csv



2. Creating data module



3. Selecting supermarket dataset



4. Table values

Sources

Search

- supermarket_sales - Sheet1.csv

Data module

Search

- 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
- Profit

Grid Relationships Custom tables

Row Id	Invoice ID	Branch	City	Customer type	Profit
1	750-67-8428	A	Yangon	Member	11.93
2	226-31-3081	C	Naypyitaw	Normal	1.98
3	631-41-3108	A	Yangon	Normal	1.98
4	123-19-1176	A	Yangon	Member	11.93
5	373-73-7910	A	Yangon	Normal	1.98
6	699-14-3026	C	Naypyitaw	Normal	1.98
7	355-53-5943	A	Yangon	Member	11.93
8	315-22-5665	C	Naypyitaw	Normal	1.98
9	665-32-9167	A	Yangon	Member	11.93
10	692-92-5582	B	Mandalay	Member	11.93
11	351-62-0822	B	Mandalay	Member	11.93
12	529-56-3974	B	Mandalay	Member	11.93
13	365-64-0515	A	Yangon	Normal	1.98
14	252-56-2699	A	Yangon	Normal	1.98
15	829-34-3910	A	Yangon	Normal	1.98
16	299-46-1805	B	Mandalay	Member	11.93

5. Removing time column

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Sources' pane lists 'supermarket_... Sheet1.csv'. The 'Data module' pane shows a tree structure with 'Time' selected. The main 'Grid' pane displays a table with columns 'Date', 'Time', and 'cogs'. A context menu is open over the 'Time' column, showing options like 'Filter...', 'Create navigation path...', 'Split...', 'Hide from users', 'Remove', 'Format data...', 'Clean...', 'Sort descending', 'Sort ascending', and 'Properties'.

Date	Time	cogs
2019-01-05	13:08	522.83
2019-03-08	10:29	76.4
2019-03-03	13:23	324.31
2019-01-27	20:33	465.76
2019-02-08	10:37	604.17
2019-03-25	18:30	597.73
2019-02-25	14:36	413.04
2019-02-24	11:38:00	Ewallet 735.6
2019-01-10	17:15:00	Credit card 72.52
2019-02-20	13:27:00	Credit card 164.52
2019-02-06	18:07:00	Ewallet 57.92
2019-03-09	17:03:00	Cash 102.04
2019-02-12	10:25:00	Ewallet 234.75
2019-02-07	16:48:00	Ewallet 431.9
2019-03-29	19:21:00	Cash 713.8
2019-01-15	16:19:00	Cash 562.32

6. Splitting date column

Split column - Date
×

Select the items that will be used to create new columns.

Year

Month

Day

2019

1

5

☒ Include the day of the week

Preview

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

Cancel

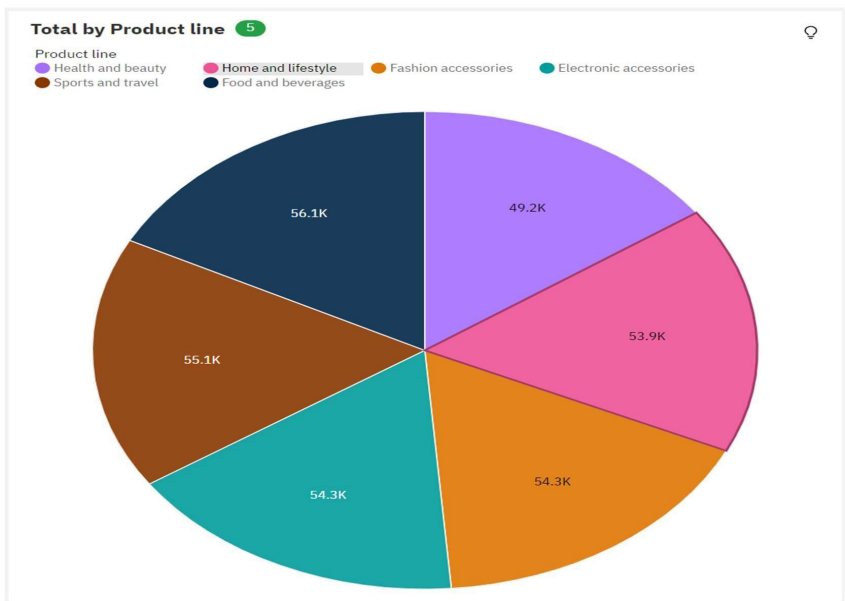
Next

Exploration and Visualization:

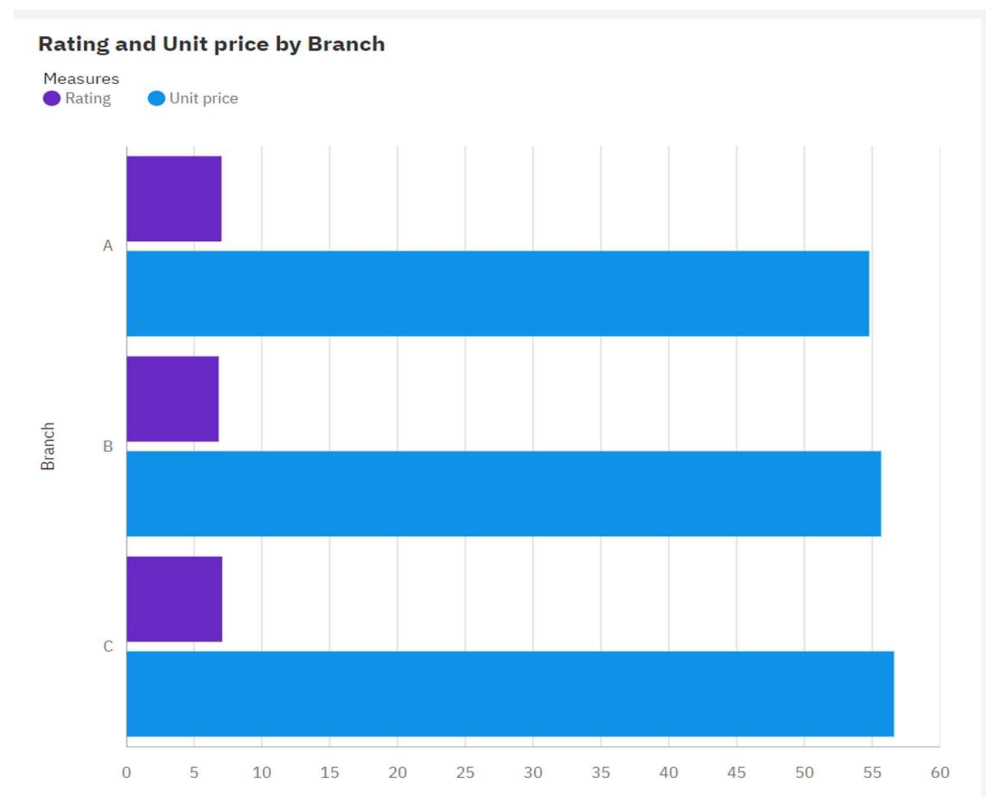
HIERARCHY BUBBLE CHART:



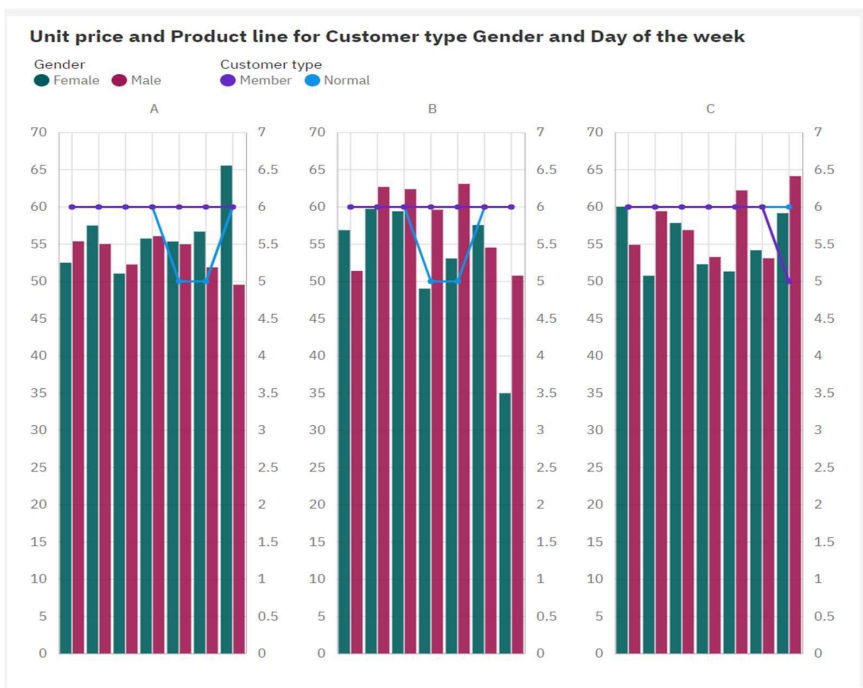
PIE CHART:



BAR CHART:



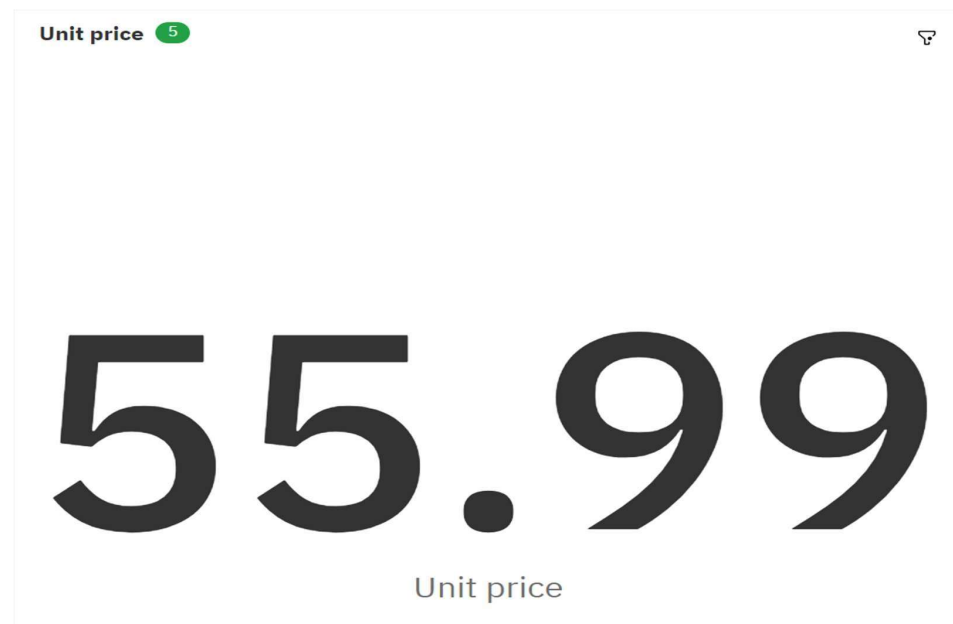
LINE AND COLUMN GRAPH:



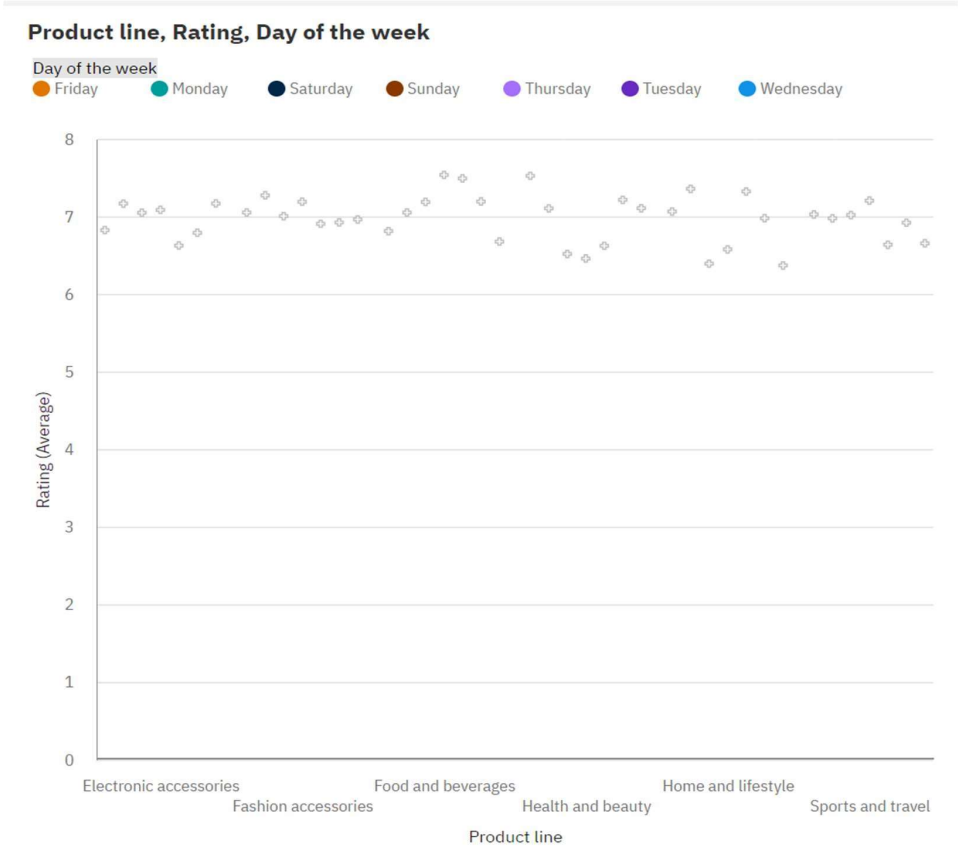
DECISION TREE:



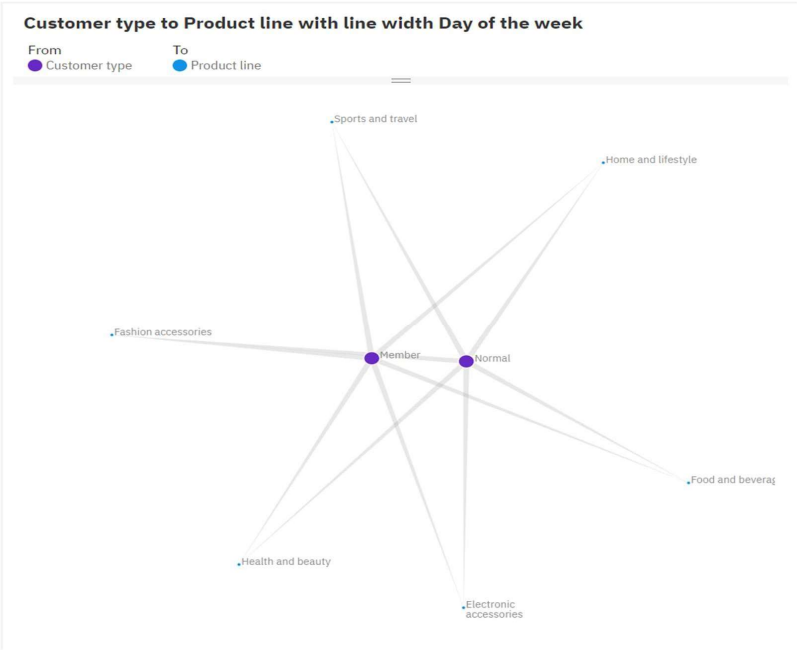
SUMMARY CHART:



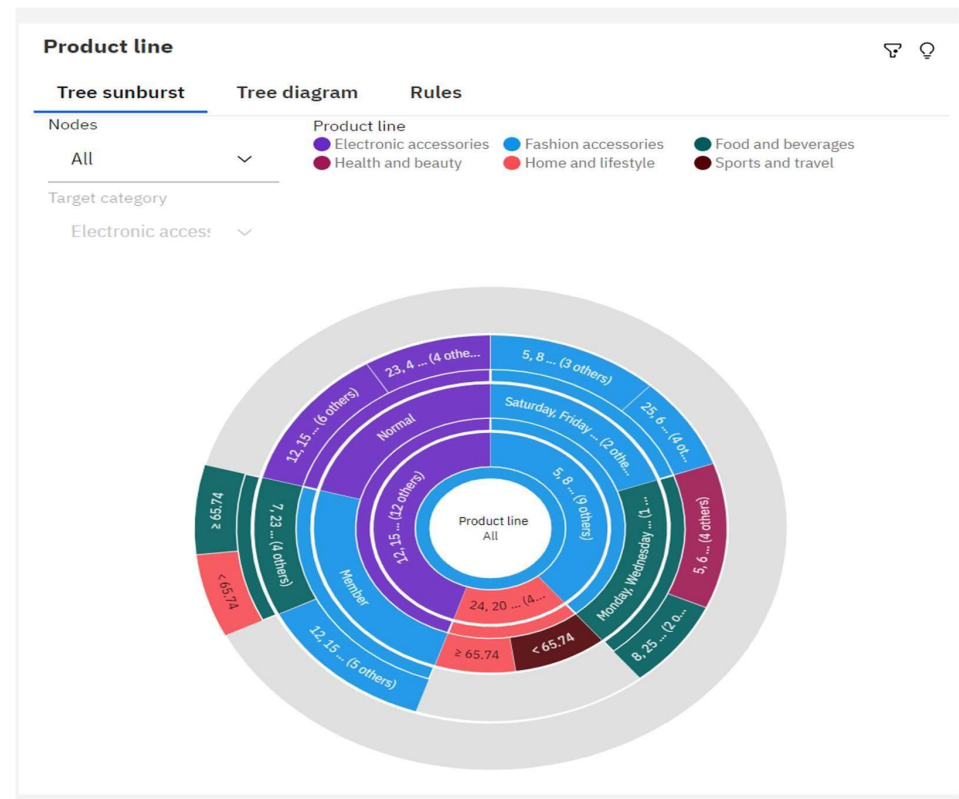
BOXPLOT:



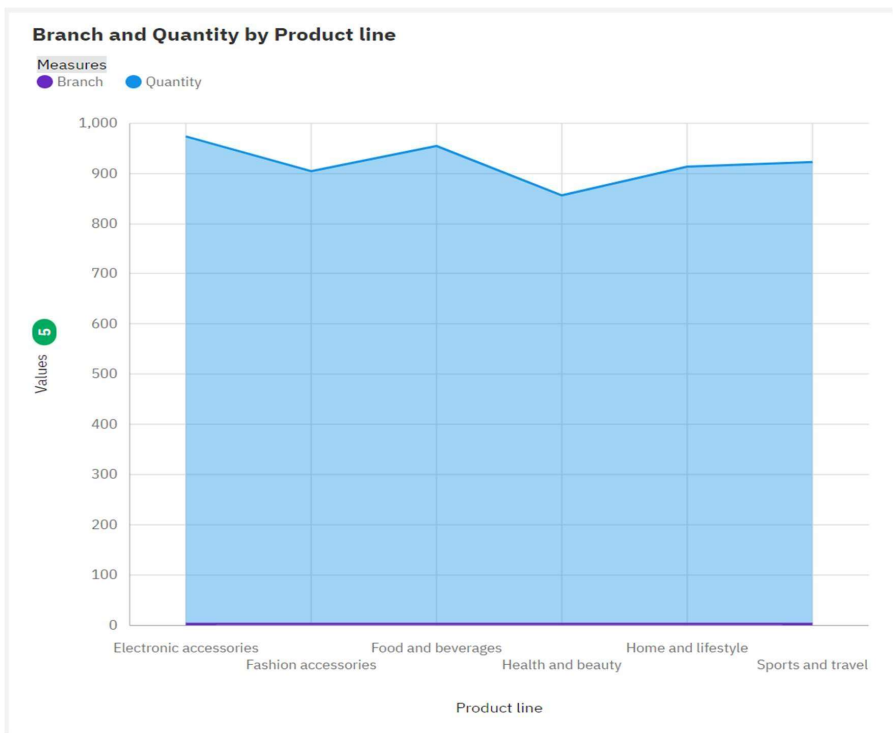
NETWORK CHART:



SUNBURST CHART:



AREA CHART:



MAP CHART:

