

Name – Sagar Soni

Sub – Big data and data analytics-2

Roll no – 180044

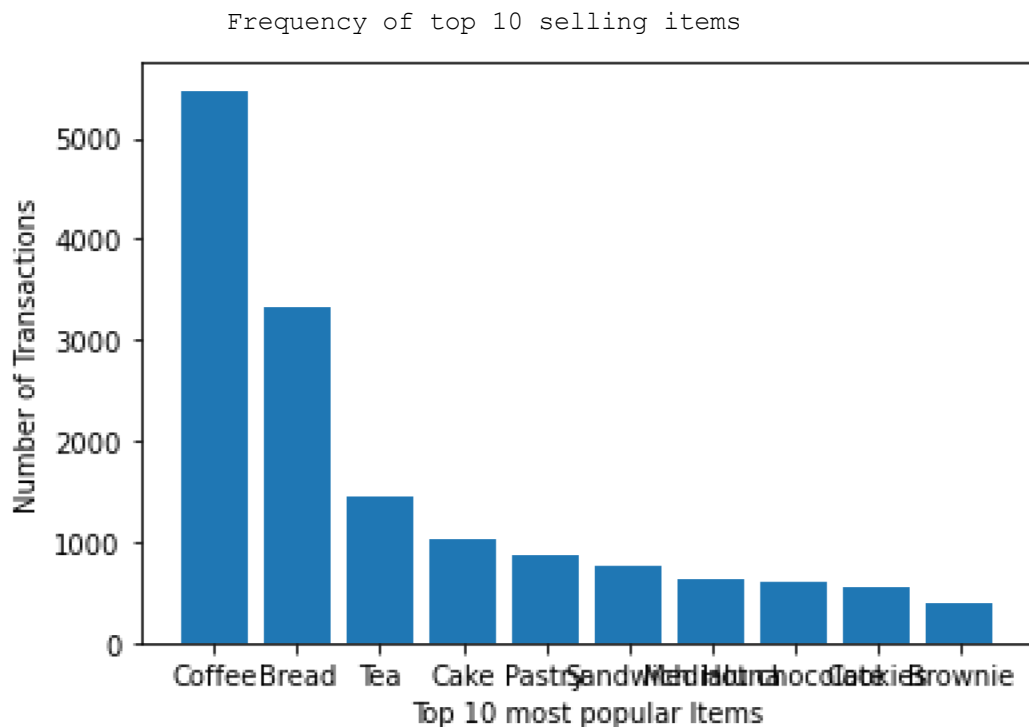
Date – 29th August, 2021

Big data Project Activity 1 (week5)

Section – A

GitHub Link:

Ans 1:

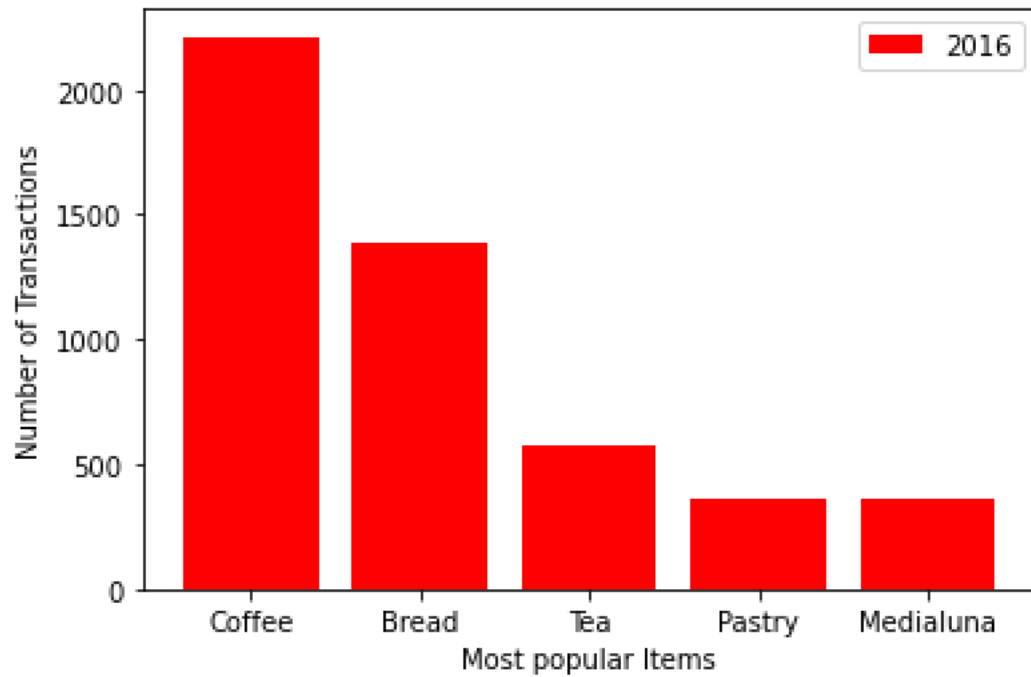


Top 10 most popular items:

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['Coffee', 'Bread', 'Tea', 'Cake', 'Pastry', 'Sandwich', 'Medialuna',  
'Hot chocolate', 'Cookies', 'Brownie']
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Ans 2:

Five most popular bakery items in 2016

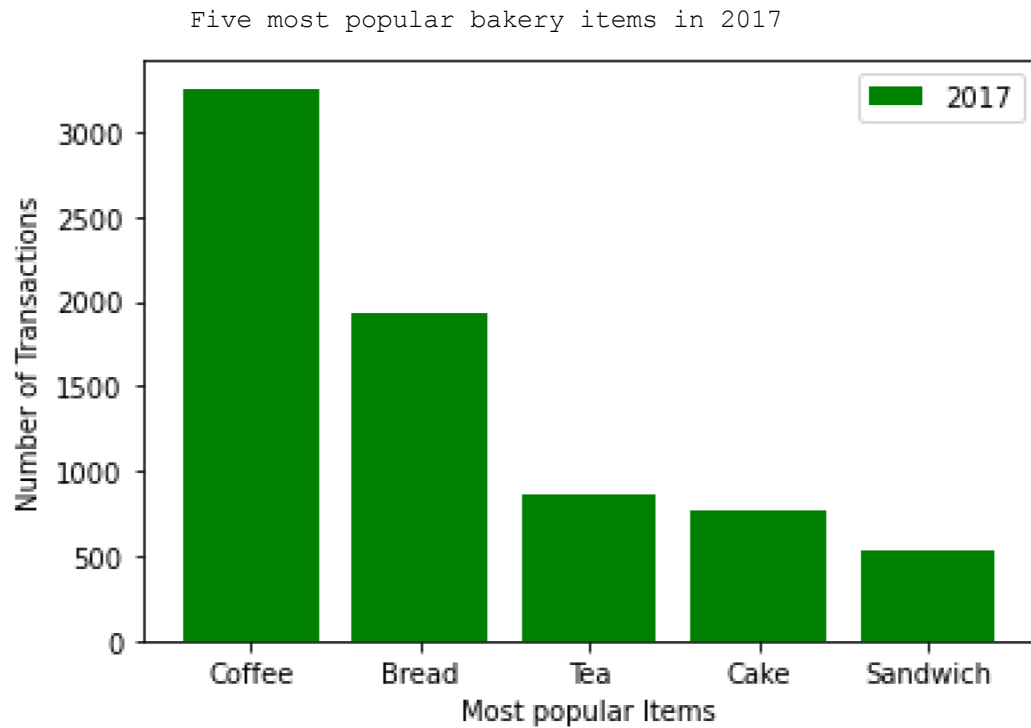


5 most popular items in 2016 is:

	Date	Time	Transaction	Item	Year	Month	\
1	2016-10-30	2020-10-18 09:58:11	1	Bread	2016	10	
2	2016-10-30	2020-10-18 10:05:34	2	Scandinavian	2016	10	
3	2016-10-30	2020-10-18 10:05:34	2	Scandinavian	2016	10	
4	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	
1	30	6	9
2	30	6	10
3	30	6	10
4	30	6	10
5	30	6	10

Ans 3:

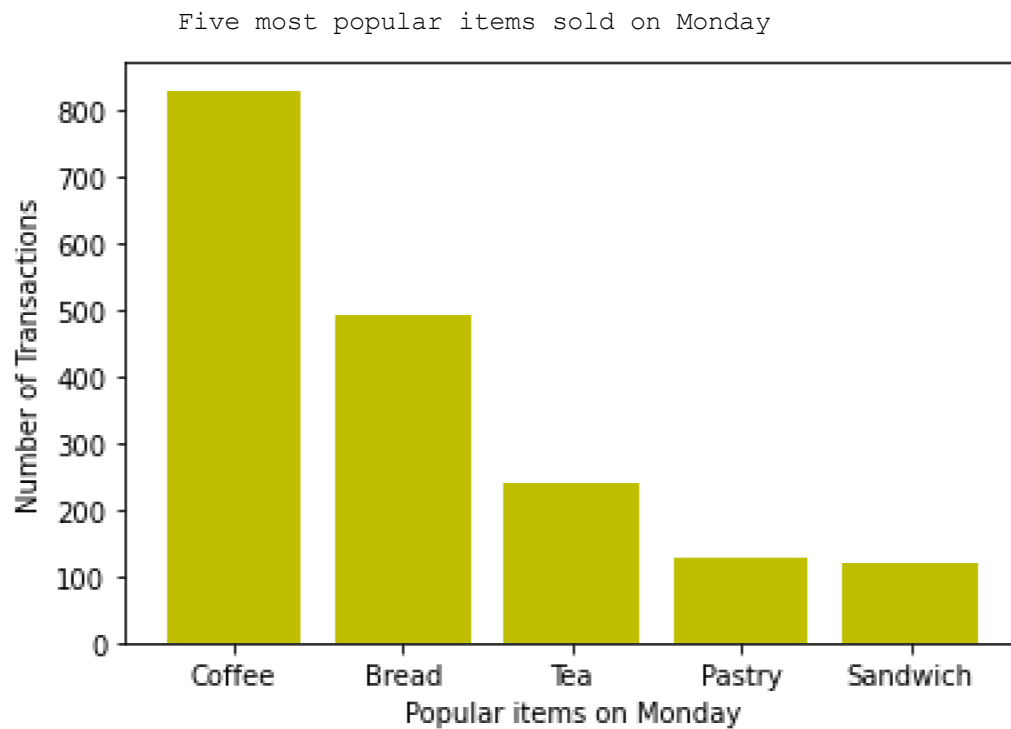


5 most popular items in 2017 is:

	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

Ans 4:



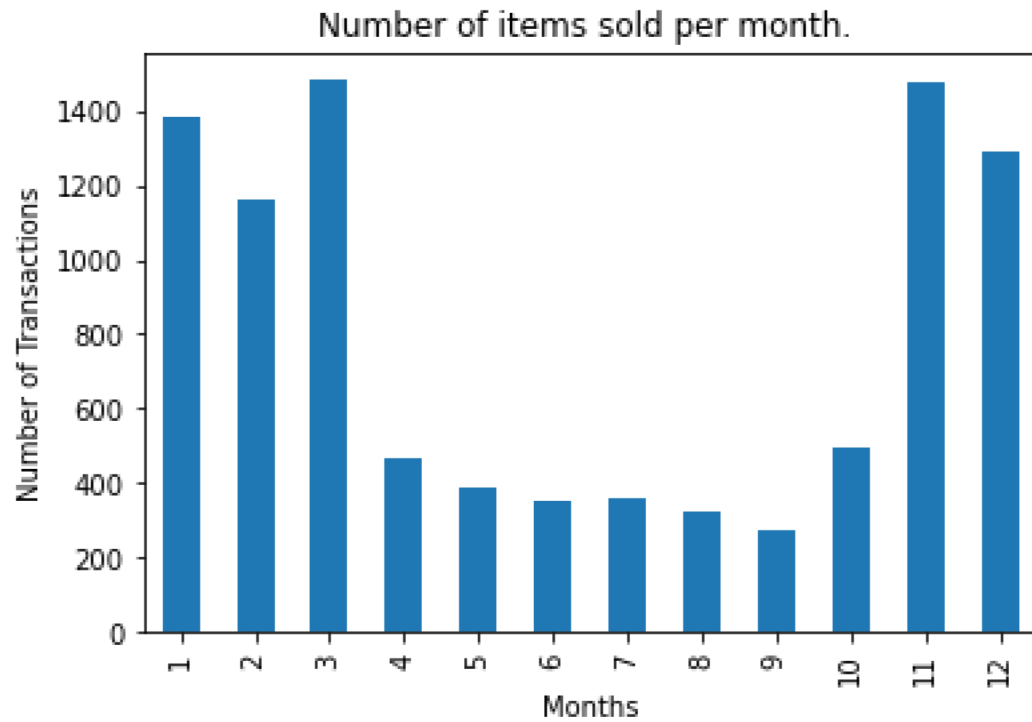
5 most popular items sold on monday is:

	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

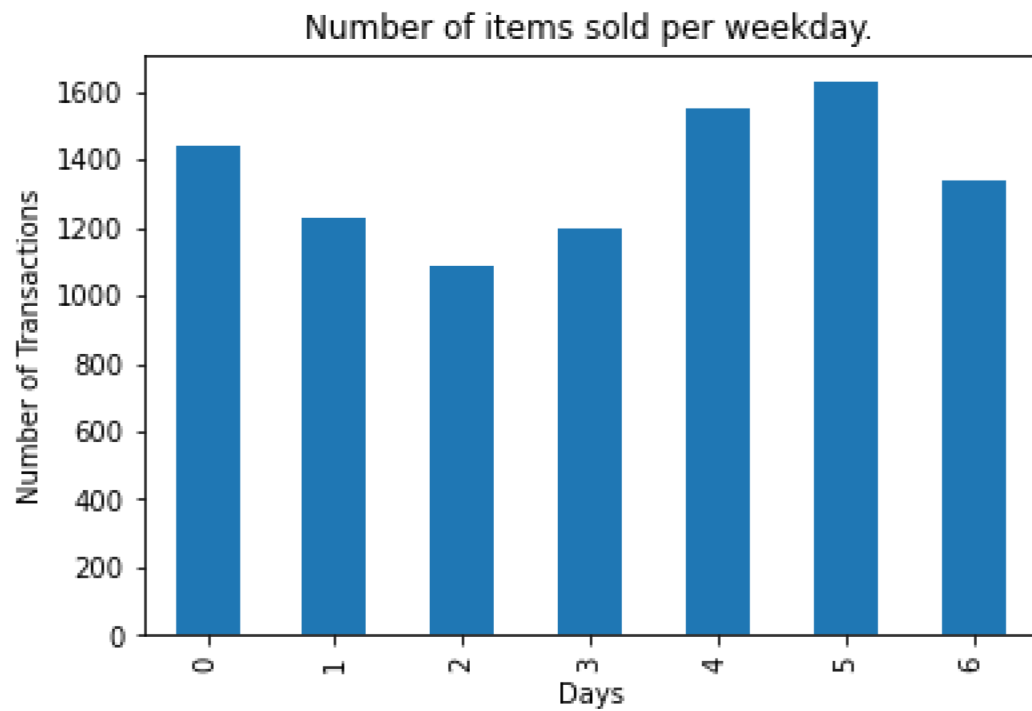
Ans 5:

The number of items sold per month



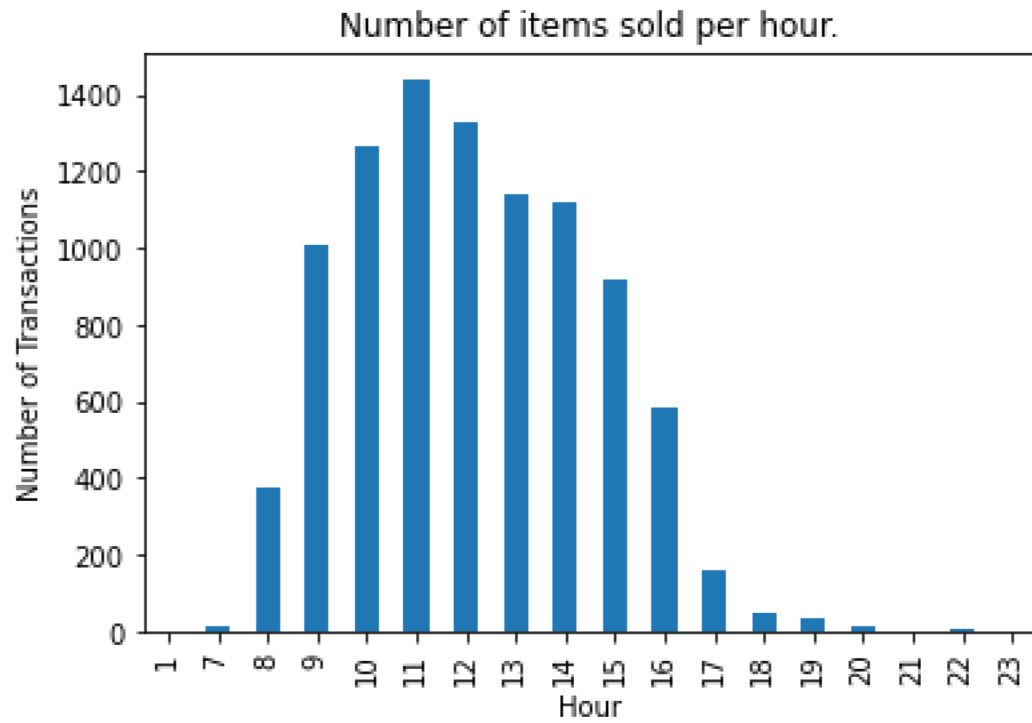
Ans 6:

The number of items sold per weekday



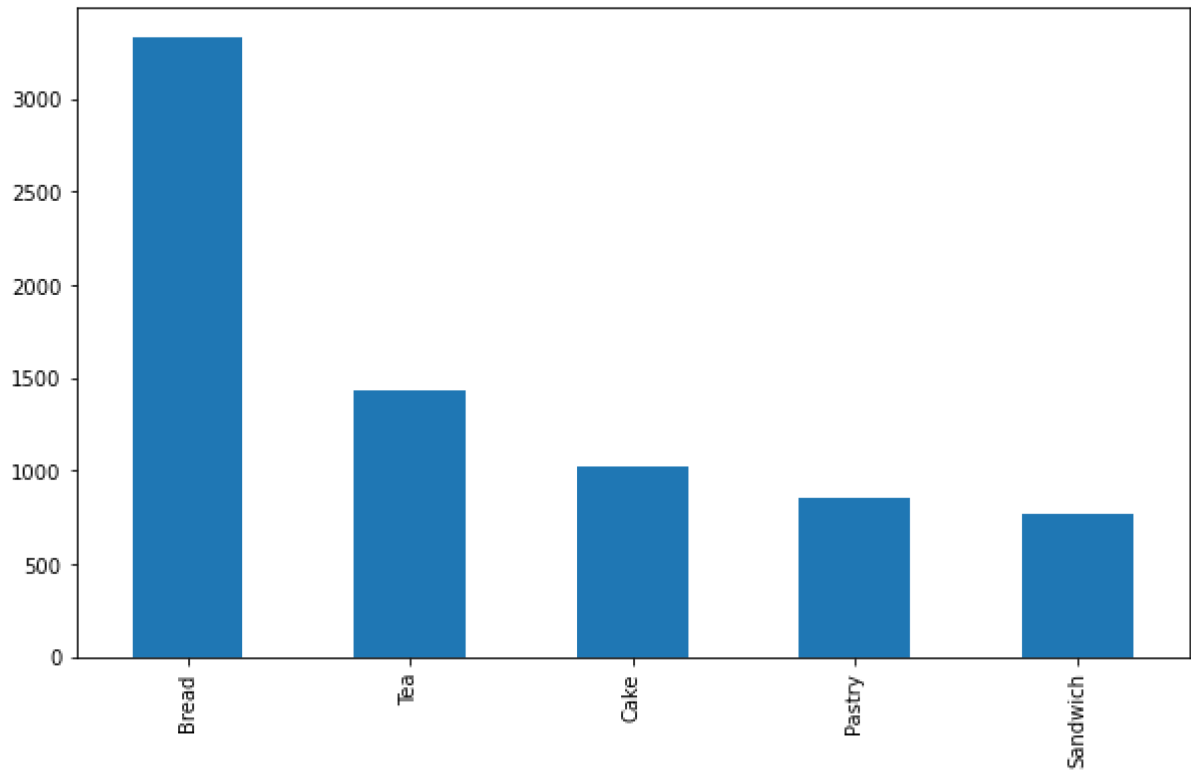
Ans 7:

The number of transactions per hour



Ans 8:

The best item combinations with coffee

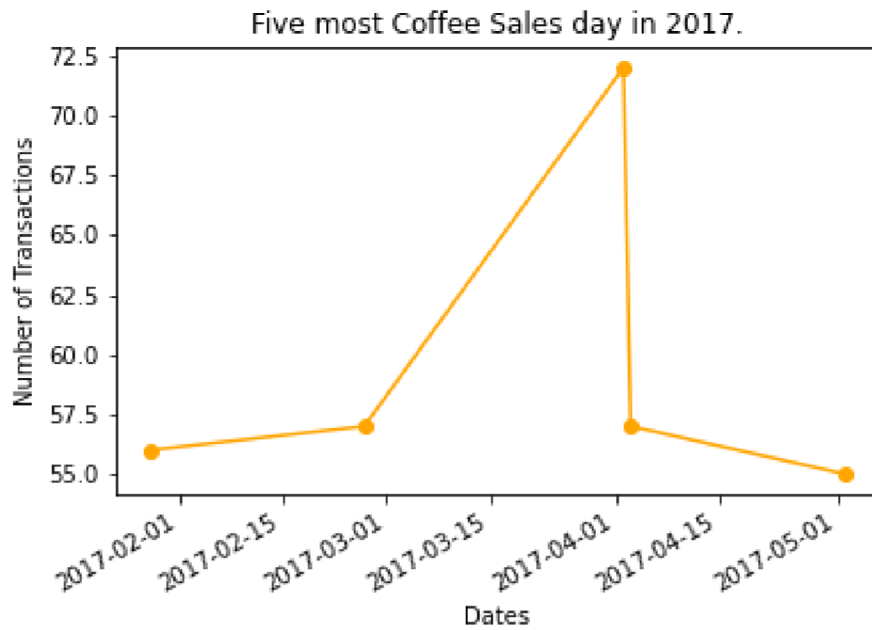


Ans 9:

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



Ans 10:

Historical chart of Bread sold throughout the week

