

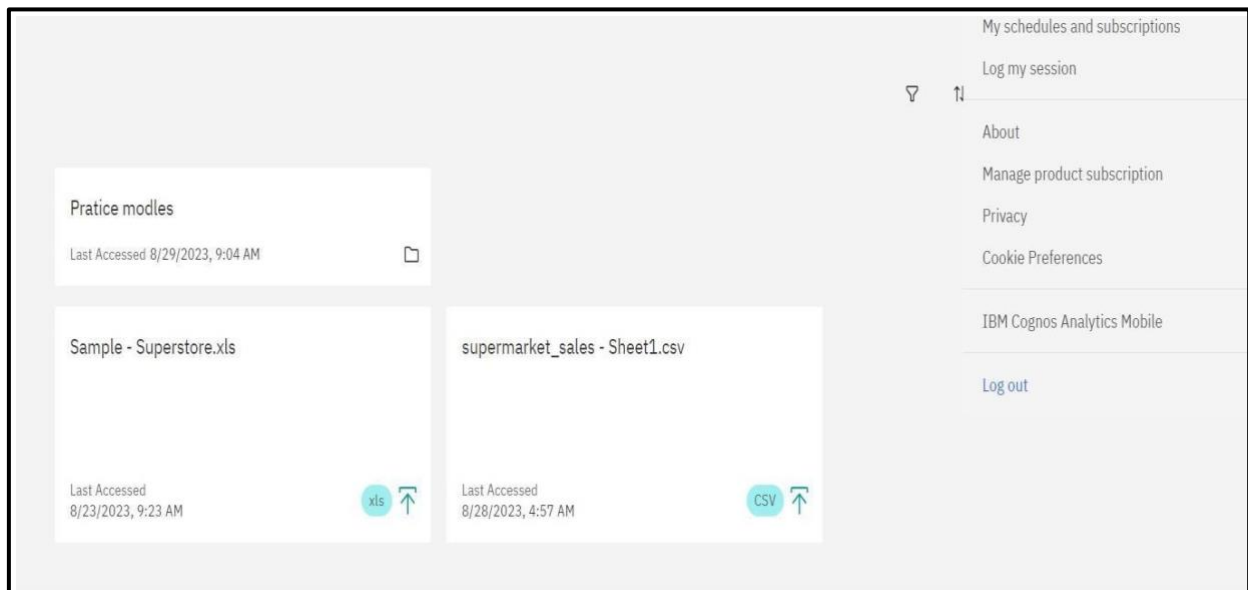
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IBM Cognos Analytics

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 a data table in a software interface. The table has columns: Branch, City, Customer type, Gender, and Product line. The data is as follows:

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 beverages

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

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

Edit calculation

Name: Time category

Components: supermarket_sales_Sheet1.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

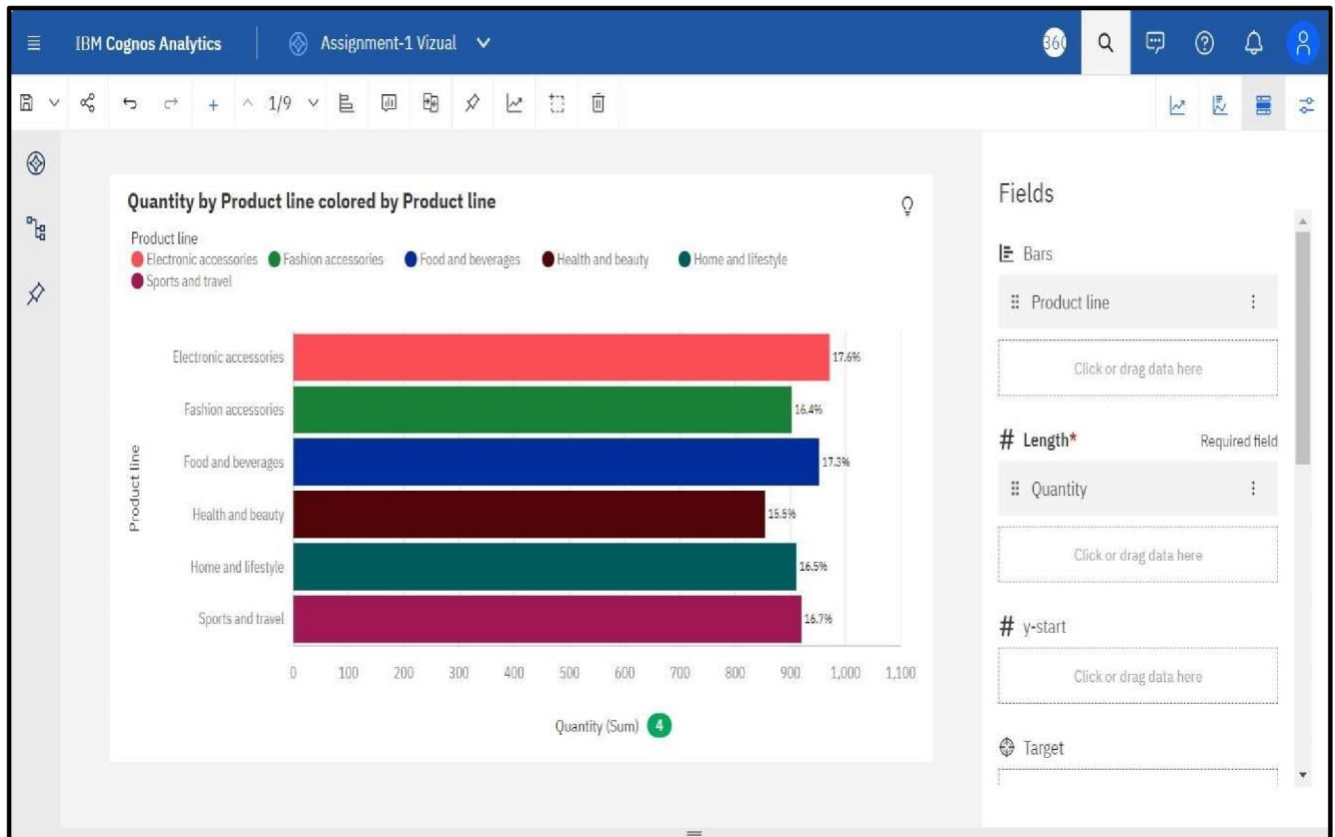
The screenshot shows the IBM Cognos Analytics interface with a 'Save as' dialog box open. The dialog box has a title bar 'Save as' and a close button 'x'. Below the title bar, it says 'Selected destination: Pratices modles'. There are two tabs: 'My content' (selected) and 'Team content'. Below the tabs, the breadcrumb 'My content / Pratices modles' is shown. A table lists the content items:

Name	Type	Last Accessed
Assignment-1 Vizual	Exploration	8/30/2023, 12:34 AM
Assignment-1Mod	Data module	8/30/2023, 12:43 AM
SSDMod	Data module	8/28/2023, 4:28 AM
SSDmod dashboard	Dashboard	8/29/2023, 8:53 AM

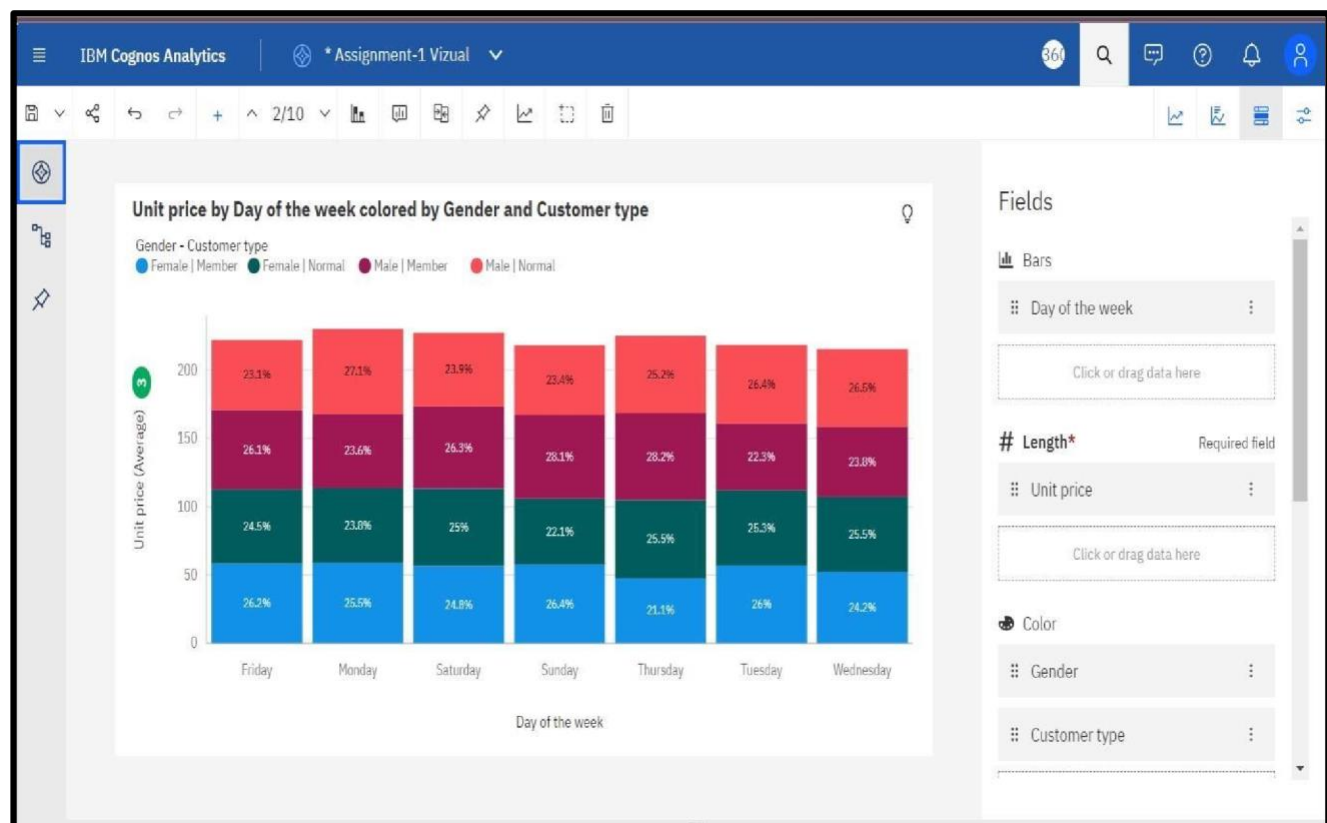
At the bottom of the dialog box, there are two buttons: 'Cancel' and 'Save'.

