NAAN MUDHALVAN – PROFESSIONAL READINESS FOR INNOVATION, EMPLOYMENT AND ENTERPRENEURSHIP

DATA ANALYTICS ASSIGNMENT – 1

ASSIGNMENT DATE	28-04-23
STUDENT NAME	DHANUSH RAJ.R
STUDENT ROLL NO	820420205016

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. Predictive data analytics methods are easy to apply to this dataset.

Attribute information:

Invoice id: Computer-generated sales slip invoice identification number

Branch: Branch of supercenter (3 branches are available identified by A, B and C).

City: Location of supercenters

Customer type: Type of customers, recorded by Members for customers using member

cards and Normal for those without member cards.

Gender: Gender type of customer

Product line: General item categorization groups - Electronic accessories, Fashion accessories, Food and beverages, Health and beauty, Home and lifestyle, Sports and

travel

Unit price: The price of each product in \$

Quantity: Number of products purchased by the customer

Tax: 5% tax fee for customers buying

Total: Total price including tax

Date: Date of purchase (Record available from January 2019 to March 2019)

Time: Purchase time (10 am to 9 pm)

Payment: Payment used by the customer for the purchase (3 methods are available –

Cash, Credit card and E-wallet) COGS: Cost of goods sold

Gross margin percentage: Gross margin percentage

Gross income: Gross income

Rating: Customer stratification rating on their overall shopping experience (On a scale of

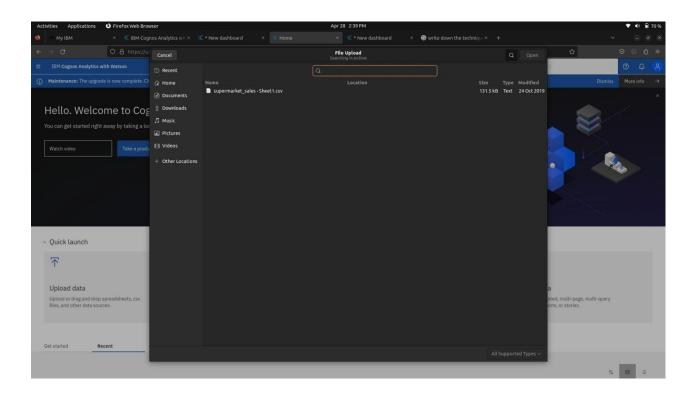
1 to 10)

Dataset Link: Dataset

There are three steps to be followed in this assignment

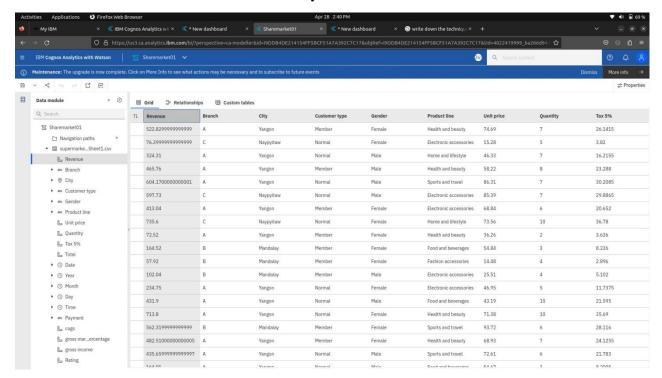
- · Upload the dataset into IBM Cognizant.
- · Deleting unnecessary data and creating the data module.
- · Explore and visualize the dataset.

Step 1: The dataset has been uploaded into IBM cognizant successfully after downloading the given dataset.

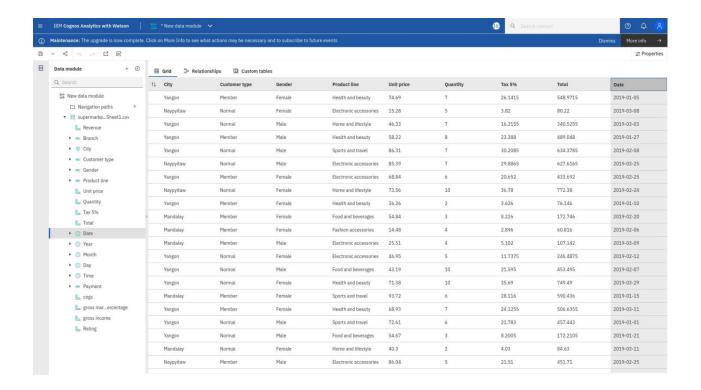


Step 2: Cleaning the dataset using "Prepare Data". I splitted some of the columns, so it can be used for better visualization of dataset. I also added some columns using existing columns and manipulated it using calculations.

Here we can see the newly added column called Revenue.



Here the date column is splitted into year, month, day and day of the week.

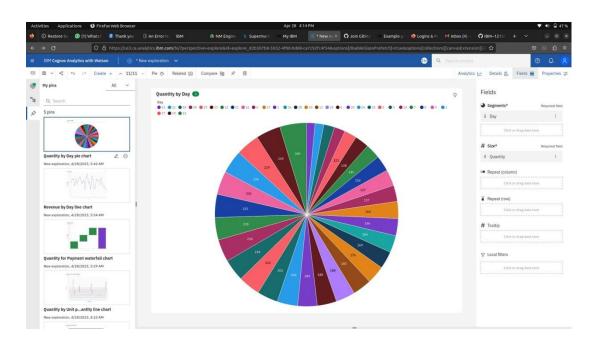


Like this we cleaned the dataset and removed unnecessary information in the dataset.

Step 3: Here we are exploring and visualizing the dataset.

I have done 5 visualizations using Explore data option in IBM Cognizant.

1st visualization: Quantity by Day



Active Applications of Preference by Days.

Bill Cognor Acolytics with victims of Preference by Days.

Bill Cognor Acolytics with victims of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

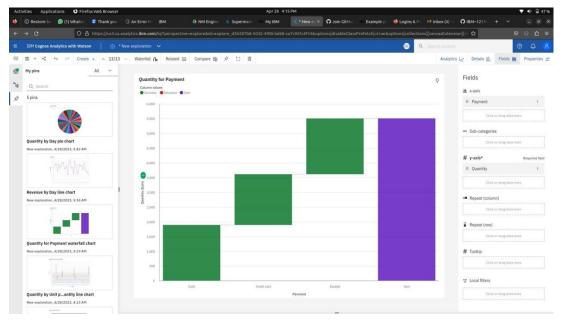
Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference by Days.

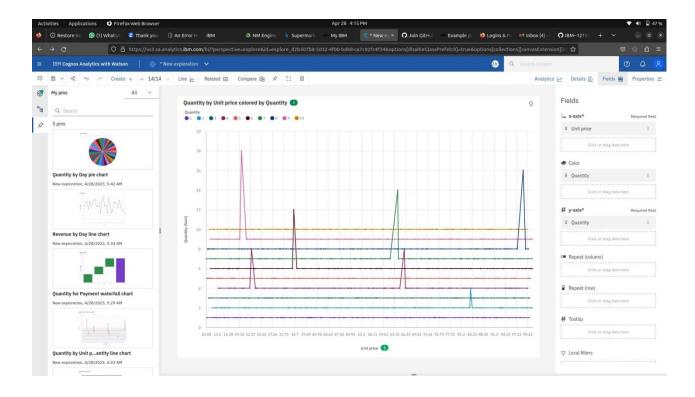
Bill Cognor Acolytics and National Companies of Preference by Days.

Bill Cognor Acolytics and National Companies of Preference and National Companies of

3rd visualization: Quantity for payment.



4th visualization: Quantity by Unit Price colored By Quantity.



5th visualization: Revenue by Month colored by Month.

