

ASSIGNMENT - 3

DATA ANALYTICS WITH IBM COGNOS

SQL QUERIES:

The screenshot shows the IBM Cognos Query Studio interface. On the left, the 'SCHEMAS' pane displays a tree view with 'supermarket' and 'supermarketdata' tables. The main query editor contains the following SQL:

```
1 use supermarket;  
2 select * from supermarketdata;  
3
```

The 'Result Grid' shows the following data:

| Invoice ID | Branch | City | Customer type | Gender | Product line | Unit price | Quantity | Tax 5% | Total | Date | Time | Payment | cogs | gross per |
|-------------|--------|-----------|---------------|--------|------------------------|------------|----------|---------|----------|-----------|-------|-------------|--------|-----------|
| 750-67-8428 | A | Yangon | Member | Female | Health and beauty | 74.69 | 7 | 26.1415 | 548.9715 | 1/5/2019 | 13:08 | Evolet | 522.83 | 4.761 |
| 226-31-3081 | C | Naypyitaw | Normal | Female | Electronic accessories | 15.28 | 5 | 3.82 | 80.22 | 3/8/2019 | 10:29 | Cash | 76.4 | 4.761 |
| 631-41-3108 | A | Yangon | Normal | Male | Home and lifestyle | 46.33 | 7 | 16.2155 | 340.5255 | 3/3/2019 | 13:23 | Credit card | 324.31 | 4.761 |
| 123-19-1176 | A | Yangon | Member | Male | Health and beauty | 58.22 | 8 | 23.288 | 489.048 | 1/27/2019 | 20:33 | Evolet | 465.76 | 4.761 |
| 373-73-7910 | A | Yangon | Normal | Male | Sports and travel | 86.31 | 7 | 30.2085 | 634.3785 | 2/8/2019 | 10:37 | Evolet | 604.17 | 4.761 |

The 'Output' pane shows the following action output:

| # | Time | Action | Message | Duration / Fetch |
|---|----------|-------------------------------|----------------------|-----------------------|
| 3 | 11:18:08 | use supermarket | 0 row(s) affected | 0.000 sec |
| 4 | 11:18:12 | select * from supermarketdata | 1000 row(s) returned | 0.000 sec / 0.016 sec |

The screenshot shows the IBM Cognos Query Studio interface. On the left, the 'Query 1' pane displays a tree view with 'supermarket' and 'supermarketdata' tables. The main query editor contains the following SQL:

```
1 use supermarket;  
2 select * from supermarketdata;  
3 select `date`, City, `Product line` from supermarketdata;
```

The 'Result Grid' shows the following data:

| date | City | Product line |
|-----------|-----------|------------------------|
| 1/5/2019 | Yangon | Health and beauty |
| 3/8/2019 | Naypyitaw | Electronic accessories |
| 3/3/2019 | Yangon | Home and lifestyle |
| 1/27/2019 | Yangon | Health and beauty |
| 2/8/2019 | Yangon | Sports and travel |
| 3/25/2019 | Naypyitaw | Electronic accessories |
| 2/25/2019 | Yangon | Electronic accessories |

ADDING OF REVENUE TABLE:

Query 1

```

1 • use supermarket;
2 • select * from supermarketdata;
3 • select 'date', City, 'Product line' from supermarketdata;
4 • alter table supermarketdata add revenue int;
5 • select * from supermarketdata;
6 • update supermarketdata set revenue =((Total * Quantity));
7 • select * from supermarketdata;

```

Result Grid

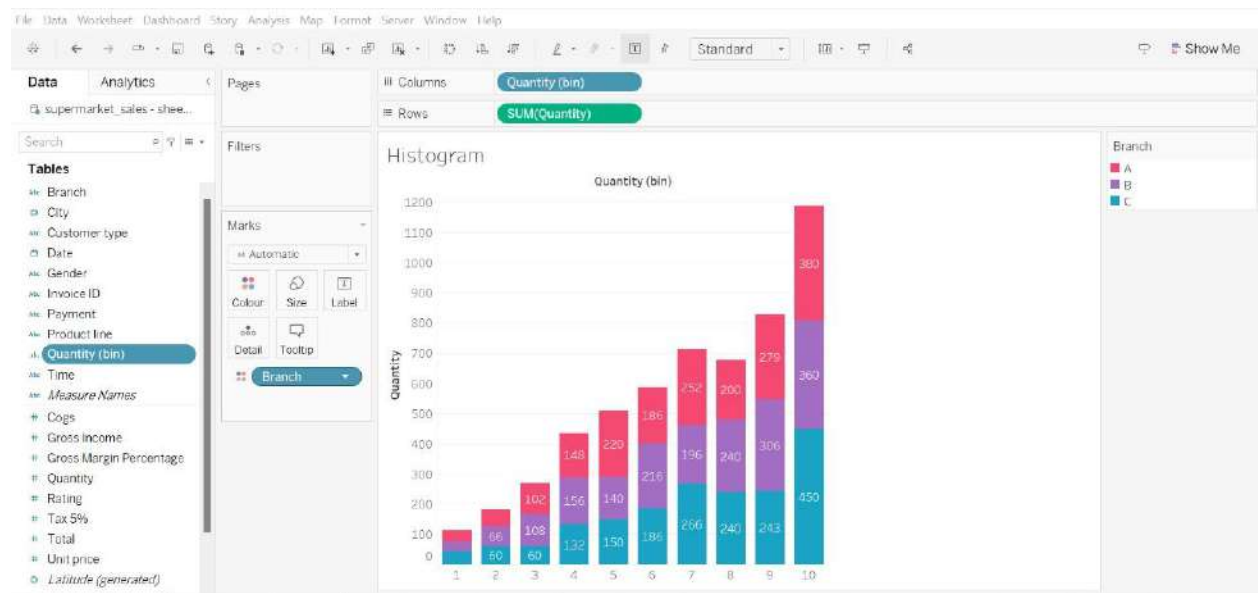
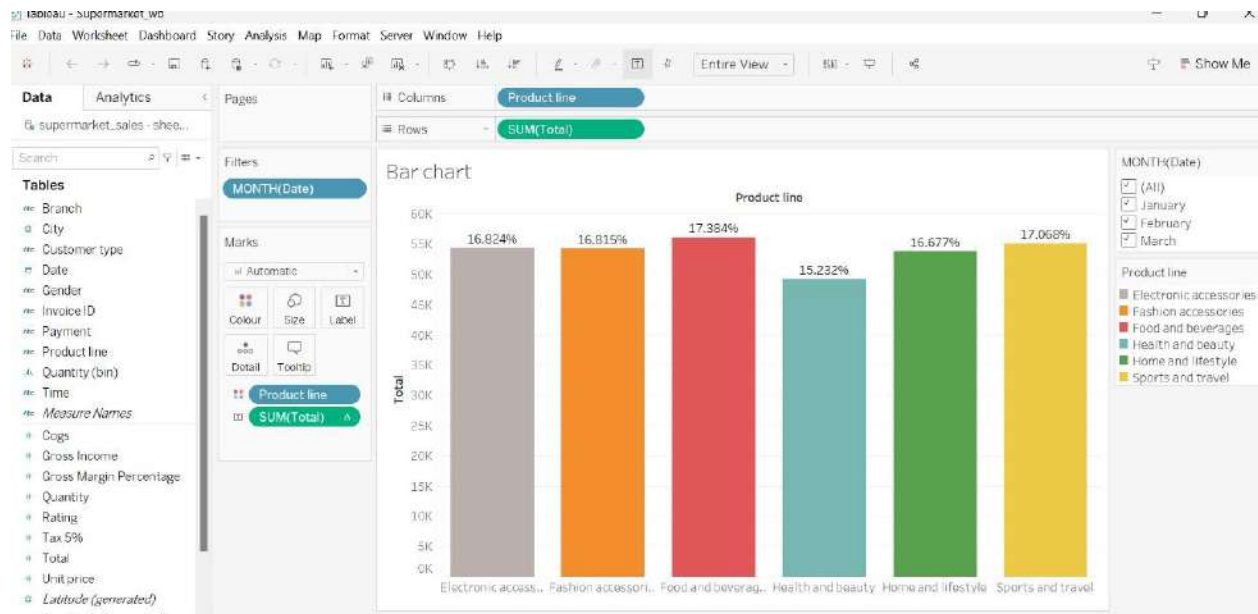
| Invoice ID | Branch | City | Customer type | Gender | Product line | Unit price | Quantity | Tax 5% | Total | Date | Time | Payment | cogs | gross perce |
|-------------|--------|-----------|---------------|--------|------------------------|------------|----------|---------|----------|-----------|-------|-------------|--------|-------------|
| 750-67-8428 | A | Yangon | Member | Female | Health and beauty | 74.69 | 7 | 26.1415 | 548.9715 | 1/5/2019 | 13:08 | Ewallet | 522.83 | 4.761 |
| 226-31-3081 | C | Naypyitaw | Normal | Female | Electronic accessories | 15.28 | 5 | 3.82 | 80.22 | 3/8/2019 | 10:29 | Cash | 76.4 | 4.761 |
| 531-41-3108 | A | Yangon | Normal | Male | Home and lifestyle | 46.33 | 7 | 16.2155 | 340.5255 | 3/3/2019 | 13:23 | Credit card | 324.31 | 4.761 |
| 123-19-1176 | A | Yangon | Member | Male | Health and beauty | 58.22 | 8 | 23.288 | 469.048 | 1/27/2019 | 20:33 | Ewallet | 465.76 | 4.761 |
| 373-73-7910 | A | Yangon | Normal | Male | Sports and travel | 86.31 | 7 | 30.2085 | 634.3785 | 2/8/2019 | 10:37 | Ewallet | 604.17 | 4.761 |

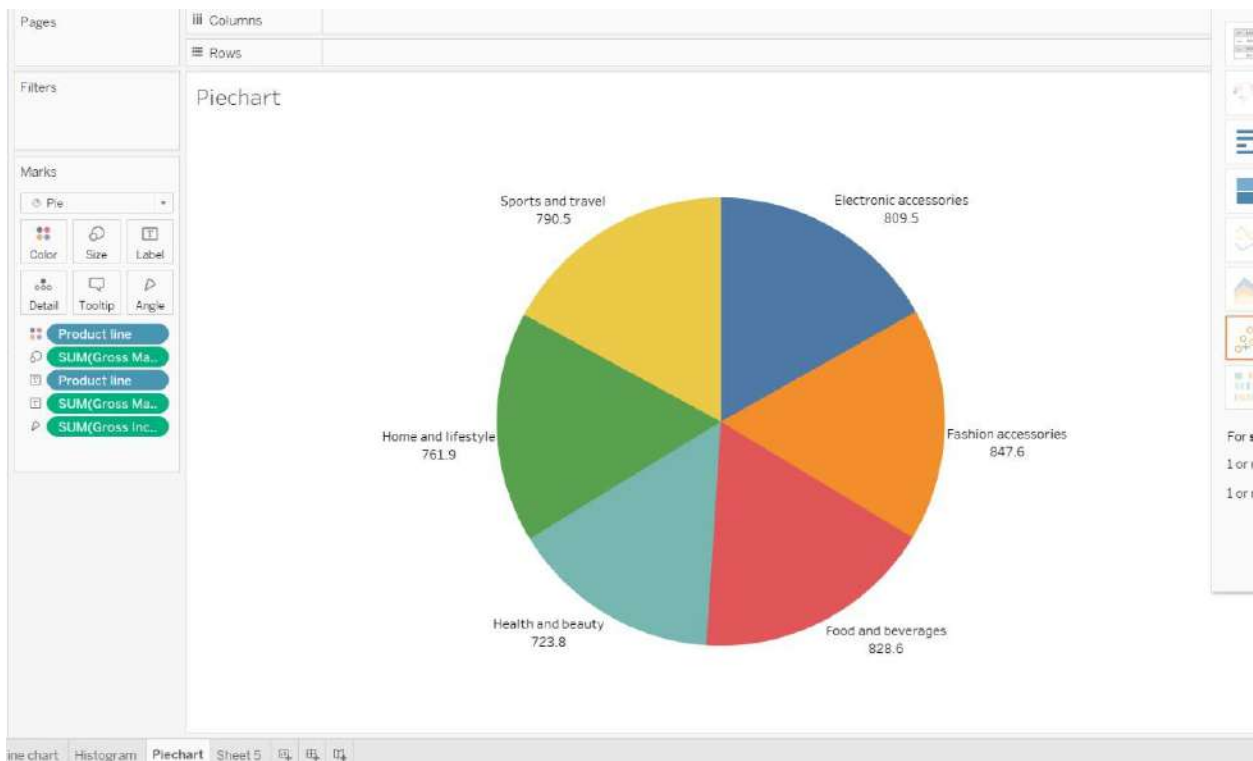
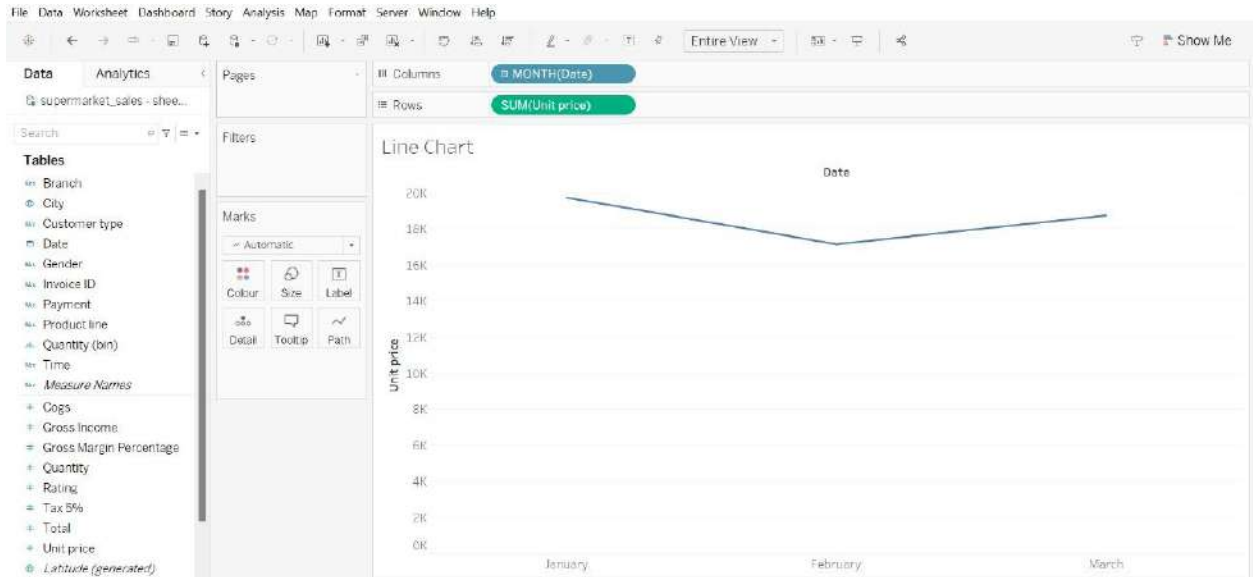
supermarketdata 4

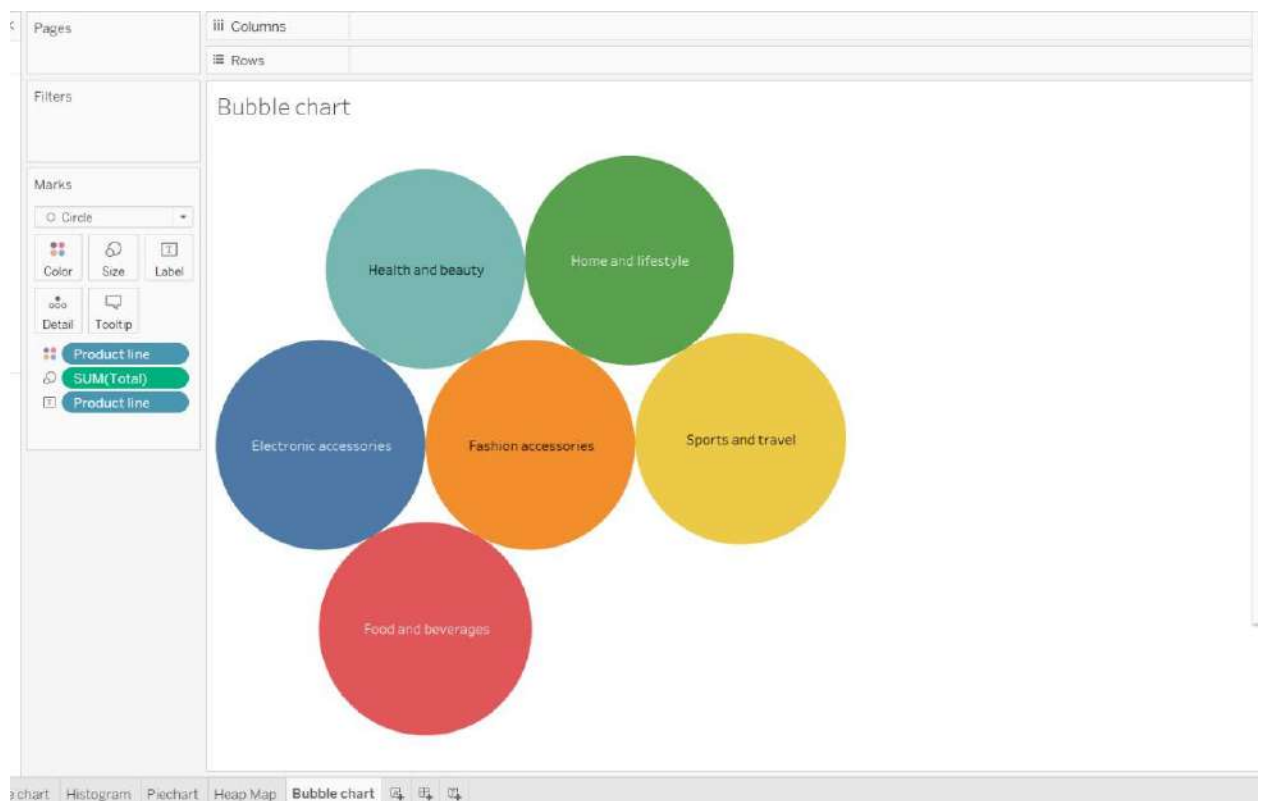
Read Only

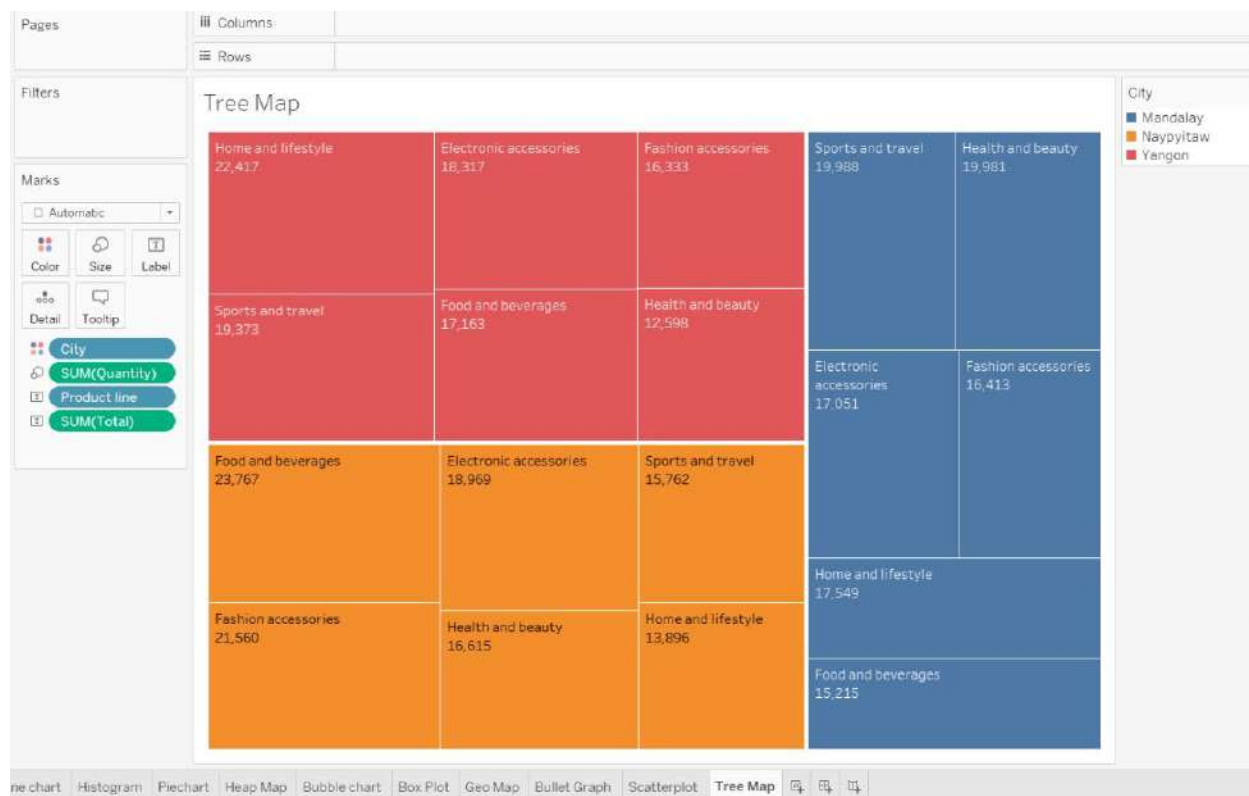
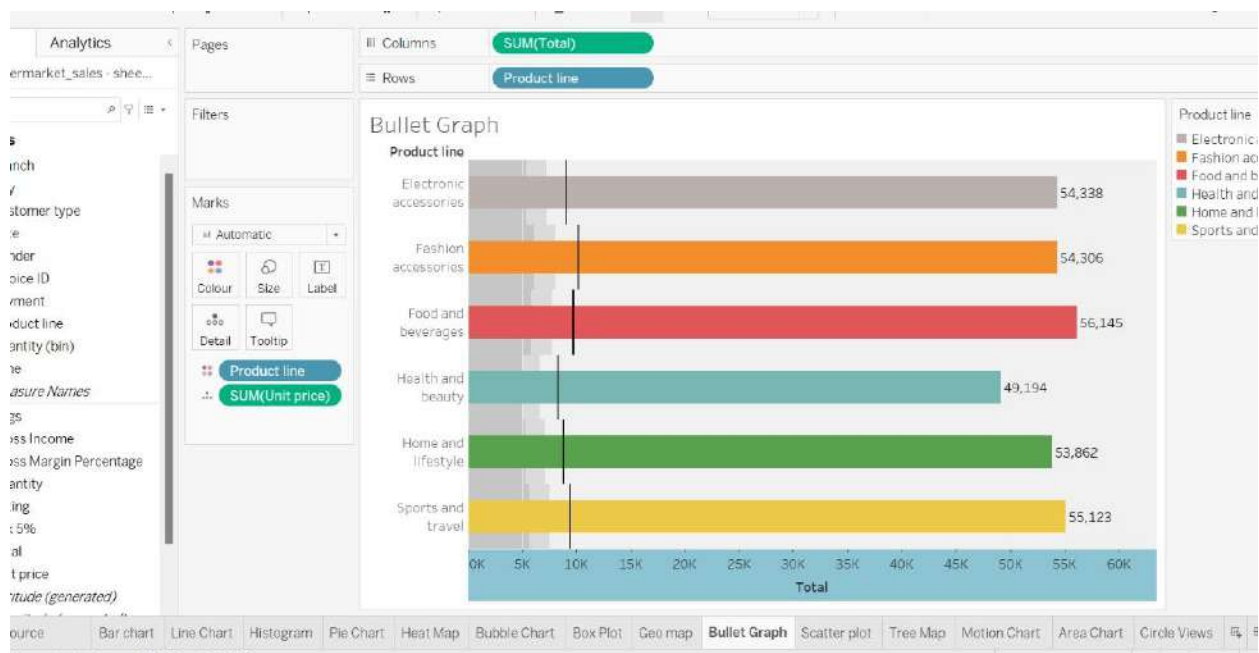
| Gender | Product line | Unit price | Quantity | Tax 5% | Total | Date | Time | cogs | gross margin percentage | gross income | Rating | revenue |
|--------|------------------------|------------|----------|---------|----------|-----------|-------|--------|-------------------------|--------------|--------|--------------------|
| Female | Health and beauty | 74.69 | 7 | 26.1415 | 548.9715 | 1/5/2019 | 13:08 | 522.83 | 4.761904762 | 26.1415 | 9.1 | -513.73 |
| Female | Electronic accessories | 15.28 | 5 | 3.82 | 80.22 | 3/8/2019 | 10:29 | 76.4 | 4.761904762 | 3.82 | 9.6 | -66.80000000000001 |
| Male | Home and lifestyle | 46.33 | 7 | 16.2155 | 340.5255 | 3/3/2019 | 13:23 | 324.31 | 4.761904762 | 16.2155 | 7.4 | -316.91 |
| Male | Health and beauty | 58.22 | 8 | 23.288 | 469.048 | 1/27/2019 | 20:33 | 465.76 | 4.761904762 | 23.288 | 8.4 | -457.36 |
| Male | Sports and travel | 86.31 | 7 | 30.2085 | 634.3785 | 2/8/2019 | 10:37 | 604.17 | 4.761904762 | 30.2085 | 5.3 | -598.87 |
| Male | Electronic accessories | 85.39 | 7 | 29.8865 | 627.6165 | 3/25/2019 | 18:30 | 597.73 | 4.761904762 | 29.8865 | 4.1 | -593.63 |
| Female | Electronic accessories | 68.84 | 6 | 20.652 | 433.692 | 2/25/2019 | 14:36 | 413.04 | 4.761904762 | 20.652 | 5.8 | -407.24 |
| Female | Home and lifestyle | 73.56 | 10 | 36.78 | 772.38 | 2/24/2019 | 11:38 | 735.6 | 4.761904762 | 36.78 | 8 | -727.6 |
| Female | Health and beauty | 36.26 | 2 | 3.626 | 76.146 | 1/10/2019 | 17:15 | 72.52 | 4.761904762 | 3.626 | 7.2 | -65.32 |
| Female | Food and beverages | 54.84 | 3 | 8.226 | 172.746 | 2/20/2019 | 13:27 | 164.52 | 4.761904762 | 8.226 | 5.9 | -158.62 |
| Female | Fashion accessories | 14.48 | 4 | 2.896 | 60.816 | 2/6/2019 | 18:07 | 57.92 | 4.761904762 | 2.896 | 4.5 | -53.42 |
| Male | Electronic accessories | 25.51 | 4 | 5.102 | 107.142 | 3/9/2019 | 17:03 | 102.04 | 4.761904762 | 5.102 | 6.8 | -95.24000000000001 |
| Female | Electronic accessories | 46.95 | 5 | 11.7375 | 246.4875 | 2/12/2019 | 10:25 | 234.75 | 4.761904762 | 11.7375 | 7.1 | -227.65 |
| Male | Food and beverages | 43.19 | 10 | 21.595 | 453.495 | 2/7/2019 | 16:48 | 431.9 | 4.761904762 | 21.595 | 8.2 | -423.7 |
| Female | Health and beauty | 71.38 | 10 | 35.69 | 749.49 | 3/29/2019 | 19:21 | 713.8 | 4.761904762 | 35.69 | 5.7 | -708.0999999999999 |

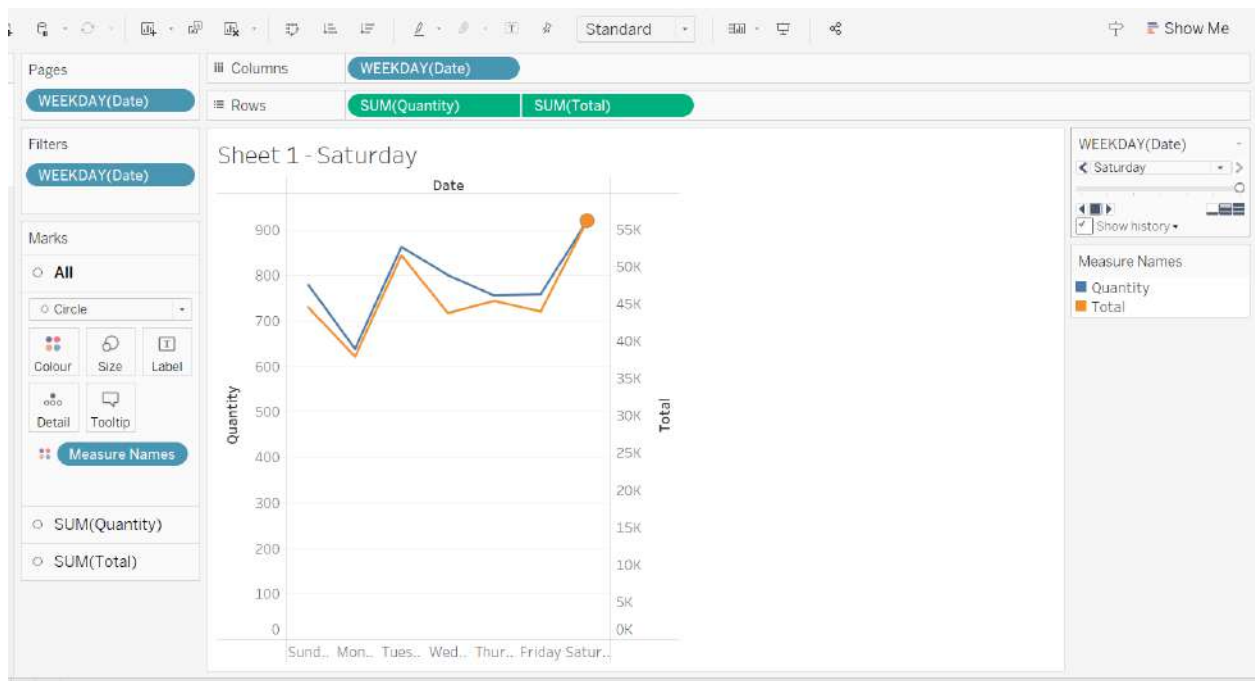
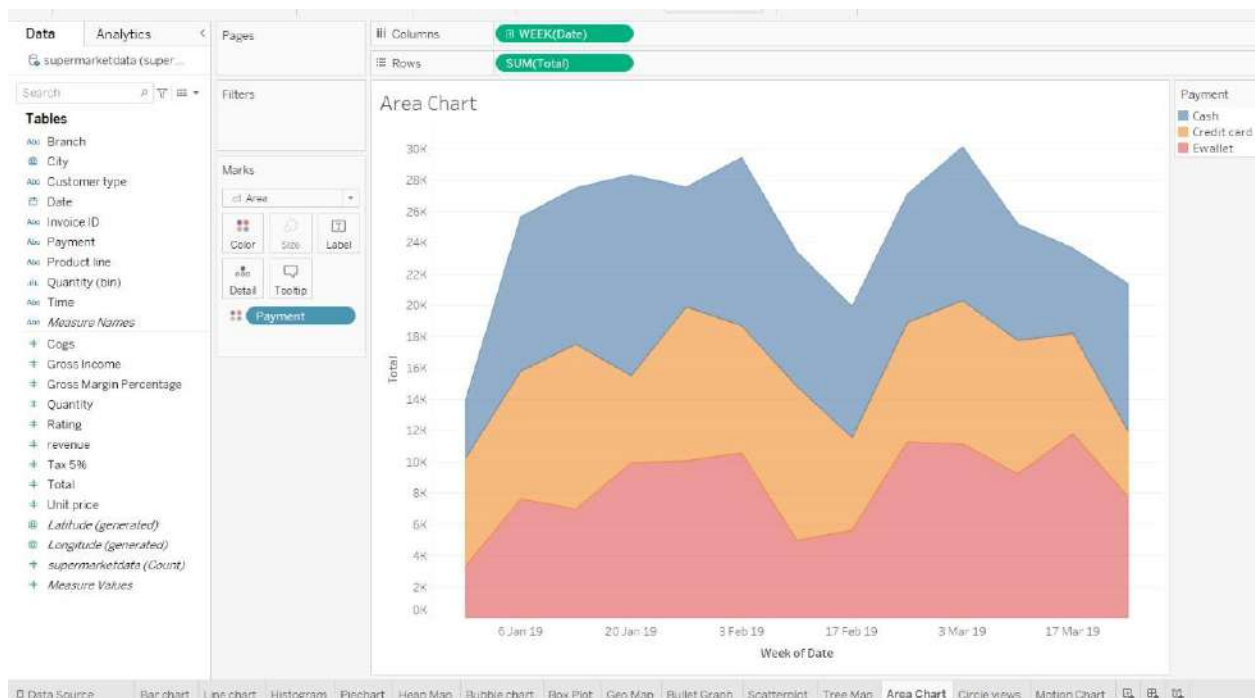
VISUALIZATIONS:

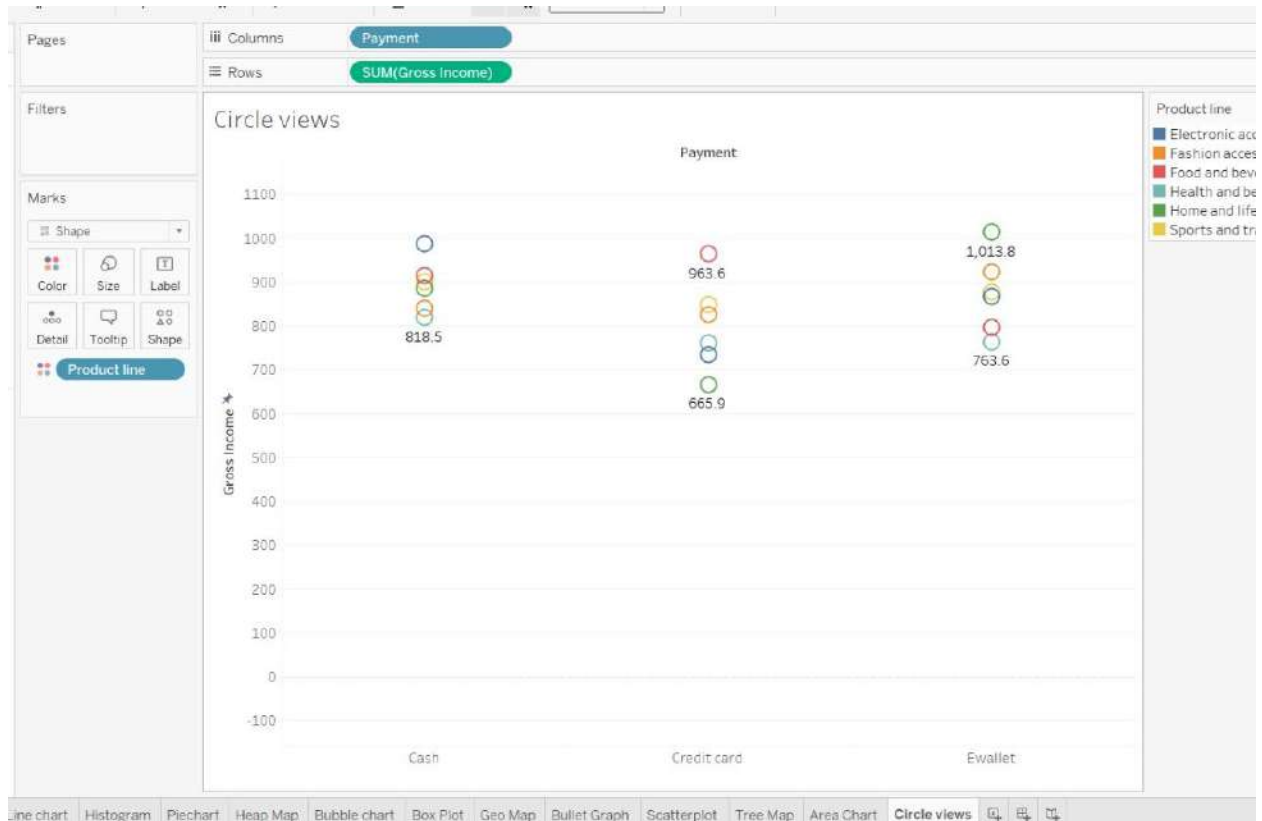












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