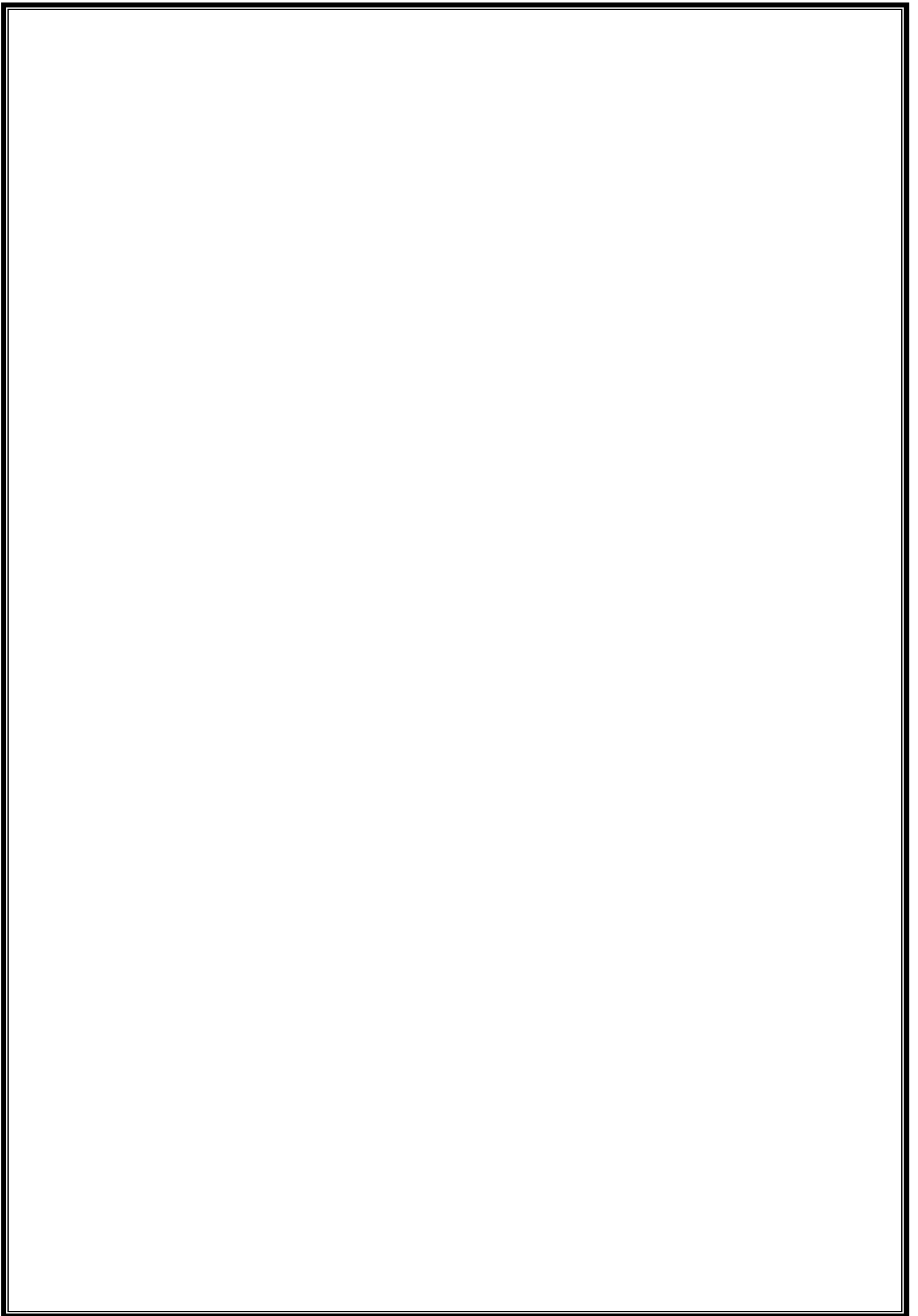
4. Explore And Visualize The Dataset

1. Bar Graph:

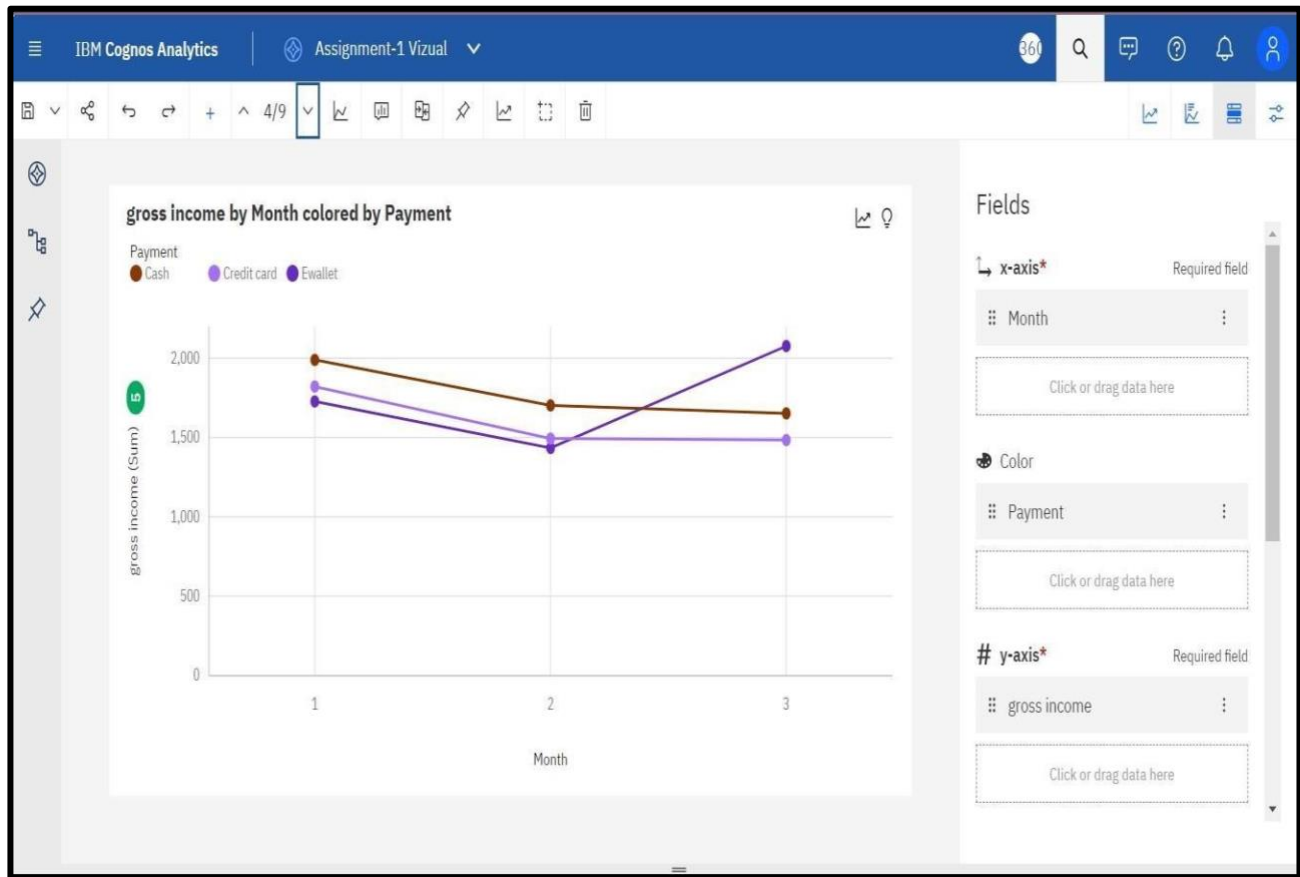


2. Stacked Column chart:

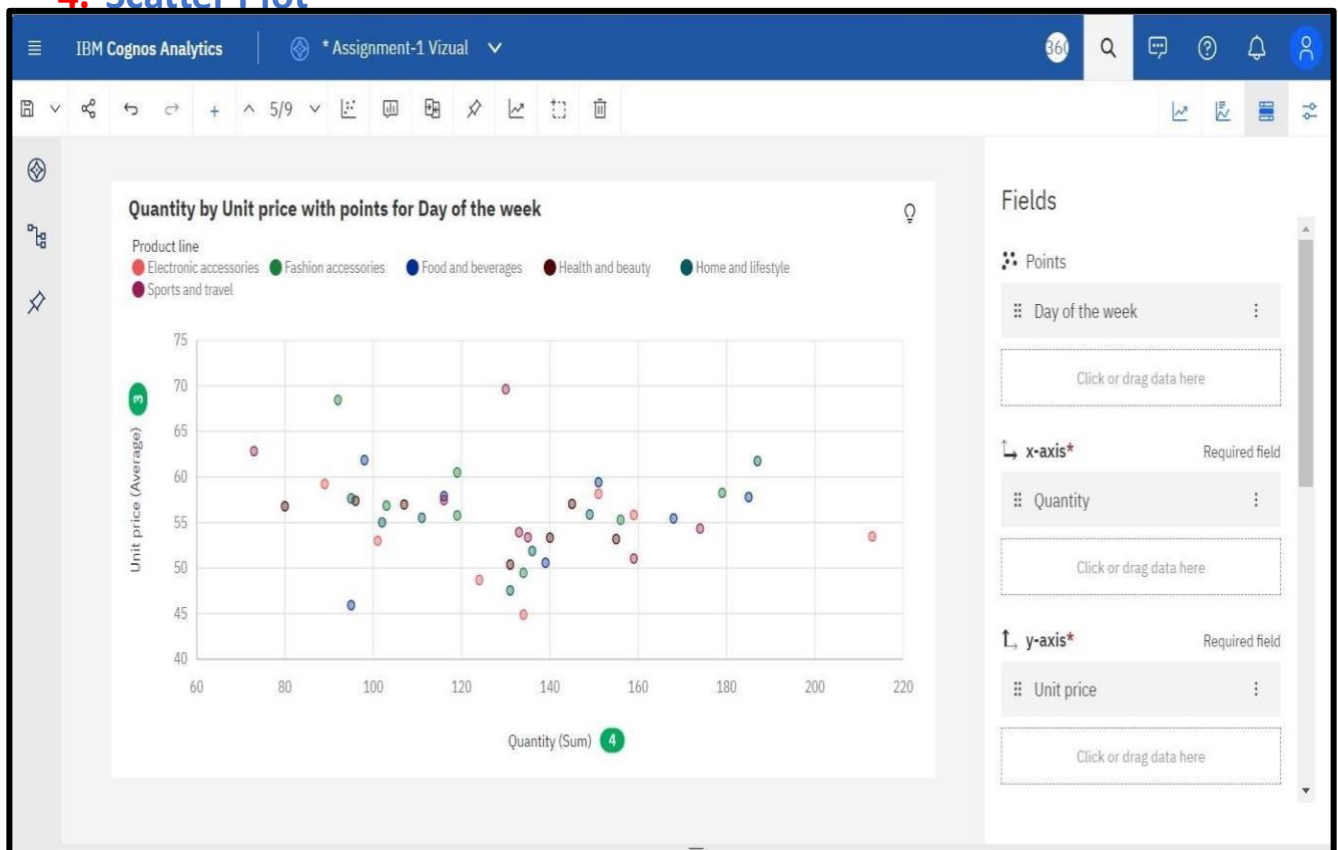




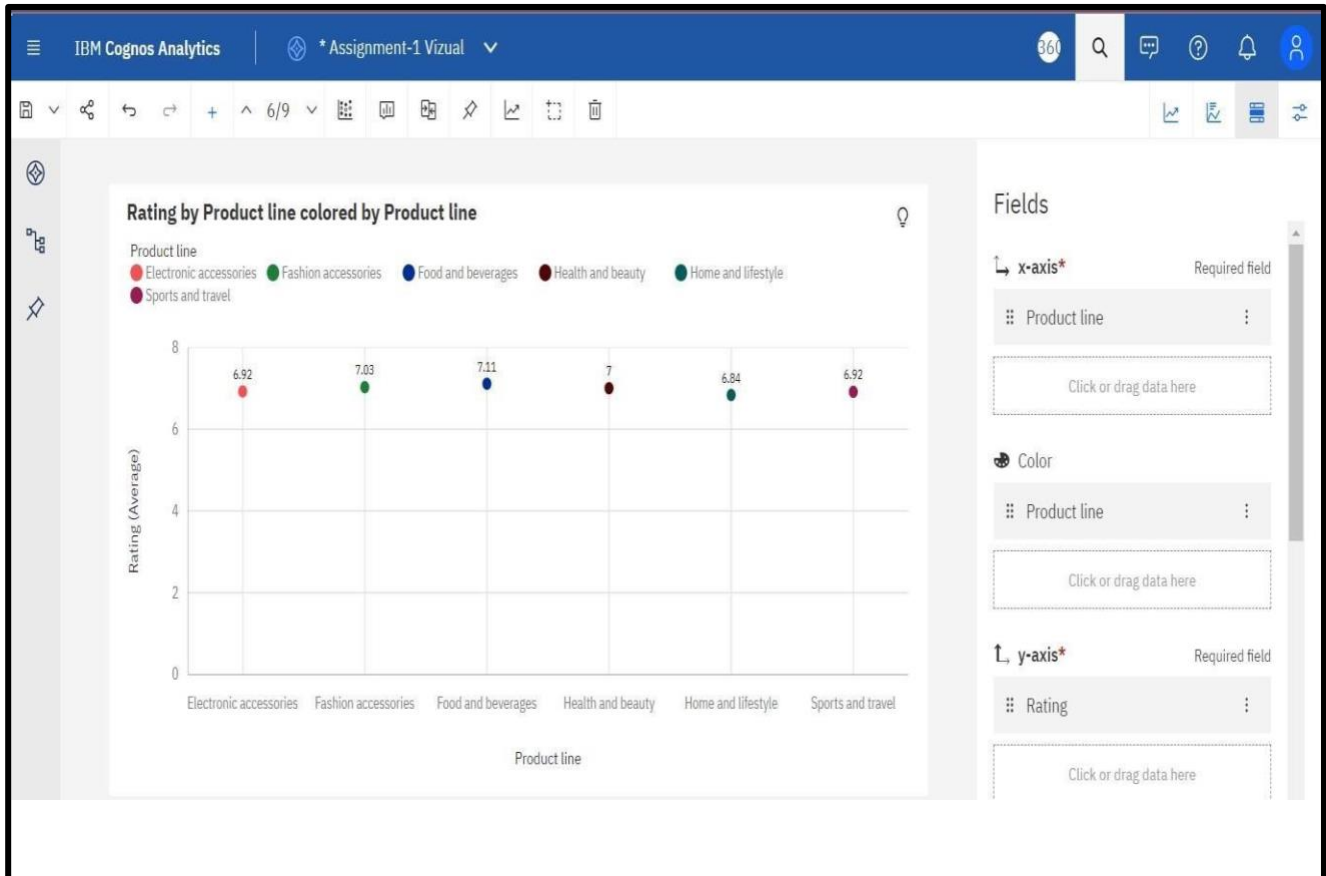
3. Line Chart:



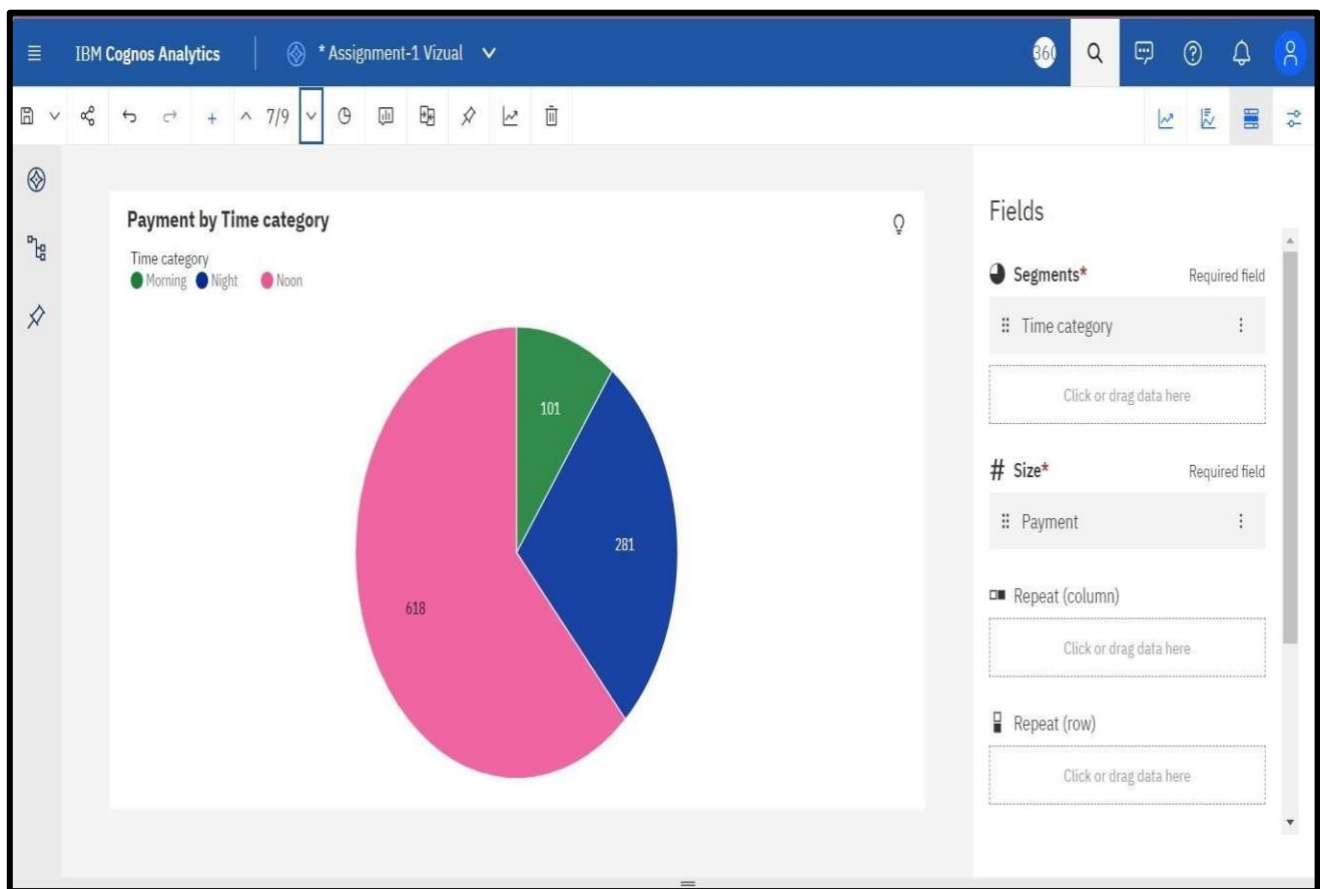
4. Scatter Plot



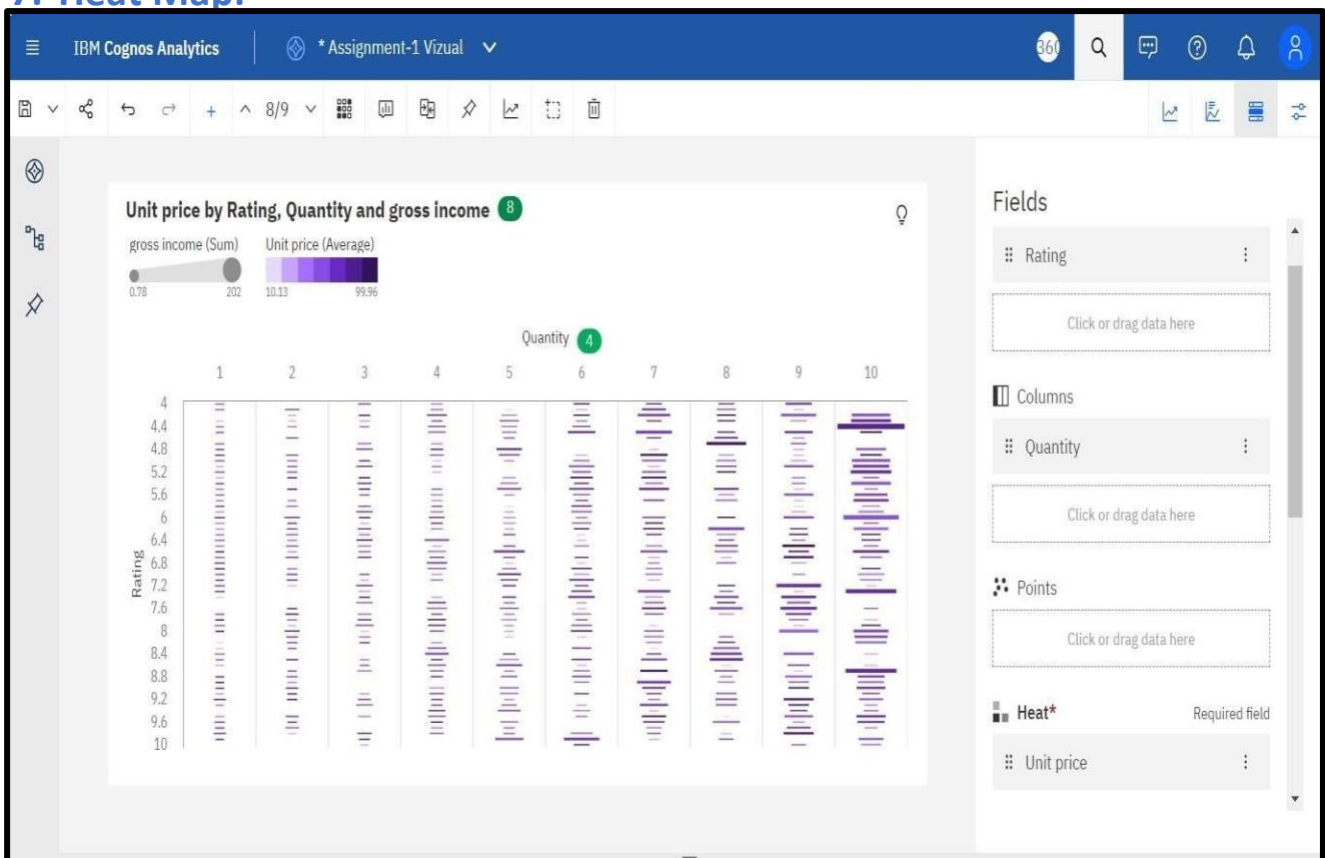
5. Point Graph:

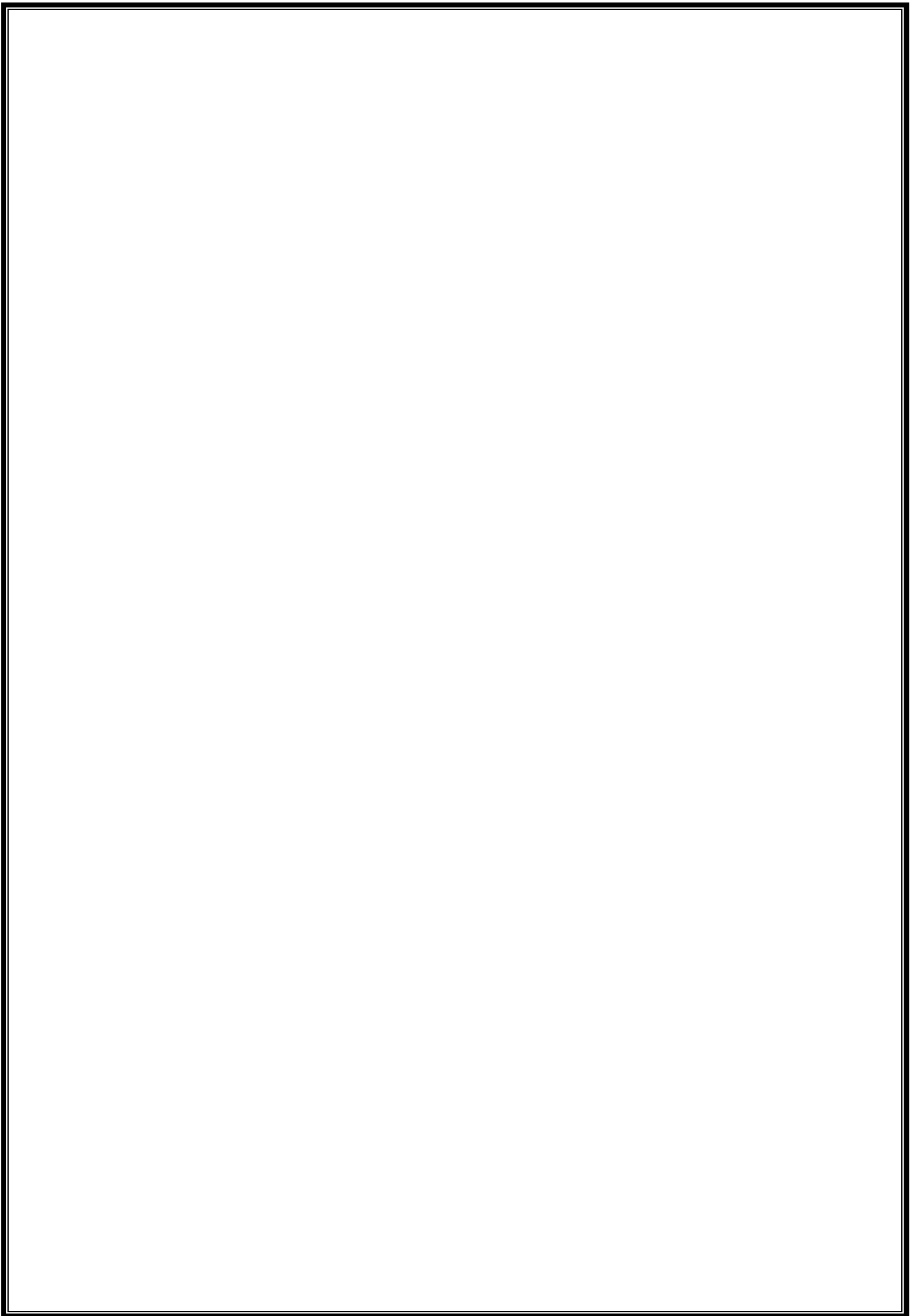


6. Pi - Chart:

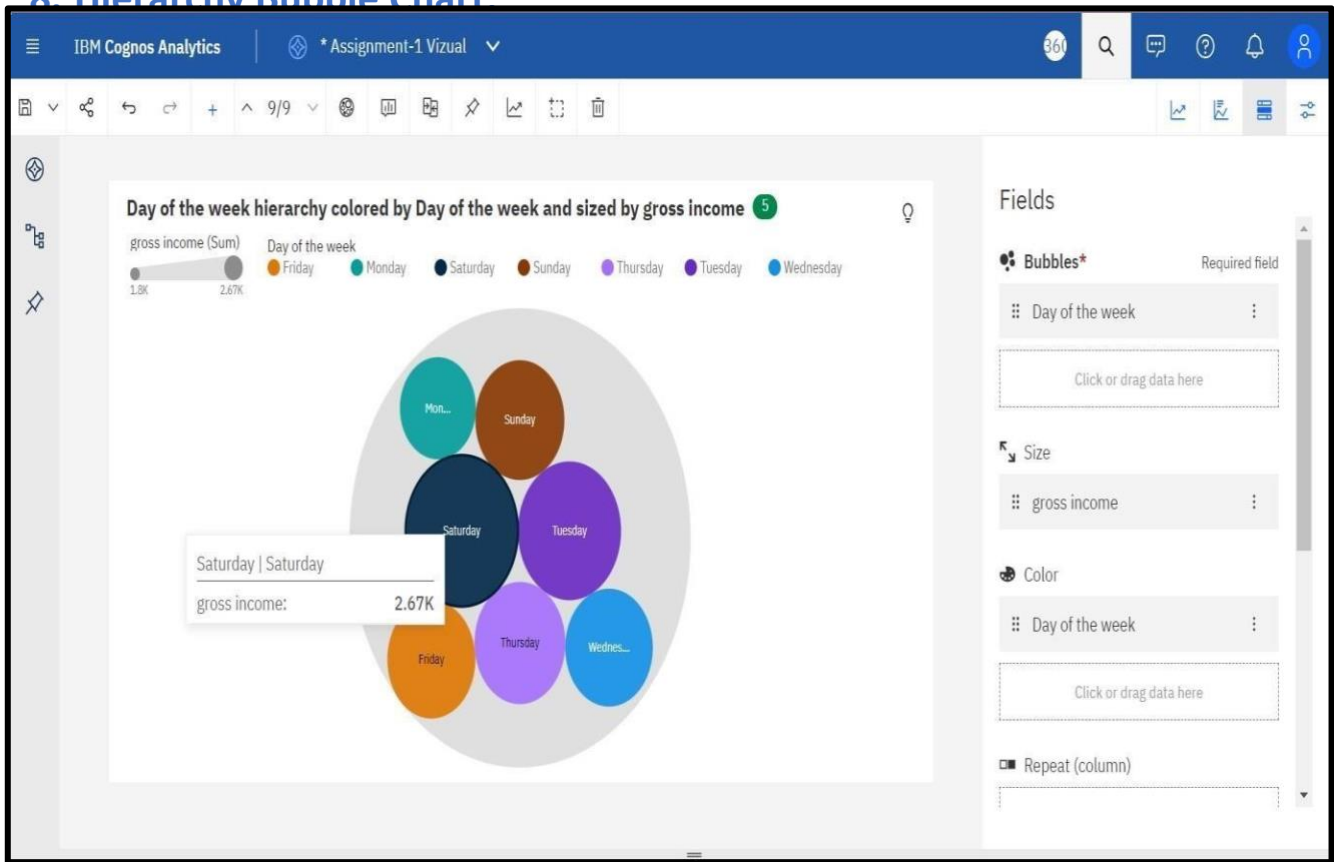


7. Heat Map:





8. Hierarchy Bubble Chart:



9. Line Column Chart:

