

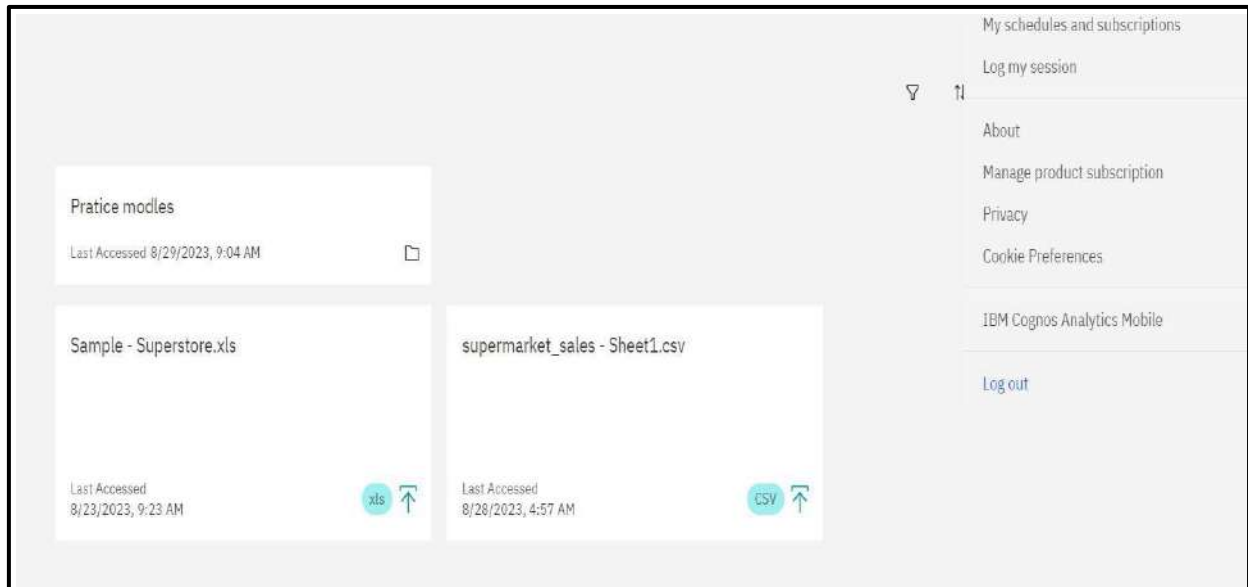
**NAME:SK.KARIMULLA**

**REGD.NO:21BCE9580**

# IBM Cognos Analytics

## ASSIGNMENT-1

**Upload the dataset to Cognos Analytics:**



### 1. Delete the unnecessary columns:

In the above data set Invoice Id and Gross margin percentage columns are removed as they are not useful for analytics.

The screenshot shows the IBM Cognos Analytics data module interface. The 'Data module' is named 'Assignment-1Mod'. The 'Grid' view is selected, showing a table with the following columns: Branch, City, Customer type, Gender, and Product line. The table contains 10 rows of data.

Branch	City	Customer type	Gender	Product line
A	Yangon	Member	Female	Health and beauty
C	Naypyitaw	Normal	Female	Electronic accessories
A	Yangon	Normal	Male	Home and lifestyle
A	Yangon	Member	Male	Health and beauty
A	Yangon	Normal	Male	Sports and travel
C	Naypyitaw	Normal	Male	Electronic accessories
A	Yangon	Member	Female	Electronic accessories
C	Naypyitaw	Normal	Female	Home and lifestyle
A	Yangon	Member	Female	Health and beauty
B	Mandalay	Member	Female	Food and beverage

Time column is split into Hour column and Date column is split into Year, Month, Date, Day of the week.

IBM Cognos Analytics | Assignment-1Mod

Grid Relationships Custom tables

Search

Q...  
T...  
T...  
Date  
Year  
M...  
Day  
abc D...  
Time  
Hour  
abc P...t  
g...  
R...

Year	Month	Day	Day of the week	Time	Hour
2019	1	5	Saturday	13:08:00	13
2019	3	8	Friday	10:29:00	10
2019	3	3	Sunday	13:23:00	13
2019	1	27	Sunday	20:33:00	20
2019	2	8	Friday	10:37:00	10
2019	3	25	Monday	18:30:00	18
2019	2	25	Monday	14:36:00	14
2019	2	24	Sunday	11:38:00	11
2019	1	10	Thursday	17:15:00	17
2019	2	20	Wednesday	13:27:00	13

A Calculated column Time category is added on the basis of Hour column

IBM Cognos Analytics | Assignment-1Mod

Edit calculation

Name: Time category

Components

supermarke...heet1.csv

- Time category
- # Row Id
- Branch
- City
- Customer type
- Gender
- Product line
- Unit price
- Quantity
- Tax 5%

Expression

```

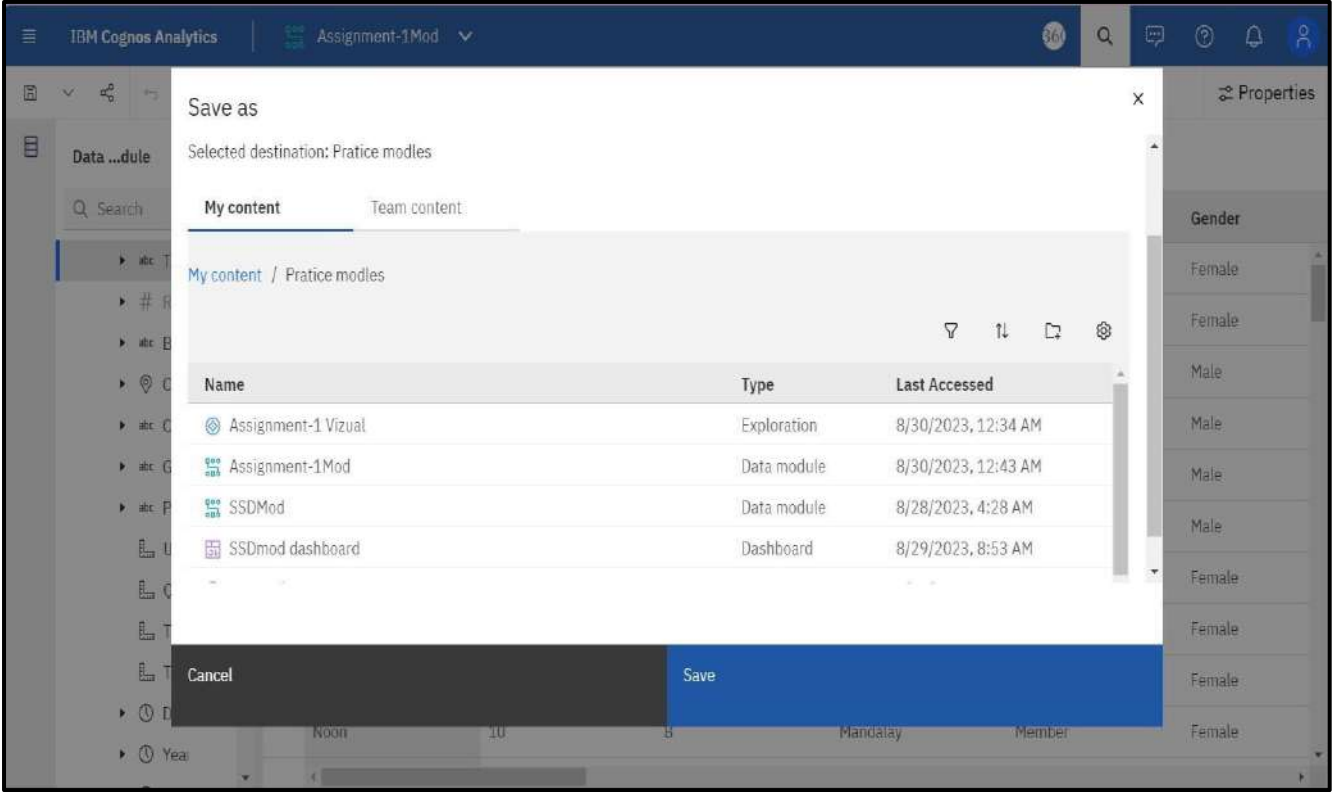
6 // END
7
8 CASE
9   WHEN [supermarket_sales_Sheet1_csv.Hour_] >= '8' AND [supermarket_sales_Sheet1_csv.Hour_] <
    '11' THEN 'Morning'
10  WHEN [supermarket_sales_Sheet1_csv.Hour_] >= '11' AND [supermarket_sales_Sheet1_csv.Hour_] <
    '18' THEN 'Noon'
11  WHEN [supermarket_sales_Sheet1_csv.Hour_] >= '18' AND [supermarket_sales_Sheet1_csv.Hour_] <
    '22' THEN 'Night'
12  ELSE NULL
13 END
14

```

Preview (Execution time: 1.302 seconds)

