Big Data & Data Analytics-2

Mohan Akshay Bhogadi
170049
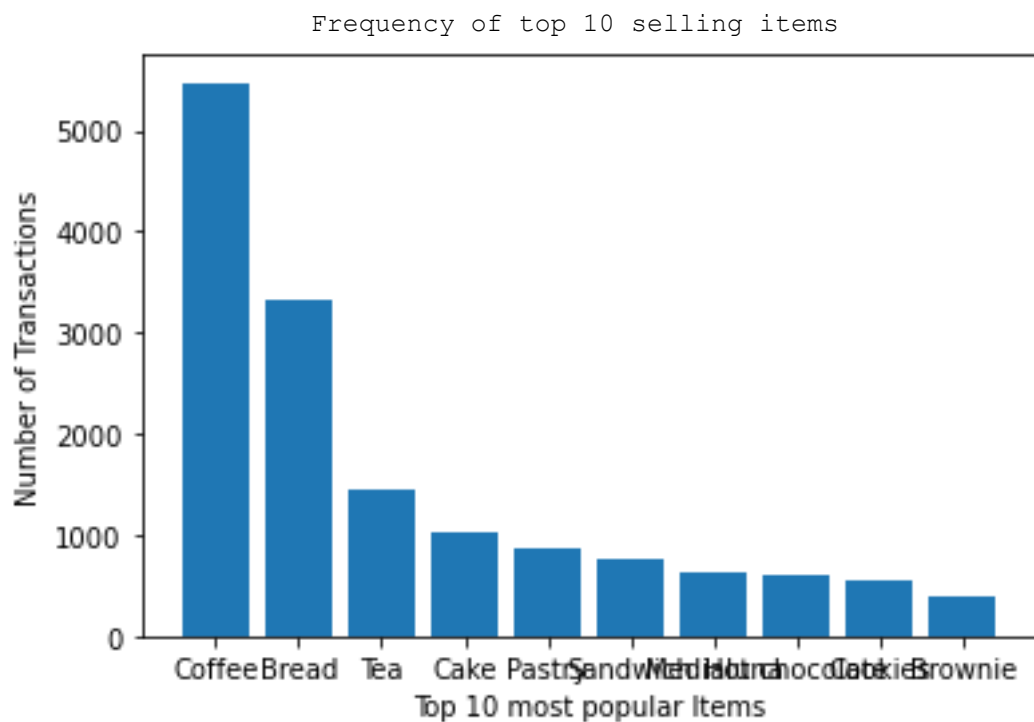
WEEK-7

Project Activity - 1

Section – A

GitHub Link:

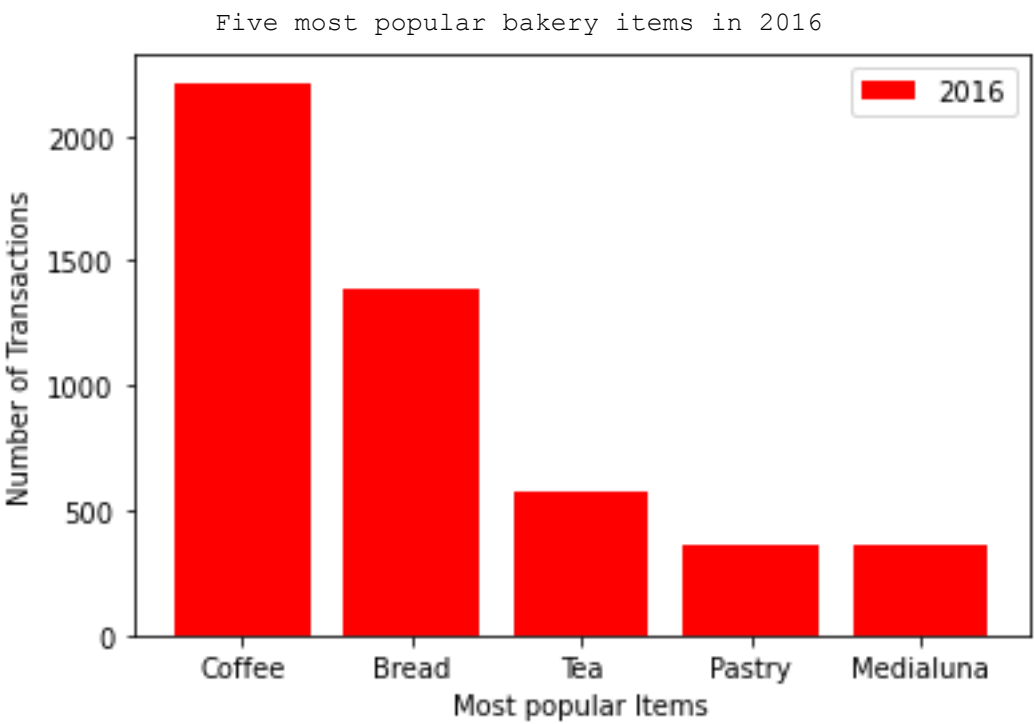https://github.com/MohanAkshay/170049_BD2_ProjectActivity1.git

Ans 1:


```
Top 10 most popular items:
['Coffee', 'Bread', 'Tea', 'Cake', 'Pastry', 'Sandwich', 'Medialuna',
'Hot chocolate', 'Cookies', 'Brownie']
```

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Ans 2:

Five most popular bakery items in 2016

5 most popular items in 2016 is:

```
   Date              Time  Transaction            Item  Year  Month  \
0  2016-10-30  2020-10-18 09:58:11            1          Bread  2016     10
1  2016-10-30  2020-10-18 10:05:34            2    Scandinavian  2016     10
2  2016-10-30  2020-10-18 10:05:34            2    Scandinavian  2016     10
3  2016-10-30  2020-10-18 10:07:57            3   Hot chocolate  2016     10
4  2016-10-30  2020-10-18 10:07:57            3             Jam  2016     10

   Day  Weekday  Hour
0   30        6     9
1   30        6    10
2   30        6    10
3   30        6    10
4   30        6    10
```
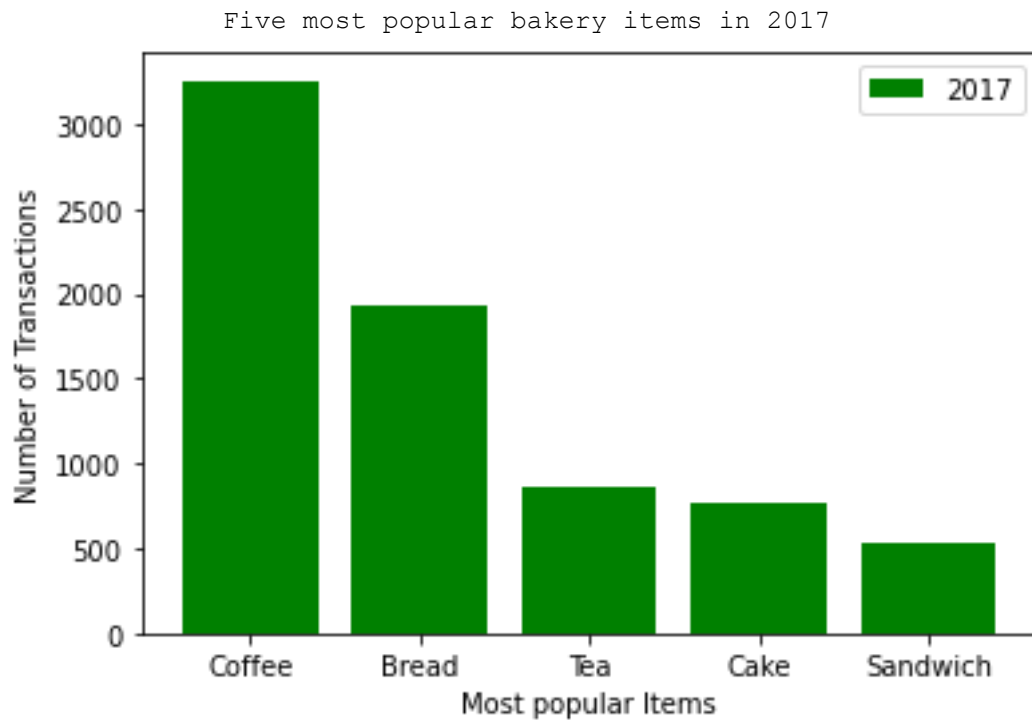
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Ans 3:

Five most popular bakery items in 2017


```
5 most popular items in 2017 is:
          Date                Time  Transaction        Item  Year  Month  \
8561  2017-01-01  2020-10-18 01:21:05         4090       Bread  2017      1
8562  2017-03-01  2020-10-18 09:08:01         4094      Coffee  2017      3
8563  2017-03-01  2020-10-18 09:14:31         4095      Coffee  2017      3
8564  2017-03-01  2020-10-18 09:14:31         4095       Toast  2017      3
8565  2017-03-01  2020-10-18 09:17:54         4096  Farm House  2017      3

          Day  Weekday  Hour
8561       1        6     1
8562       1        2     9
8563       1        2     9
8564       1        2     9
8565       1        2     9
```
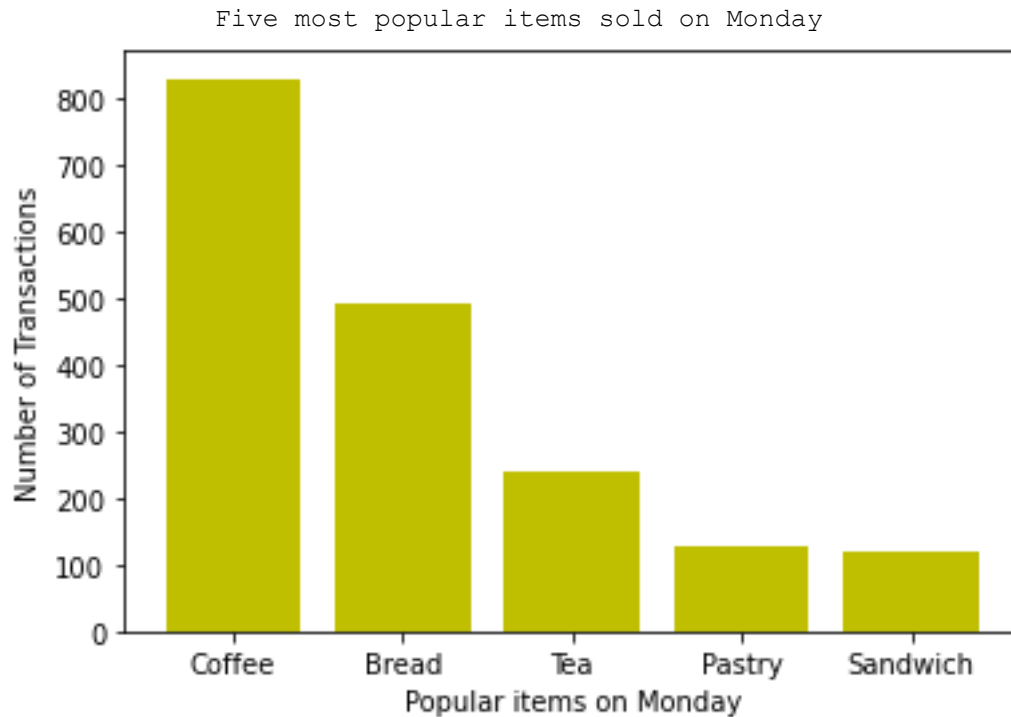
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Ans 4:

Five most popular items sold on Monday


```
     5 most popular items sold on monday is:
        Date                 Time  Transaction     Item  Year  Month  Day  \
180  2016-10-31  2020-10-18 08:28:31           81   Coffee  2016     10   31
181  2016-10-31  2020-10-18 08:28:31           81     Cake  2016     10   31
182  2016-10-31  2020-10-18 08:47:05           82  Tartine  2016     10   31
184  2016-10-31  2020-10-18 08:47:05           82    Bread  2016     10   31
185  2016-10-31  2020-10-18 08:57:47           83   Coffee  2016     10   31

        Weekday  Hour
180           0     8
181           0     8
182           0     8
184           0     8
185           0     8
```
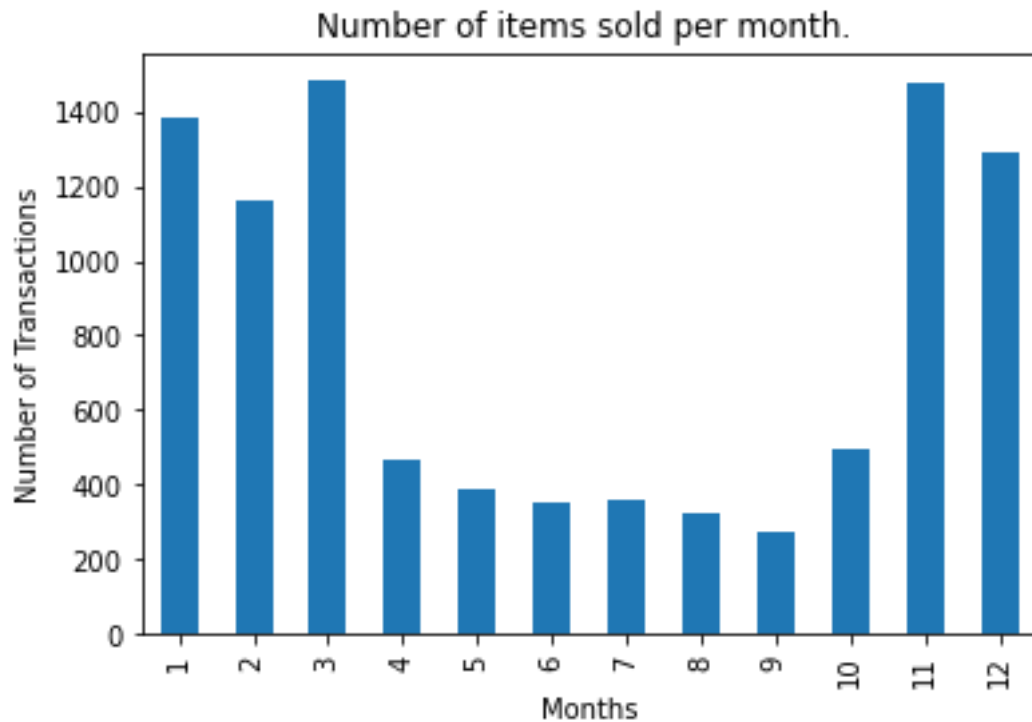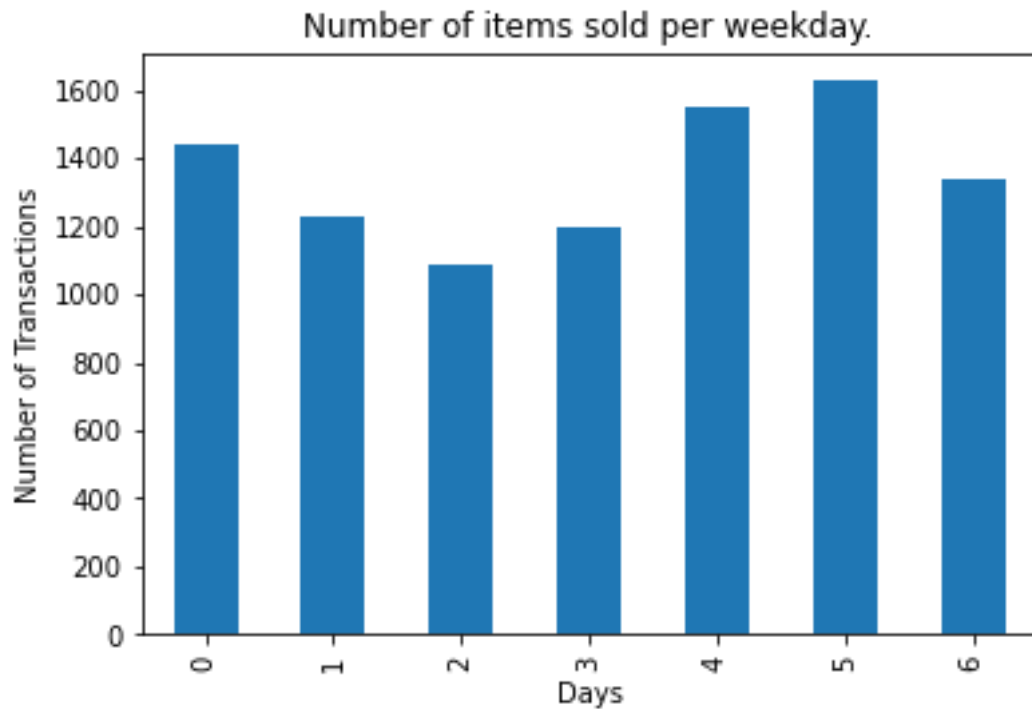
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Ans 5:

The number of items sold per month

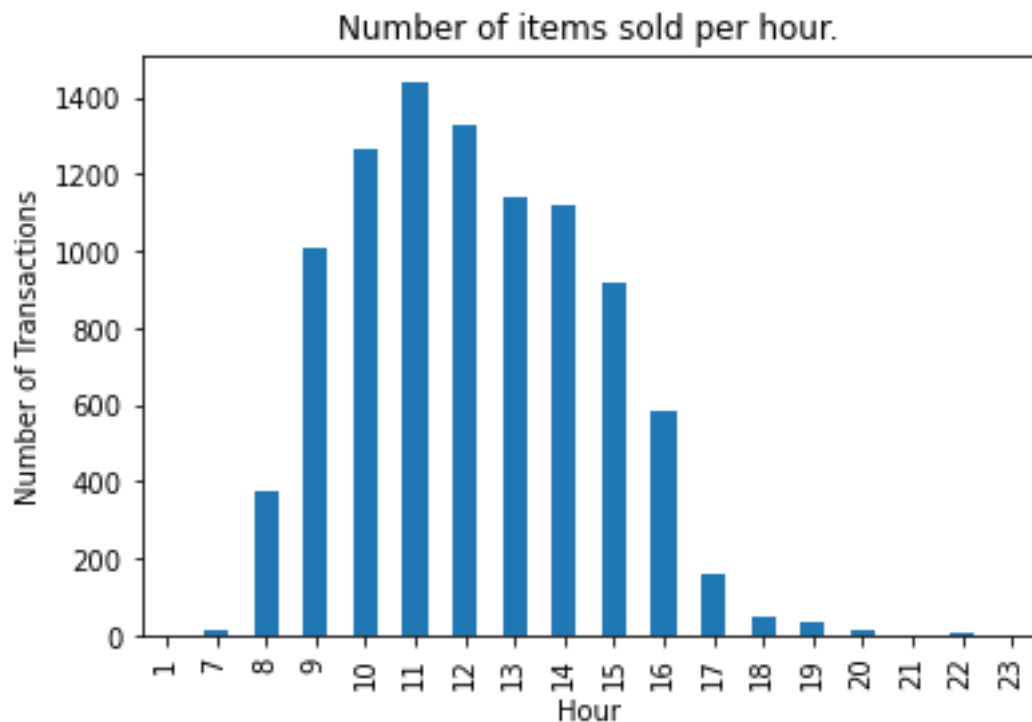**Ans 6:**

The number of items sold per weekday
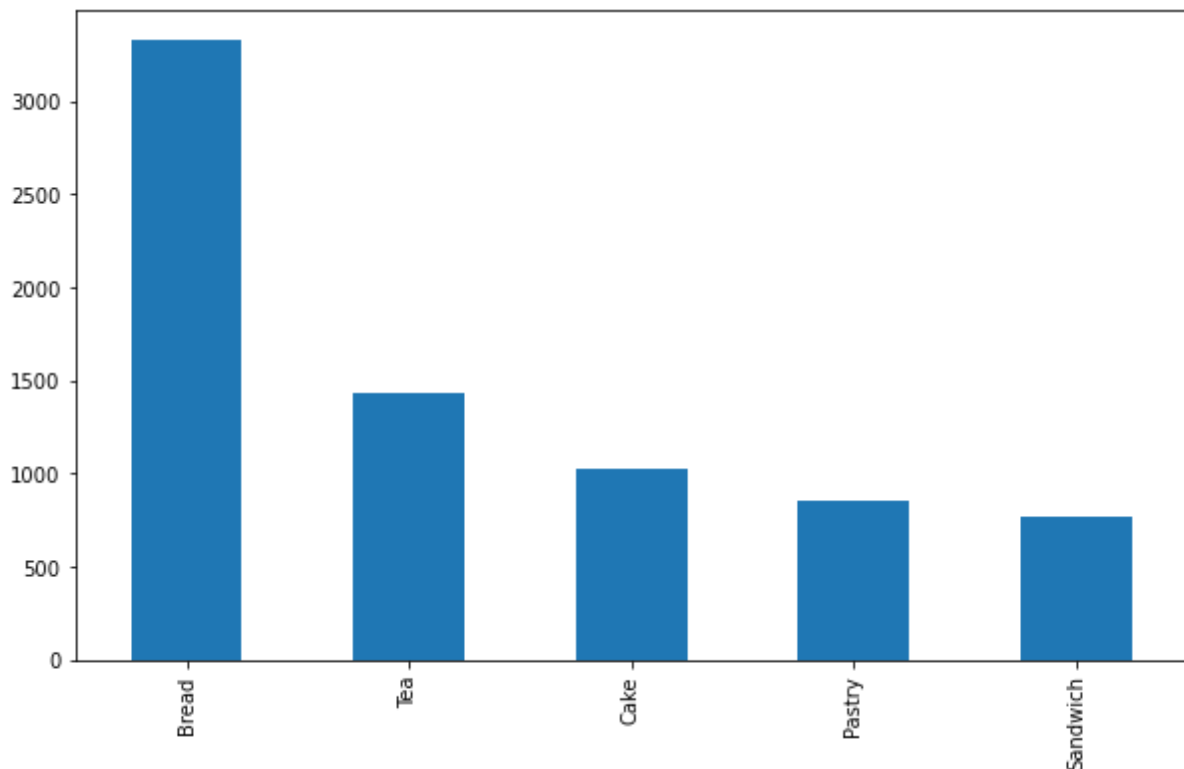
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Ans 7:

The number of transactions per hour

Number of items sold per hour.

Ans 8:

The best item combinations with coffee

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Ans 9:

```
The five most Coffee Sales day in 2017
          2017-04-02    72
          2017-02-26    57
          2017-04-03    57
          2017-01-28    56
          2017-05-02    55
      Name: Date, dtype: int64
```
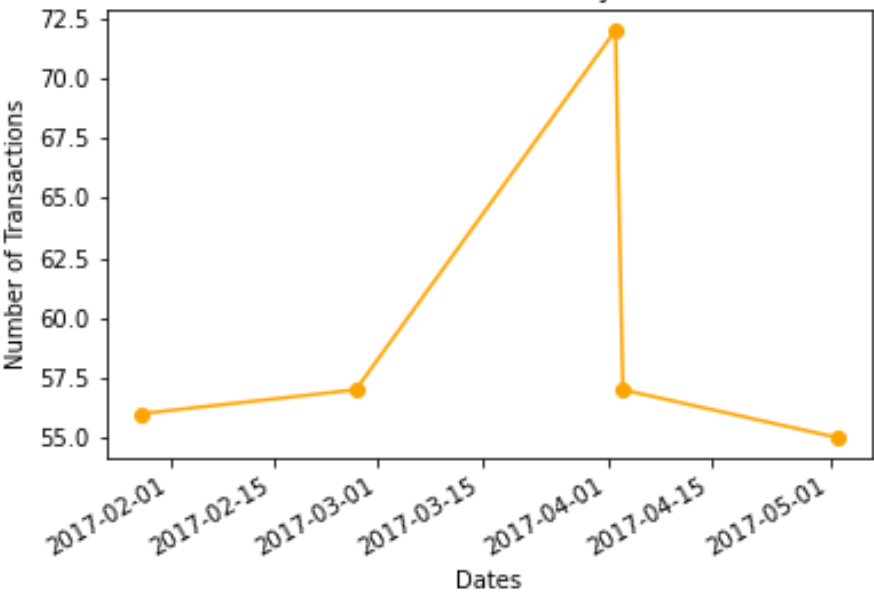

Five most Coffee Sales day in 2017.

Ans 10:

Historical chart of Bread sold throughout the week