

EXP.NO: 1.b	ANALYSIS OF SALES DATA OF SUPERMARKET USING POWER BI	Name:
DATE:		Roll no:

AIM:

To analyze the sales data of supermarket using Power BI.

STEPS TO PERFORM:

Step 1: Import the data into Power bi that is to be analyzed Get data -> Excel file ->open.

Step 2: Edit the data in table by using Power query Transform data -> Excel file -> make changes.

Step 3: By using report from Power Bi and make visuals from it.

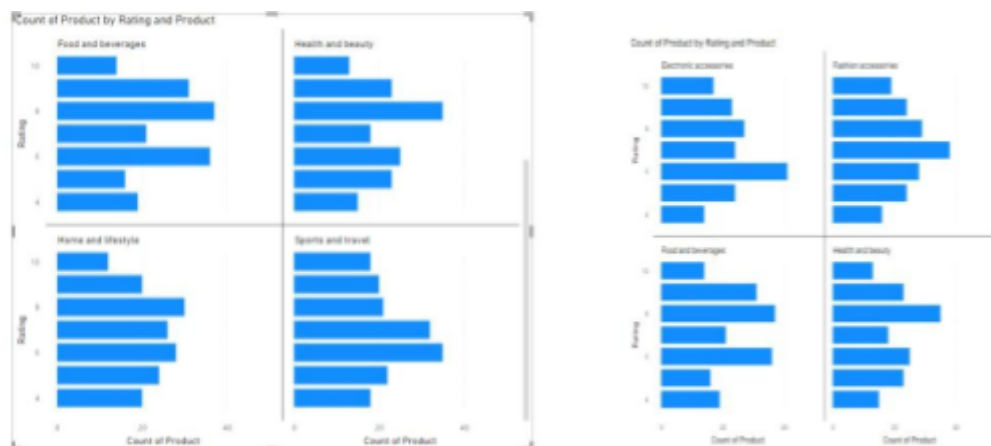
1.Identify the highest rating for each product category.

STEPS TO PERFORM:

Step 1: In Fields column select -> Product and Rating.

Step 2: In Visualizations column select-> Stacked bar chart.

OUTPUT:



INFERENCE:

The highest rating for electronic accessories is 10.

The highest rating for Fashion accessories is 10.

The highest rating for Food and beverages is 10.

The highest rating for Health and beauty is 10.

The highest rating for Home and lifestyle is 10.

The highest rating for sports and travel is 10.

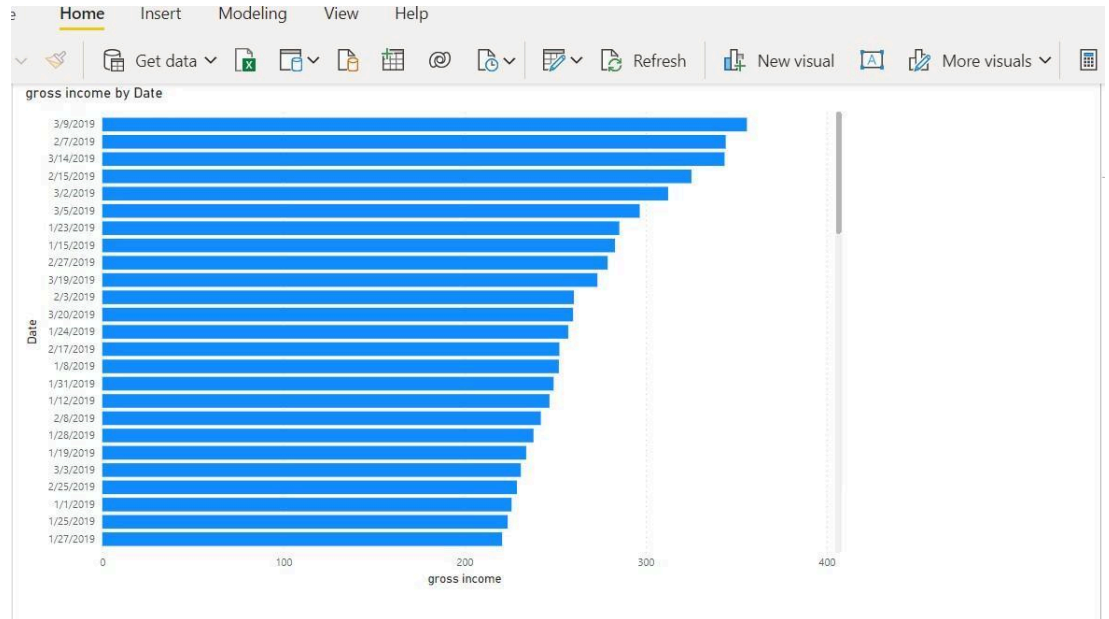
2. Which month have maximum sales in 2019?

STEPS TO PERFORM:

Step 1: In Fields column select -> Date and Rating.

Step 2: In Visualizations column select -> Clustered column chart.

OUTPUT:



INFERENCE:

Month 3 has the maximum sales in 2019

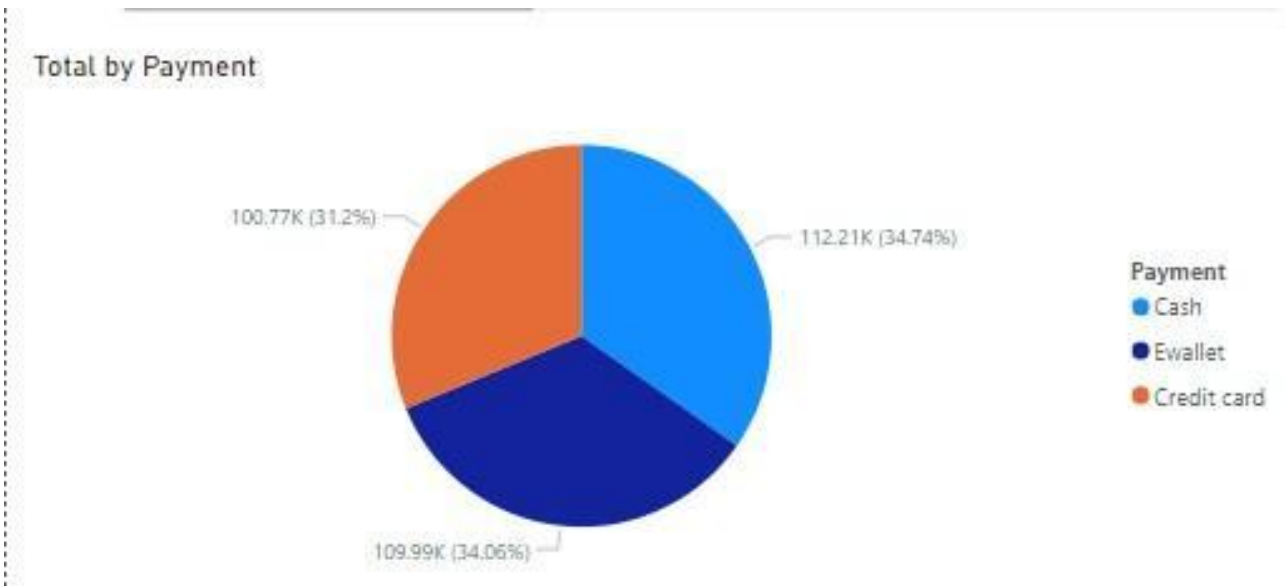
3. Which payment method is most preferred by most customers?

STEPS TO PERFORM:

Step 1: In Fields column select -> Payment and Total.

Step 2: In Visualizations column select -> Pie chart.

OUTPUT:



INFERENCE:

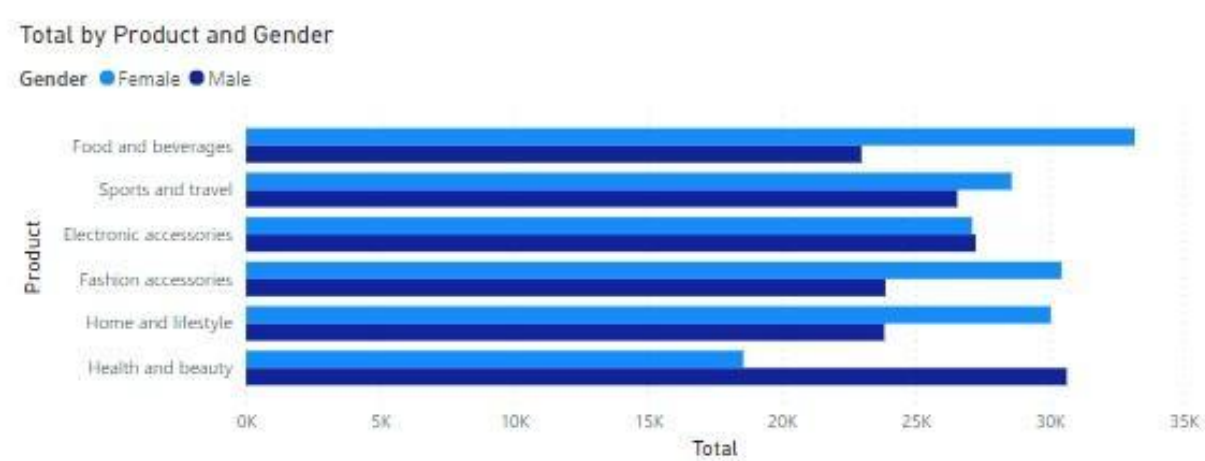
The mode of payment preferred by most customers is **CASH** .

4. Identify the product category most preferred based on gender.

STEPS TO PERFORM:

- Step 1: In Fields column select -> Gender, Product and Total.
- Step 2: In Visualizations column select -> Clustered column chart.

OUTPUT:



INFERENCE:

- Most preferred by MALE – Food and beverages.
- Most preferred by FEMALE – Health and beauty.

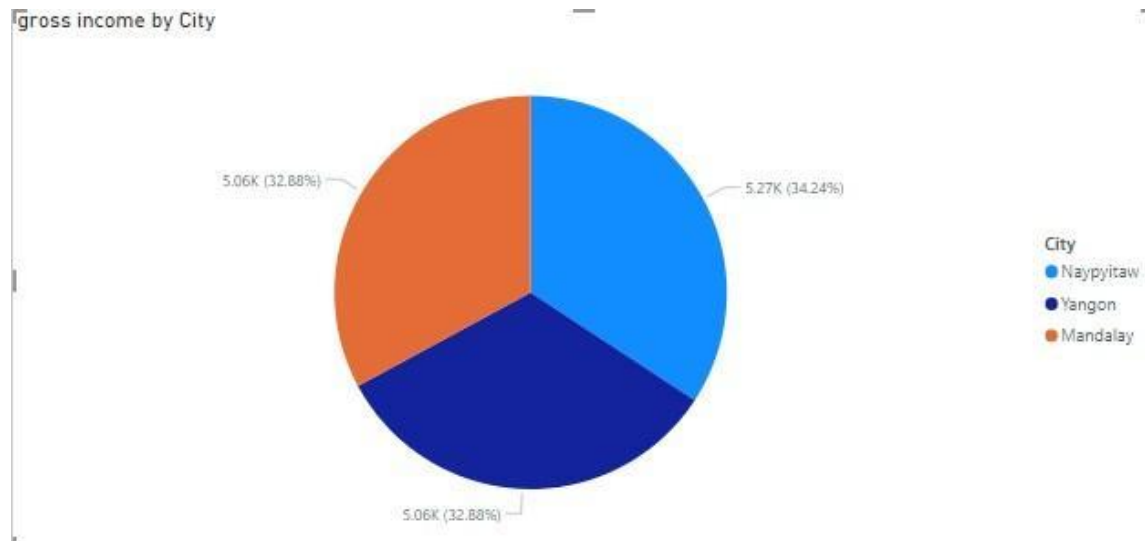
5. Which state has maximum income from customers?

STEPS TO PERFORM:

Step 1: In Fields column select -> City and Gross income.

Step 2: In Visualizations column select -> Pie chart.

OUTPUT:



INFERENCE:

Naypyitaw state has maximum income from customers in Myanmar.

6. Identify the most preferred payment method based on gender.

STEPS TO PERFORM:

Step 1: In Fields column select -> Total, Gender and Payment.

Step 2: In Visualizations column select -> Clustered column chart

OUTPUT:



INFERENCE:

Most preferred payment method Female: CASH

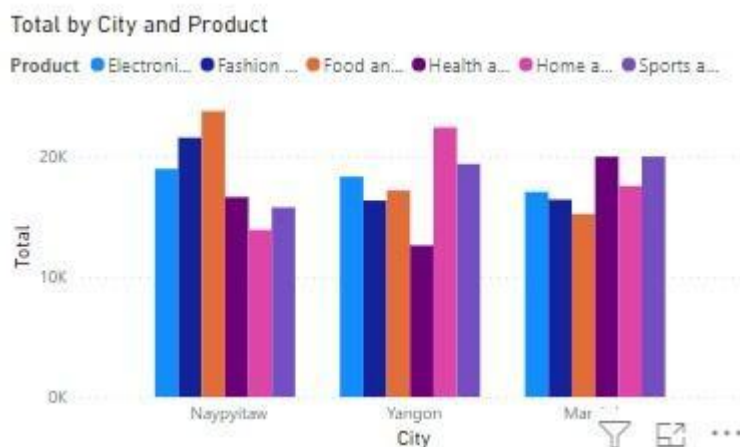
Most preferred payment method Male: EWALLET

7. Identify the product category which have the maximum sales in particular city (A. Yangon, B. Mandalay, Naypyitaw)

STEPS TO PERFORM:

STEP 1: In the field section select -> city, product line, total under supermarket sales

STEP 2: In the Visualization column select -> clustered column chart OUTPUT:



INFERENCE:

Maximum sale in a city:

NAYPYITAW – Food and beverages.

Yangon – Home and lifestyle.

MANDALAY – Health and beauty, Sports and travel.

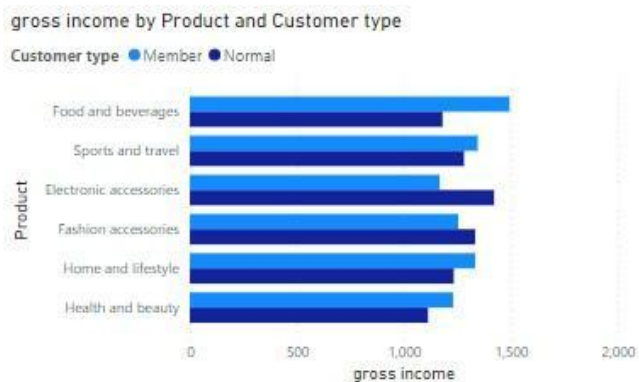
8.Which product have the highest and lowest gross income in each category?

STEPS TO BE PERFORMED:

STEP 1: In the field select -> customer type, gross income, product line under supermarket sales

STEP 2: In the Visualization select -> clustered bar chart

OUTPUT :



INFERENCE:

Highest gross income in MEMBER: Food and beverages.

Lowest gross income in MEMEBER: Electronic accessories.

Highest gross income in NORMAL: Electronic accessories.

Lowest gross income in NORMAL: Health and beauty.

9. Identify the time period in which sales is maximum for each product category [Self – Learning]

STEPS TO PERFORM:

STEP 1: In the field section select -> product line, time, total.

STEP 2: In the visualization section select -> matrix

OUTPUT:

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Time	Electronic accessories	Fashion accessories	Food and beverages	Health and beauty	Home and lifestyle	Sports and travel	Total
10:00:00		472.31	78.38			1308.5	1860.19
10:01:00				22.46		451.34	473.80
10:02:00	451.36					1152.59	1603.95
10:03:00						1152.59	1152.59
10:04:00						827.09	827.09
10:05:00				218.41			218.41
10:06:00		69.34					69.34
10:07:00			74.71				74.71
10:08:00					782.21		782.21
10:09:00					1177.63	140.89	1318.52
10:10:00							208.61
10:11:00							108.41
10:12:00		277.67		214.75			492.42
10:13:00		205.41		205.82			411.23
10:14:00					745.72		745.72
10:15:00					145.22		145.22
10:16:00						256.73	256.73
10:17:00	149.35		186.14				335.49
10:18:00			297.82				297.82
10:19:00	35.41			57.75			93.16
10:20:00							617.71
10:21:00					93.94		93.94
10:22:00		477.34		55.04			532.38
10:23:00		165.37					165.37
10:24:00		245.49		66.42	822.64	198.02	1332.57
10:25:00					408.22	124.42	532.64
10:26:00							408.22
10:27:00							416.11
10:28:00							278.92
10:29:00		89.22		79.97			169.19
10:30:00							79.97
Total	942.45	1,942.65	1,034.46	950.25	1,023.75	1,002.12	6,901.68

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INFERENCE:

- ✓ Time period in which sales is maximum for Electronics and accessories is **931.035**
- ✓ time period in which sales is maximum for Fashion accessories is **874.125**
- ✓ time period in which sales is maximum for Food and beverages is **1034.46**
- ✓ time period in which sales is maximum for Health and beauty is **950.25**
- ✓ time period in which sales is maximum for Home and lifestyle is **1023.75**
- ✓ time period in which sales is maximum for Sport and travel is **1002.12**

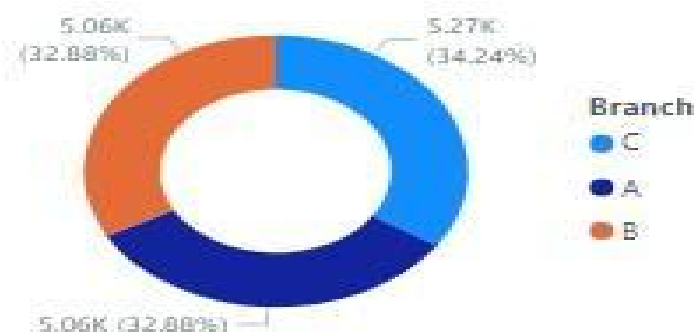
10. Identify the branch which earns maximum profit STEPS TO PERFORM:

STEP 1: In the Field section select -> Branch, Gross income.

STEP 2: In the visualization section select -> Donut chart.

OUTPUT:

gross income by Branch



INFRENCE:

Branch C earns maximum profit.

RESULT:

Thus, the analysis of sales data of supermarket by using POWER BI is analyzed and executed successfully.

Marks given		Marks obtained
COE	25	
RECORD	15	
VIVA	10	
TOTAL	50	