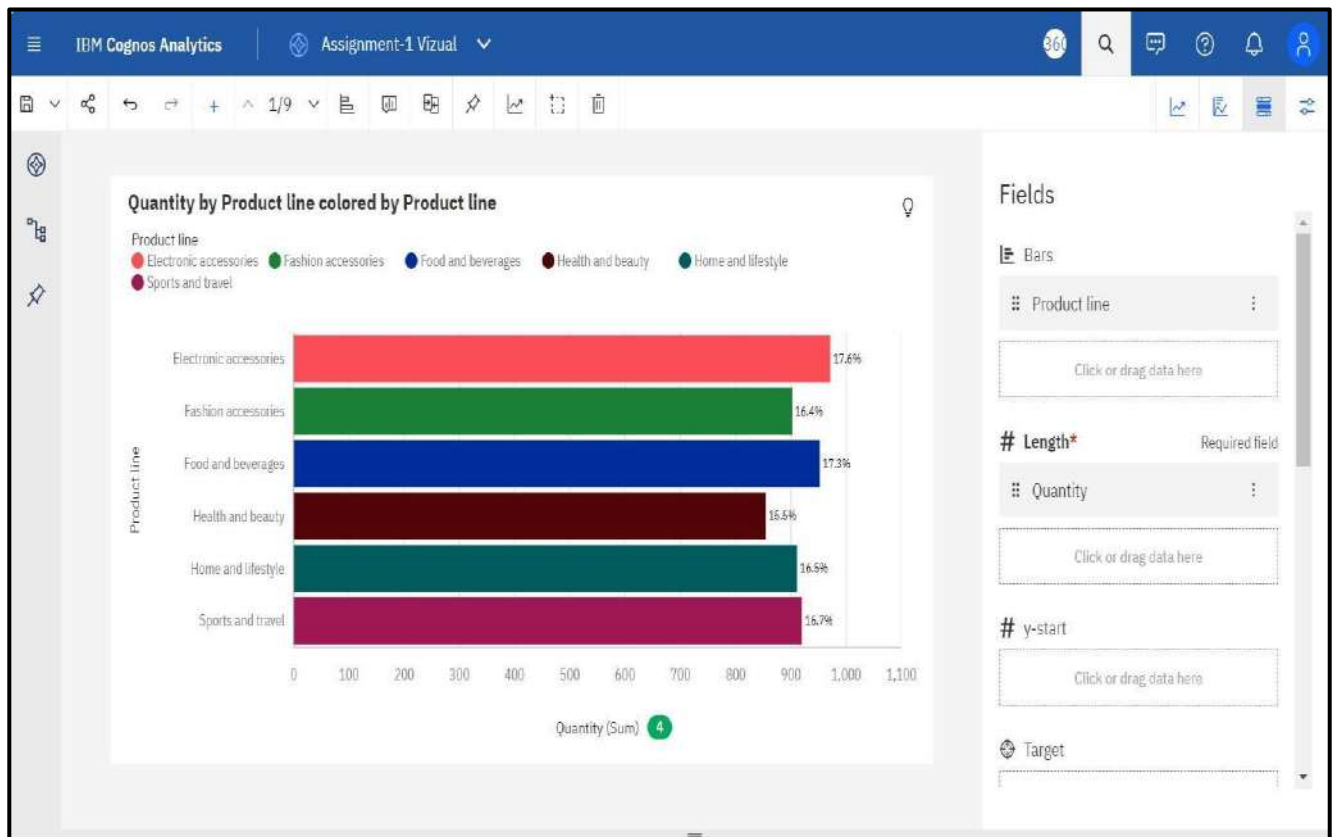
Time category	Hour
Noon	13
Morning	10

### 3. Create A Data Module

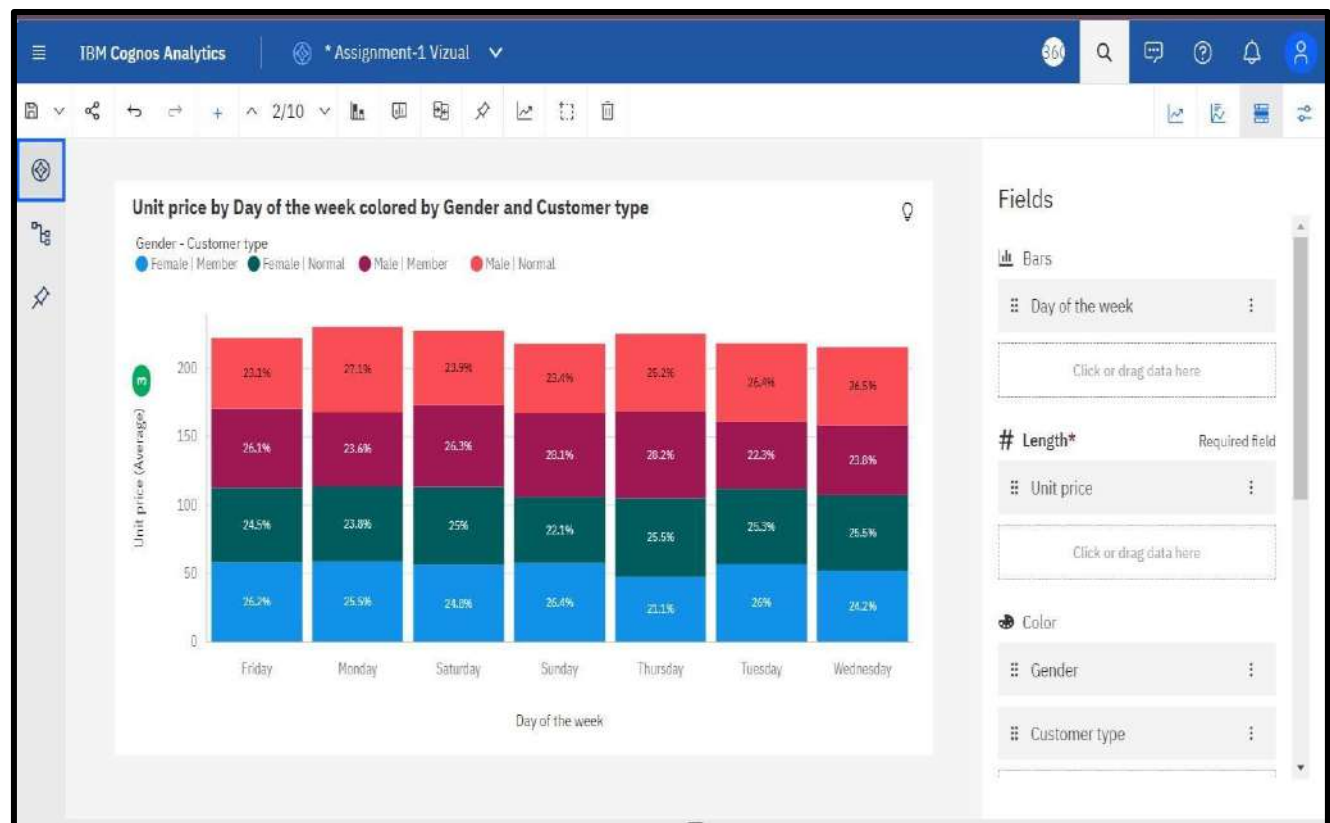


## 4. Explore And Visualize The Dataset

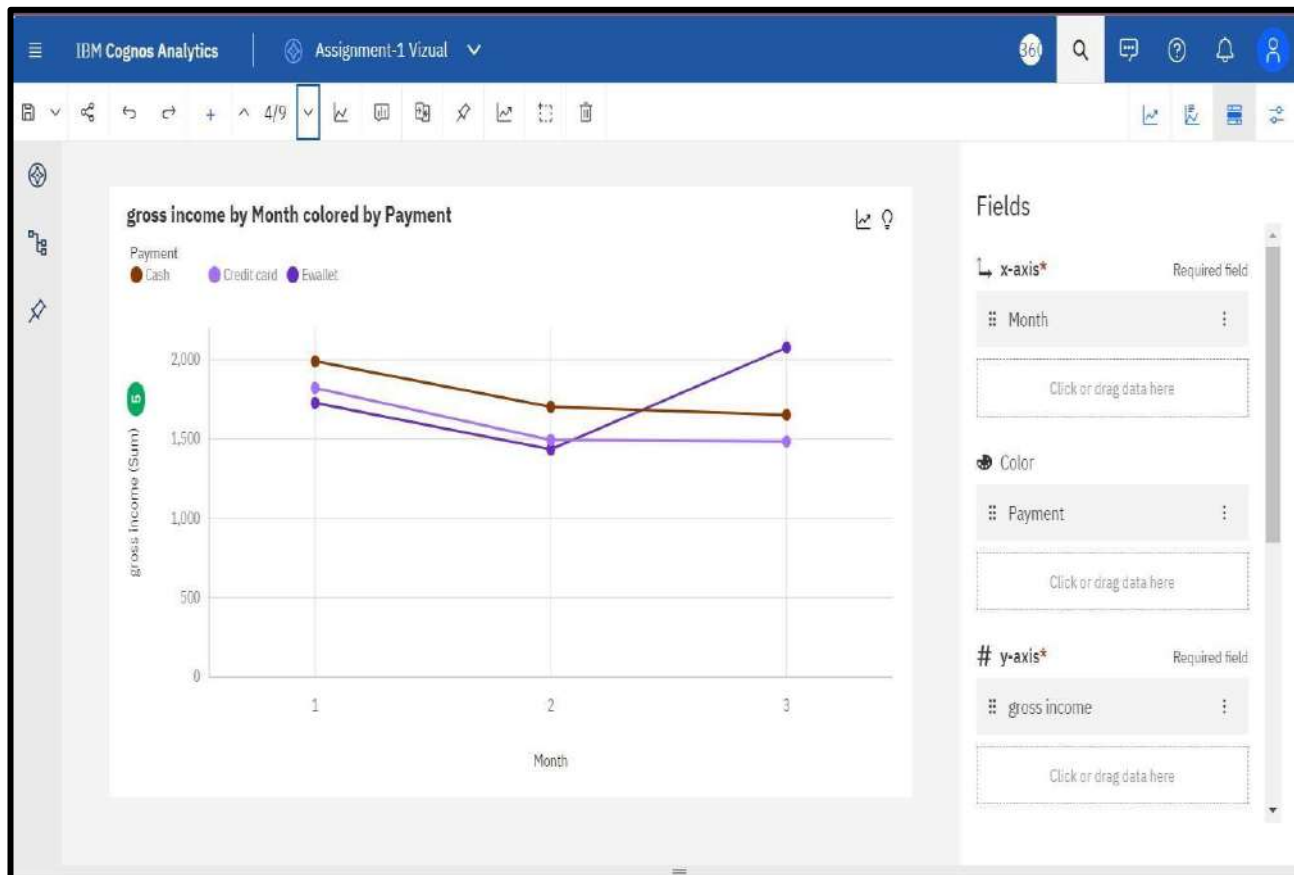
### 1. Bar Graph:



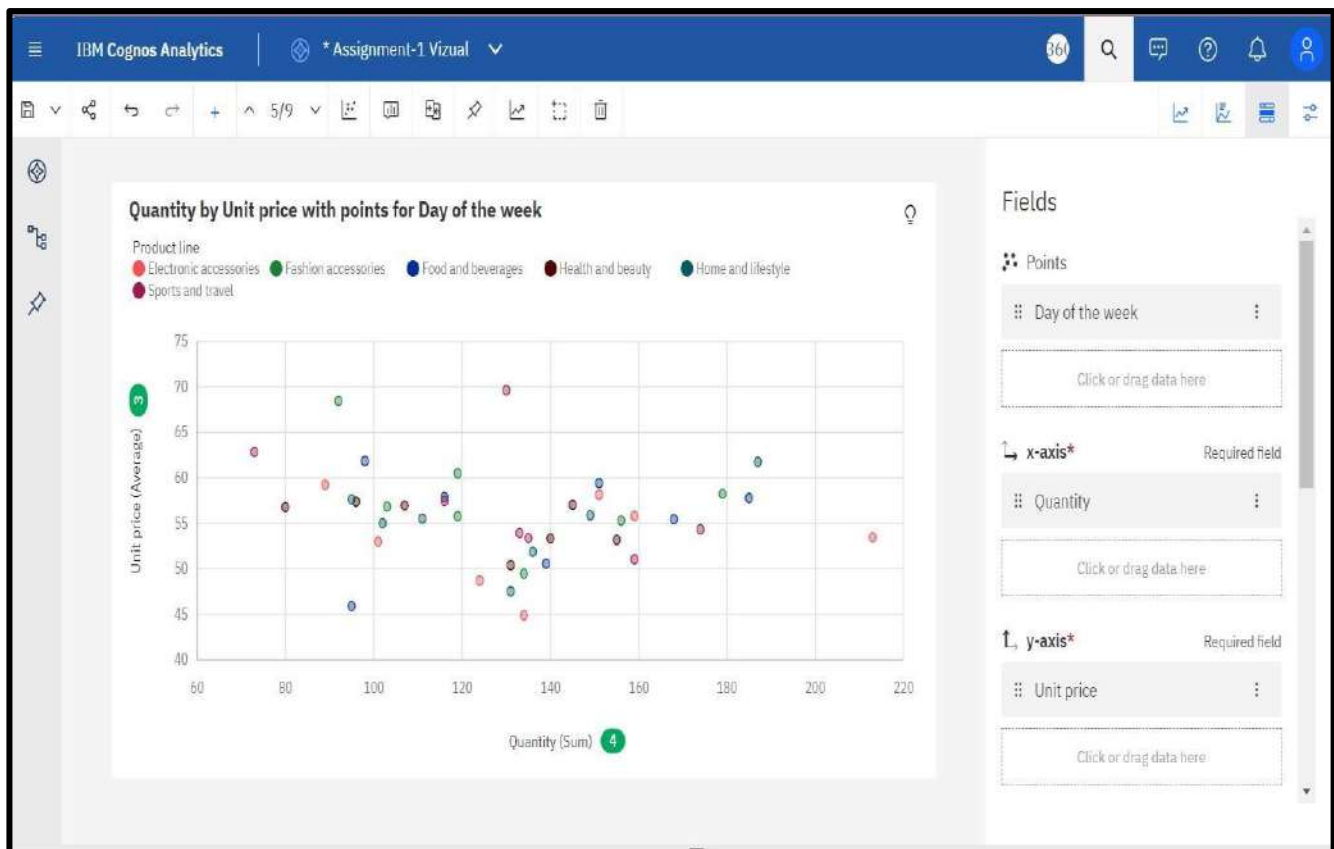
### 2. Stacked Column chart:



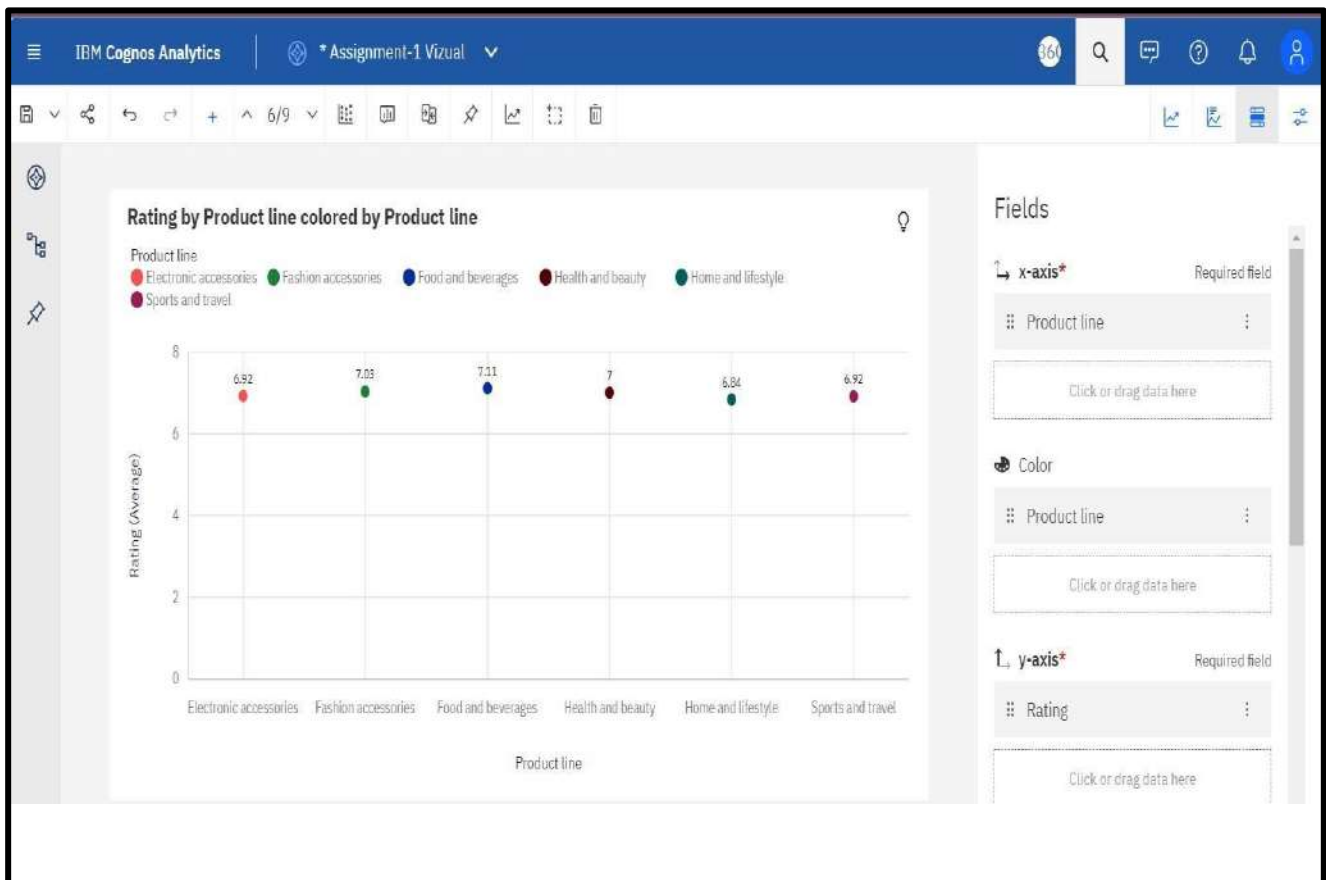
### 3. Line Chart:



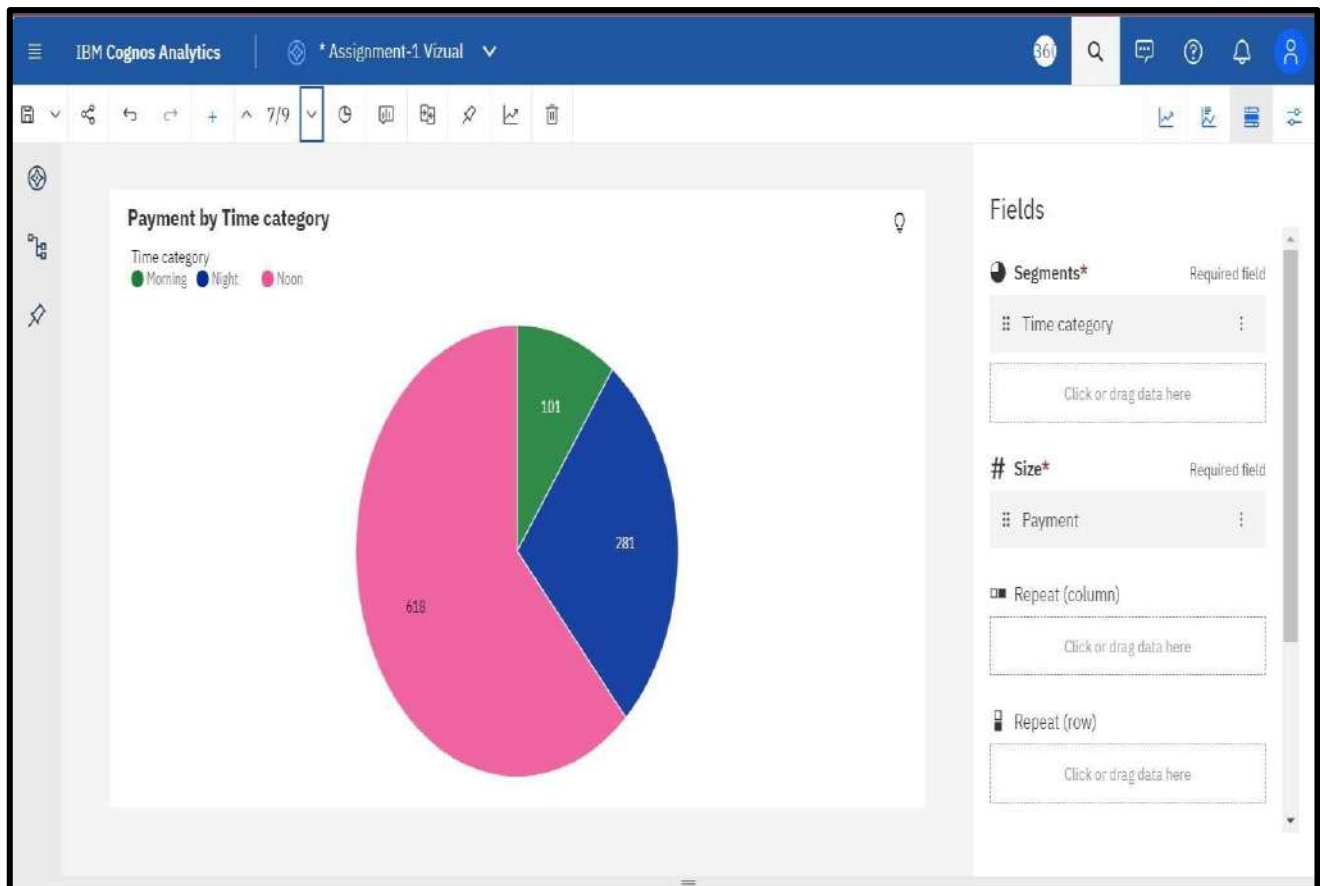
### 4. Scatter Plot



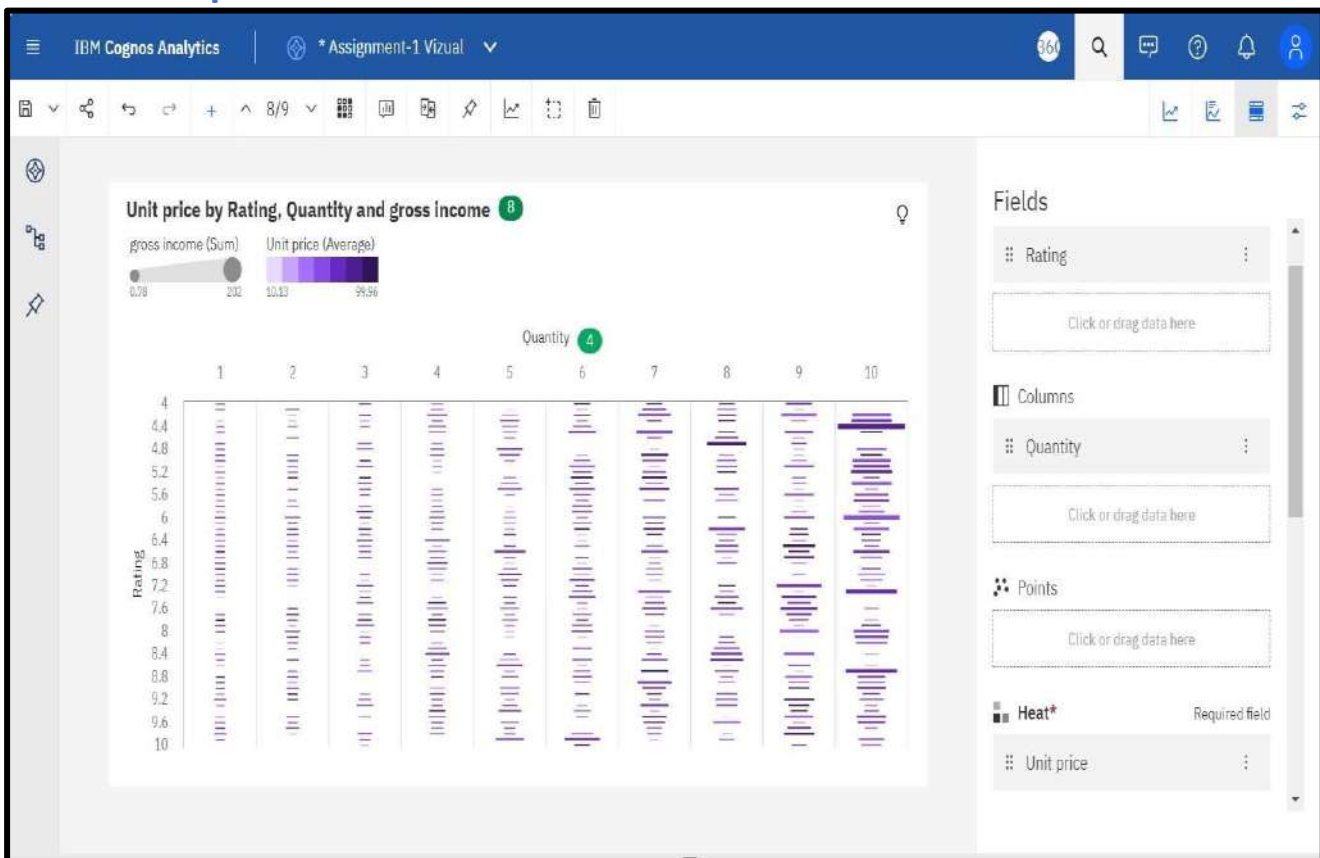
## 5. Point Graph:



## 6. Pi - Chart:

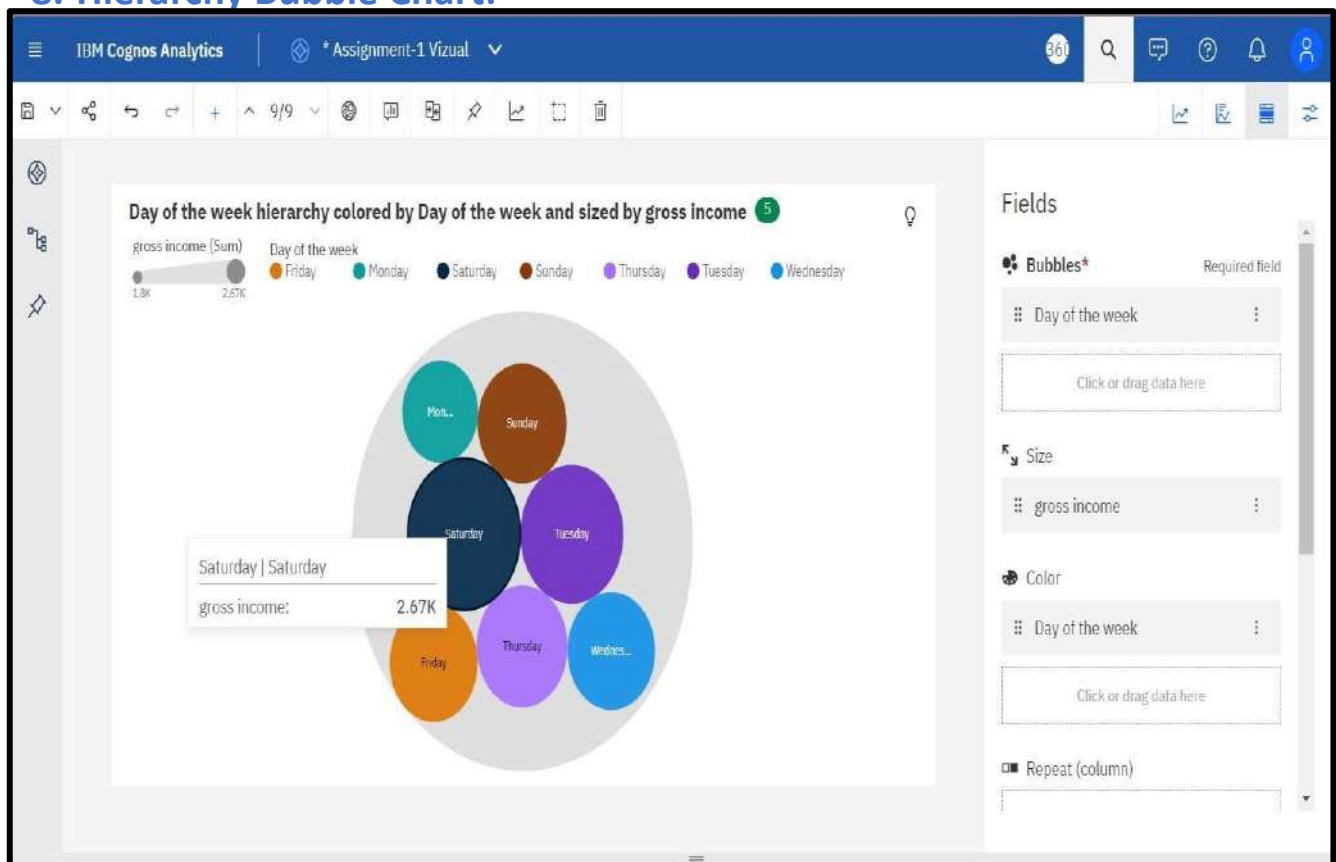


## 7. Heat Map:





## 8. Hierarchy Bubble Chart:



## 9. Line Column Chart:

