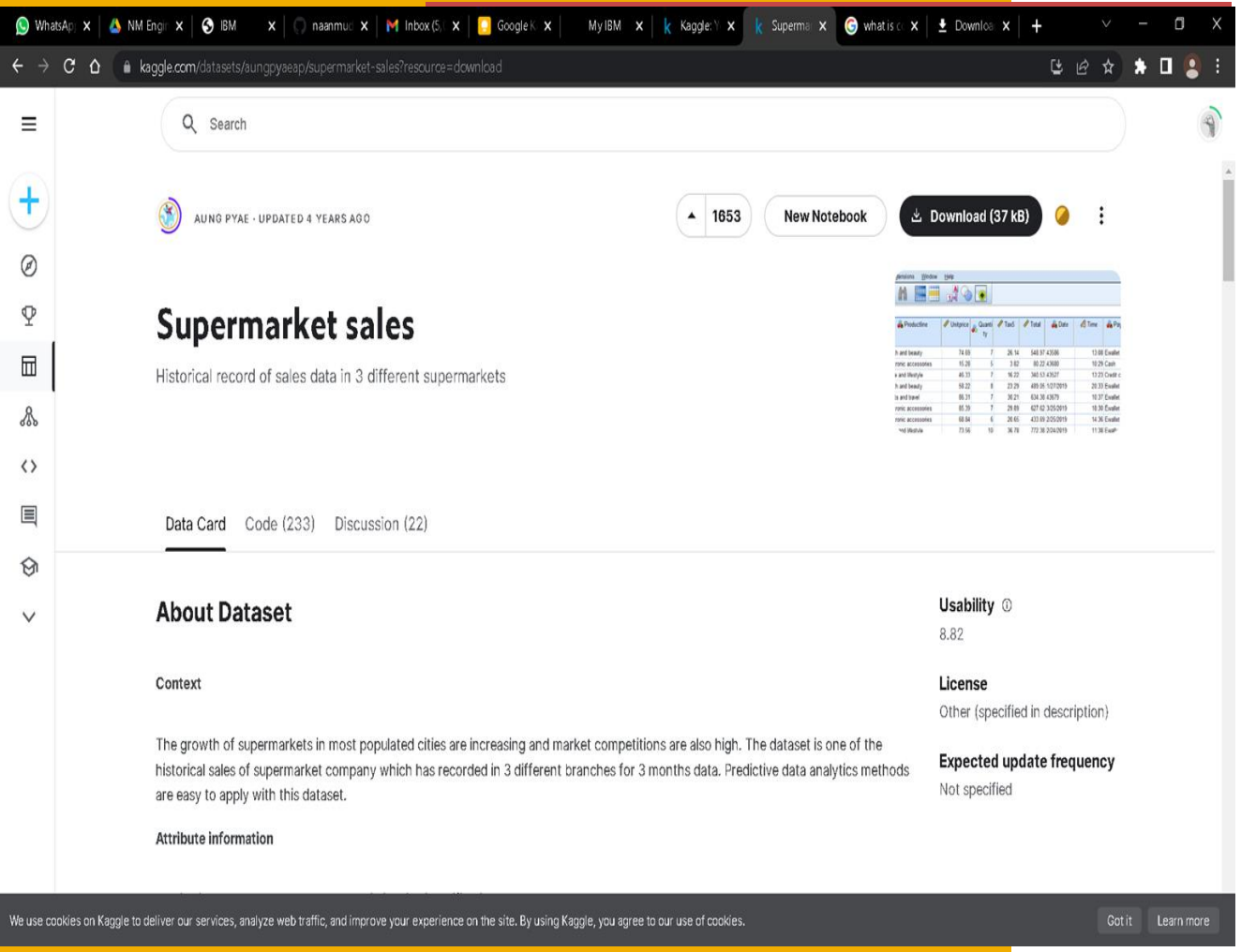
DA ASSIGNMENT – 1

YAMUNA P

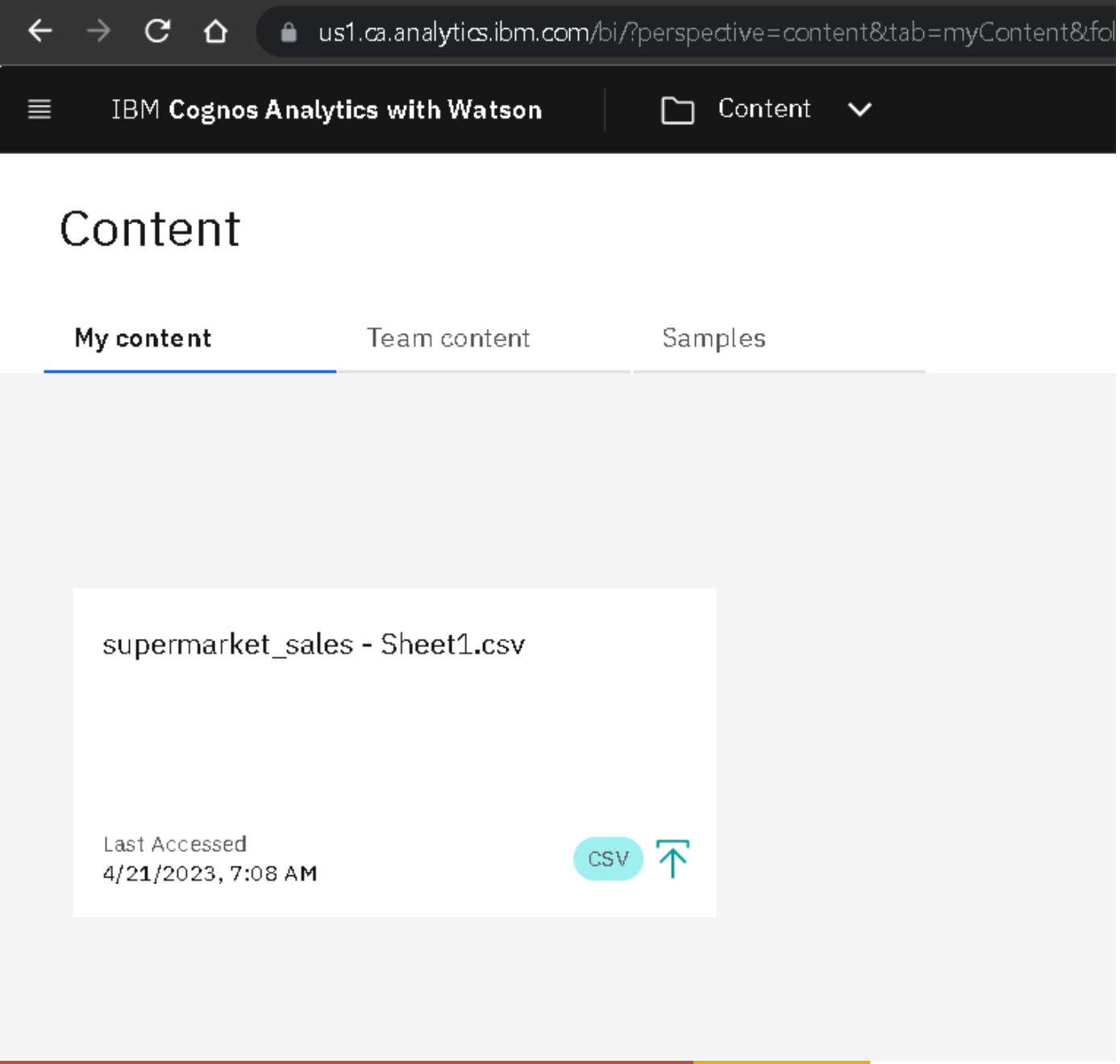
310820104117

Jeppiaar Engineering College



About Dataset

- The growth of supermarkets in most populated cities is increasing and market competitions are also high.
- The dataset is one of the historical sales of supermarket company which has recorded in 3 different branches for 3 months data.
- Here is the image of dataset window in kaggle.com website.



Uploading data set to Cognos Data Analytics

- Here are snapshots of how I upload .csv files to my Cognos data analytics
- Downloaded .csv file from kaggle is uploaded using the upload feature on the cognos website.

Below are the Snapshots

Delete the unnecessary columns

- Removal of unnecessary coloumns are done here and they have been saved as another data module .
- You can see that few columns are not displayed as they have been removed .

Data module

Search

- final_data_module
  - Navigation paths
  - final_data_module_csv
  - supermarke...heet1.csv

Grid | Relationships | Custom tables

Invoice ID	Branch	City	Customer type	Gender	Product line	Unit price
750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69
226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	15.28
631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33
123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22
373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31
699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	85.39
355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84
315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56
665-32-9167	A	Yangon	Member	Female	Health and beauty	36.26
692-92-5582	B	Mandalay	Member	Female	Food and beverages	54.84
351-62-0822	B	Mandalay	Member	Female	Fashion accessories	14.48
529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.51
365-64-0515	A	Yangon	Normal	Female	Electronic accessories	46.95
252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19

Data module

Search

- final_data_module
  - Navigation paths
  - final_data_module_csv
  - supermarke...heet1.csv

Grid | Relationships | Custom tables

Quantity	Tax 5%	Total	Date	Time	Payment	gross incon
7	26.1415	548.9715	2019-01-05	13:08:00	Ewallet	26.1415
5	3.82	80.22	2019-03-08	10:29:00	Cash	3.82
7	16.2155	340.5255	2019-03-03	13:23:00	Credit card	16.2155
8	23.288	489.048	2019-01-27	20:33:00	Ewallet	23.288
7	30.2085	634.3785	2019-02-08	10:37:00	Ewallet	30.2085
7	29.8865	627.6165	2019-03-25	18:30:00	Ewallet	29.8865
6	20.652	433.692	2019-02-25	14:36:00	Ewallet	20.652
10	36.78	772.38	2019-02-24	11:38:00	Ewallet	36.78
2	3.626	76.146	2019-01-10	17:15:00	Credit card	3.626
3	8.226	172.746	2019-02-20	13:27:00	Credit card	8.226
4	2.896	60.816	2019-02-06	18:07:00	Ewallet	2.896
4	5.102	107.142	2019-03-09	17:03:00	Cash	5.102
5	11.7375	246.4875	2019-02-12	10:25:00	Ewallet	11.7375
10	21.595	453.495	2019-02-07	16:48:00	Ewallet	21.595

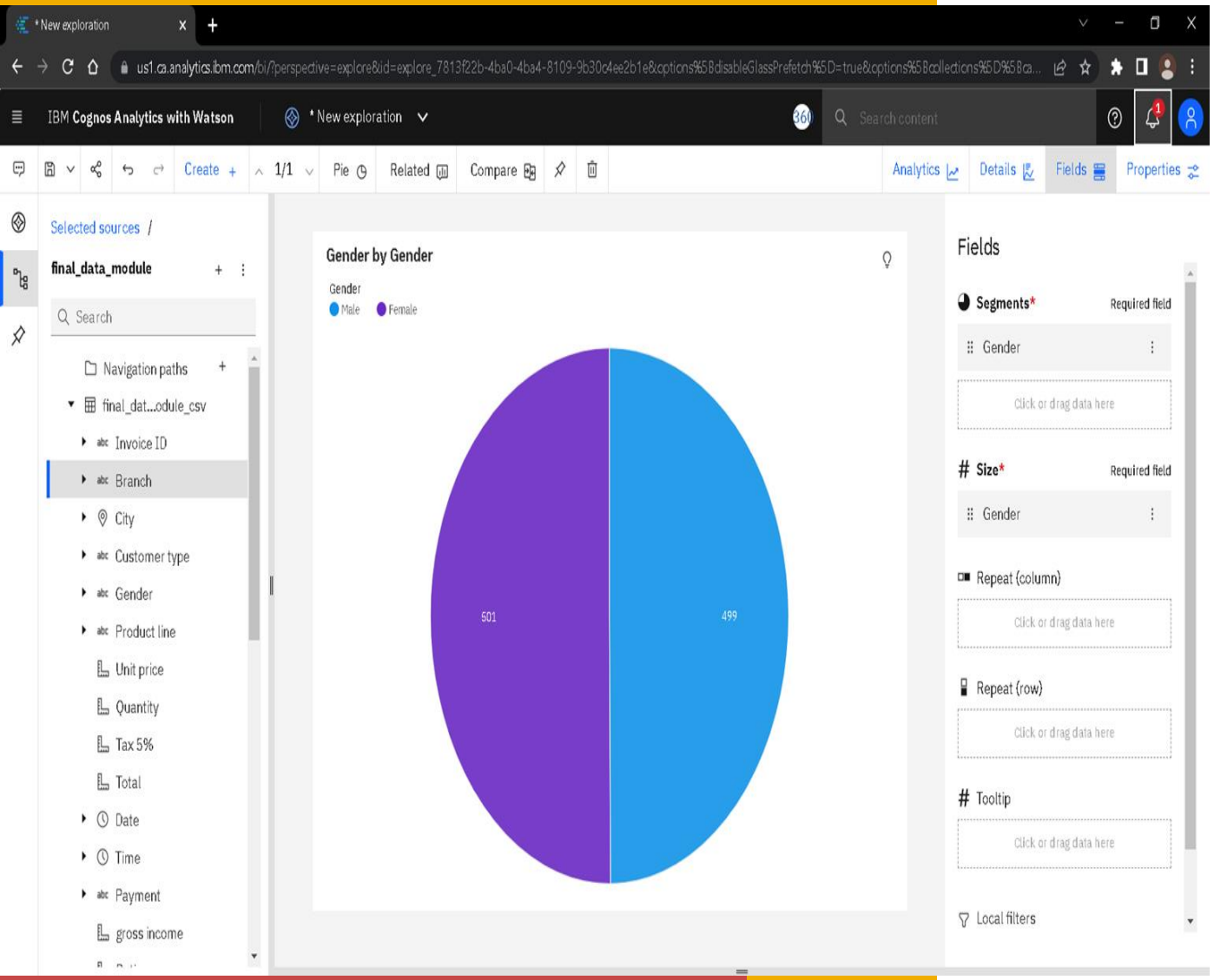
Data module

Search

- final_data_module
  - Navigation paths
  - final_data_module_csv
  - supermarke...heet1.csv

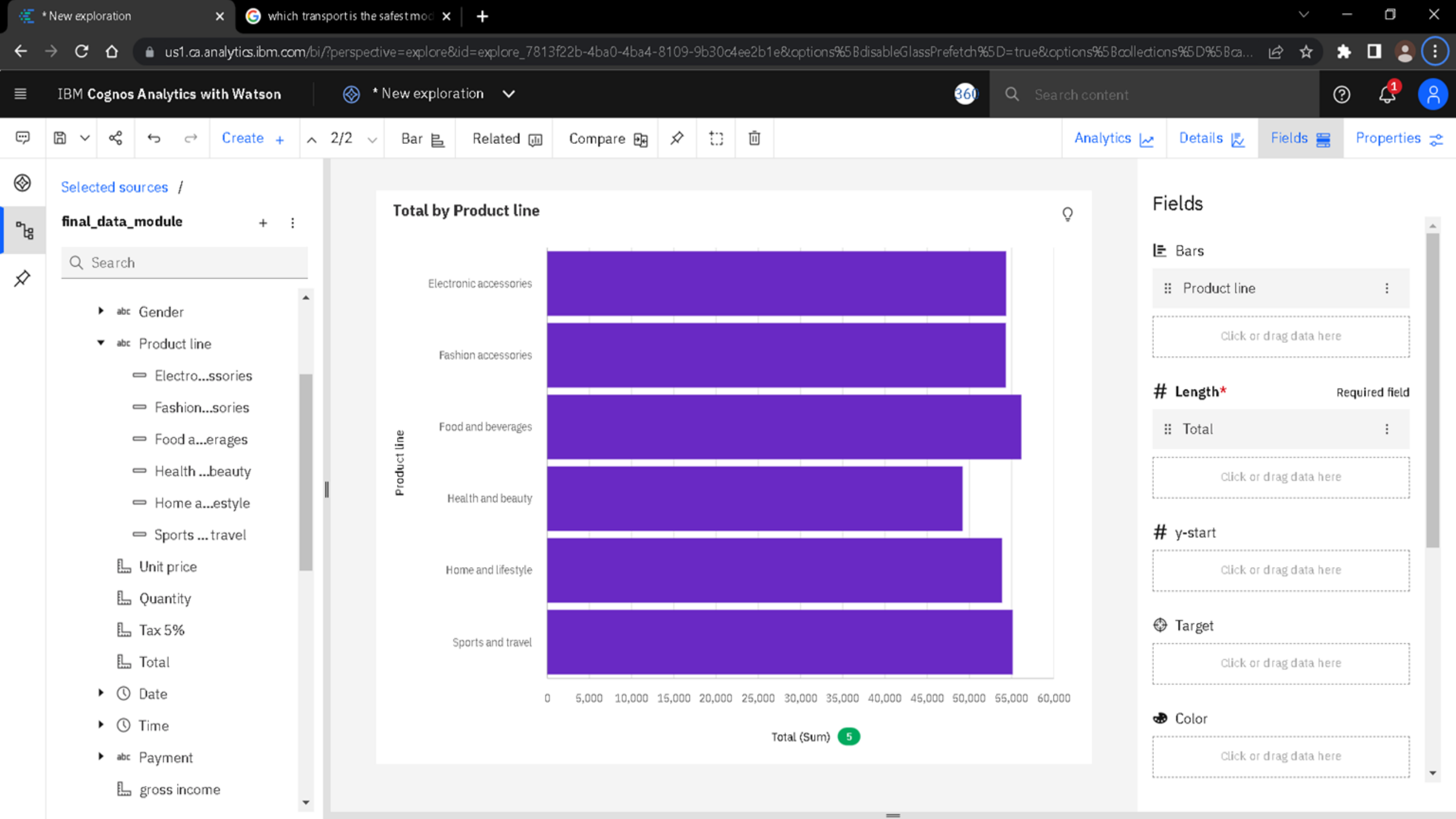
Grid | Relationships | Custom tables

Total	Date	Time	Payment	gross income	Rating
548.9715	2019-01-05	13:08:00	Ewallet	26.1415	9.1
80.22	2019-03-08	10:29:00	Cash	3.82	9.6
340.5255	2019-03-03	13:23:00	Credit card	16.2155	7.4
489.048	2019-01-27	20:33:00	Ewallet	23.288	8.4
634.3785	2019-02-08	10:37:00	Ewallet	30.2085	5.3
627.6165	2019-03-25	18:30:00	Ewallet	29.8865	4.1
433.692	2019-02-25	14:36:00	Ewallet	20.652	5.8
772.38	2019-02-24	11:38:00	Ewallet	36.78	8
76.146	2019-01-10	17:15:00	Credit card	3.626	7.2
172.746	2019-02-20	13:27:00	Credit card	8.226	5.9
60.816	2019-02-06	18:07:00	Ewallet	2.896	4.5
107.142	2019-03-09	17:03:00	Cash	5.102	6.8
246.4875	2019-02-12	10:25:00	Ewallet	11.7375	7.1
453.495	2019-02-07	16:48:00	Ewallet	21.595	8.2



Analysis of Gender by Gender in a Pie Chart Representation

- The diagram is a Pie Chart representation of Genders of two kinds.
- Hence it has two colours.


* New exploration
which transport is the safest mod
us1.ca.analytics.ibm.com/bi/?perspective=explore&id=explore_7813f22b-4ba0-4ba4-8109-9b30c4ee2b1e&options%5BdisableGlassPrefetch%5D=true&options%5Bcollections%5D%5Bca...
IBM Cognos Analytics with Watson
* New exploration
Search content
Create
2/2
Bar
Related
Compare
Analytics
Details
Fields
Properties
Selected sources /
final_data_module
Search
Gender
Product line
Electro...ssories
Fashion...sories
Food a...erages
Health ...beauty
Home a...estyle
Sports ... travel
Unit price
Quantity
Tax 5%
Total
Date
Time
Payment
gross income
Total by Product line
Electronic accessories
Fashion accessories
Food and beverages
Health and beauty
Home and lifestyle
Sports and travel
Product line
0
5,000
10,000
15,000
20,000
25,000
30,000
35,000
40,000
45,000
50,000
55,000
60,000
Total (Sum)
5
Fields
Bars
Product line
Click or drag data here
Length*
Required field
Total
Click or drag data here
y-start
Click or drag data here
Target
Click or drag data here
Color
Click or drag data here

Selected sources /

final_data_module

Search

- Branch
- City
- Customer type
- Gender
- Product line
  - Electro...ssories
  - Fashion...sories
  - Food a...erages
  - Health ...beauty
  - Home a...estyle
  - Sports ... travel
- Unit price
- Quantity
- Tax 5%
- Total
- Date
- Time

Unit price for Product line hierarchy 3

Unit price (Average) 53.55 57.15

Product line: Electronic accessories, Fashion accessories, Food and beverages, Health and beauty, Home and lifestyle, Sports and travel

Fields

Area hierarchy* Required field

Product line

Click or drag data here

Size* Required field

Unit price

Heat

Click or drag data here

Repeat (column)

Click or drag data here

Repeat (row)

Click or drag data here

Tooltip

Selected sources /

final_data_module

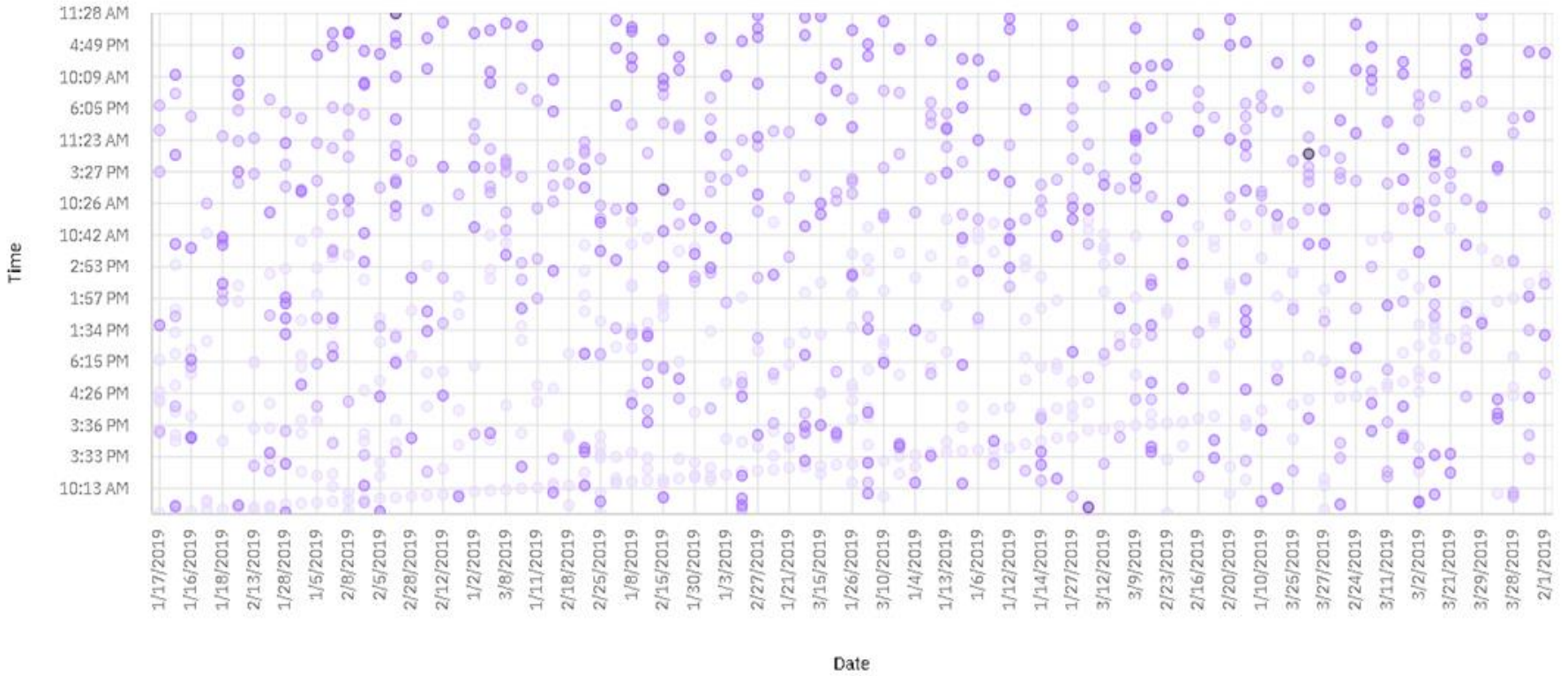
Search

- Electro...sories
- Fashion...sories
- Food a...erages
- Health ...beauty
- Home a...estyle
- Sports ... travel
- Unit price
- Quantity
- Tax 5%
- Total
- Date
- Time
- Payment
- gross income
- Rating
- supermar...eet1.csv

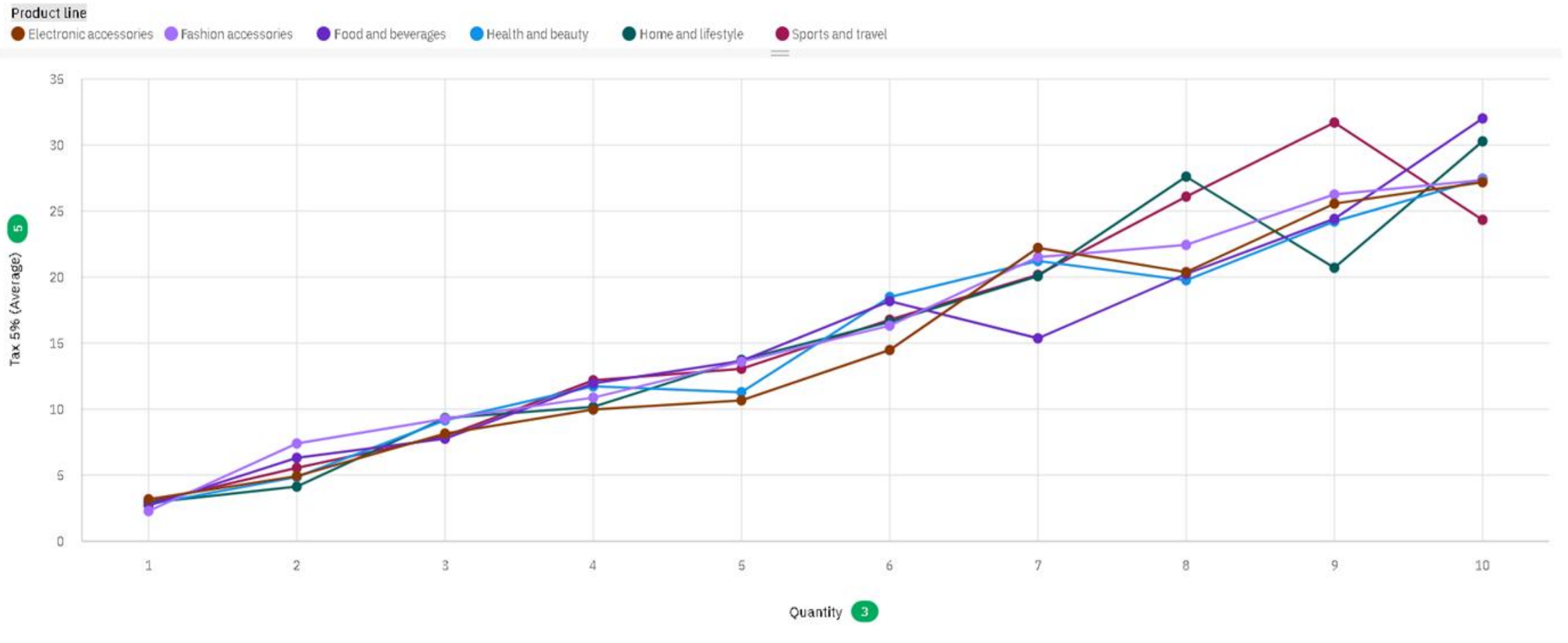
Date by Time colored by Quantity 3

Quantity (Sum)

1 — 20



Tax 5% by Quantity colored by Product line



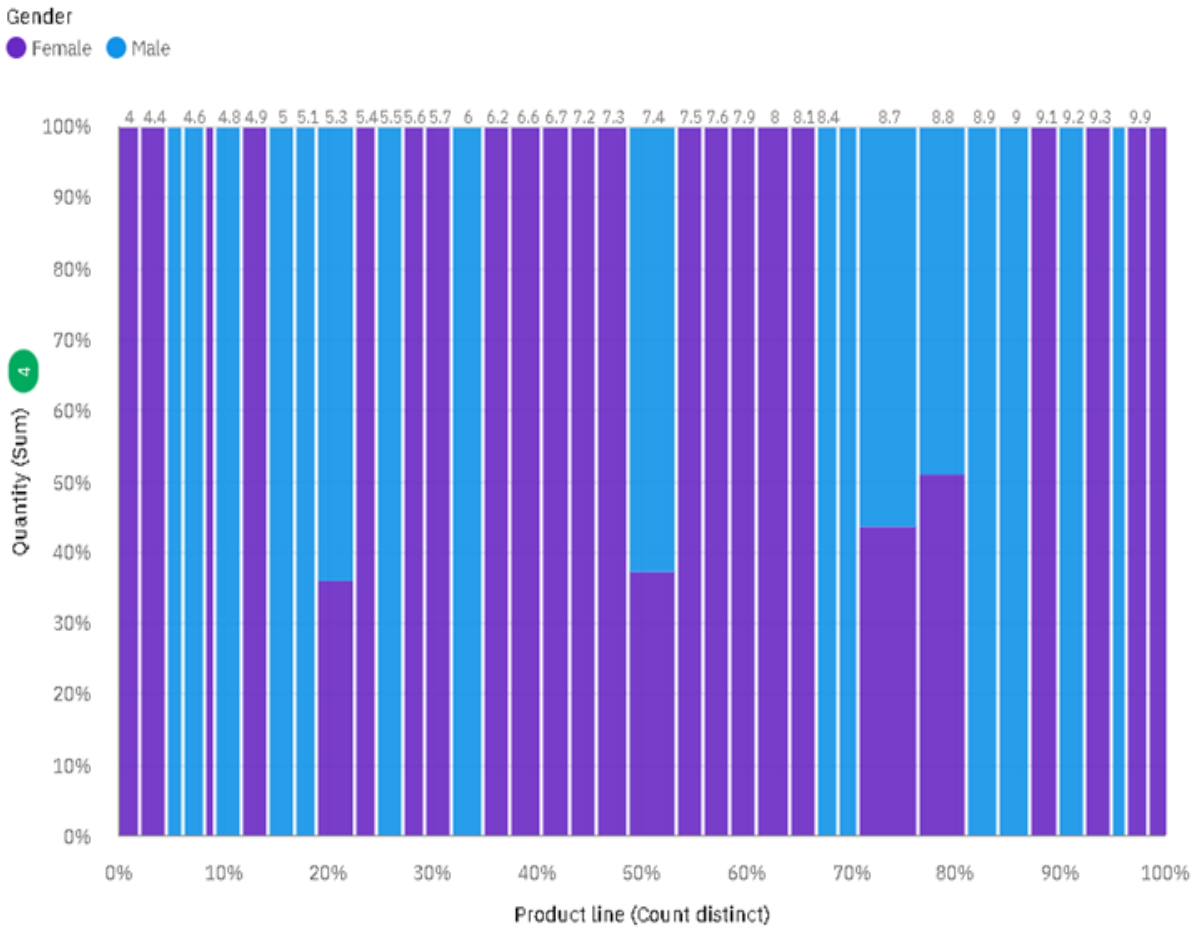
Selected sources /

final_data_module

Search

- Customer type
- Gender
- Product line
  - Electro...ssories
  - Fashion...ssories
  - Food an...erages
  - Health ...beauty
  - Home a...estyle
  - Sports a... travel
- Unit price
- Quantity
- Tax 5%
- Total
- Date
- Time
- Payment

Quantity and Product line for Rating colored by Gender



Fields

Color

Gender

Click or drag data here

Repeat (column)

Click or drag data here

Repeat (row)

Click or drag data here

Tooltip

Click or drag data here

Local filters

Tax 5%

Between 16.913 and 22.466

Conclusion

- Data Analysis for Supermarket is done successfully by uploading the dataset to Cognos Analytics, deleting the unnecessary columns, creating a data module, exploring and visualization of the dataset.