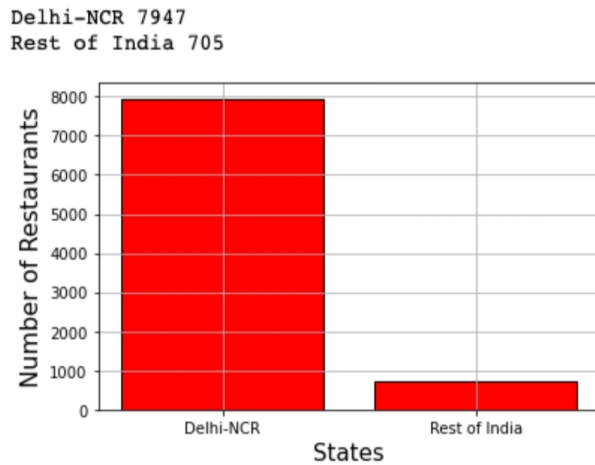


# ZOMATO API PROJECT

## Question 1

### i.) Output-



**Conclusion and Justification** - From the above data and plotting it is clear that the no. of restaurants in Delhi\_NCR is far more than the rest of India as per the data. In Delhi\_NCR it comes out to be 7949 and from rest of India no. of restaurants comes out to be only 705.

### ii.) Output-

```
{'German', 'BBQ', 'Cajun', 'Malwani'}
```

```
-----  
BBQ  
Malwani
```

**Conclusion and Justification** - The above mentioned 4 cuisines which are German, BBQ, Cajun, Malwani are those cuisines which are not present in Delhi NCR but present in rest of India. The bottom 2 cuisines are those which are in Delhi and not in non Delhi as per Zomato Api.



### **iii.) Output -**

Cuisines present in restaurants of Delhi-NCR

-----

North Indian 3597  
Chinese 2448  
Fast Food 1866  
Mughlai 933  
Bakery 697  
South Indian 569  
Continental 547  
Desserts 542  
Street Food 538  
Italian 535

Cuisines present in restaurants of Rest of India Except Delhi-NCR

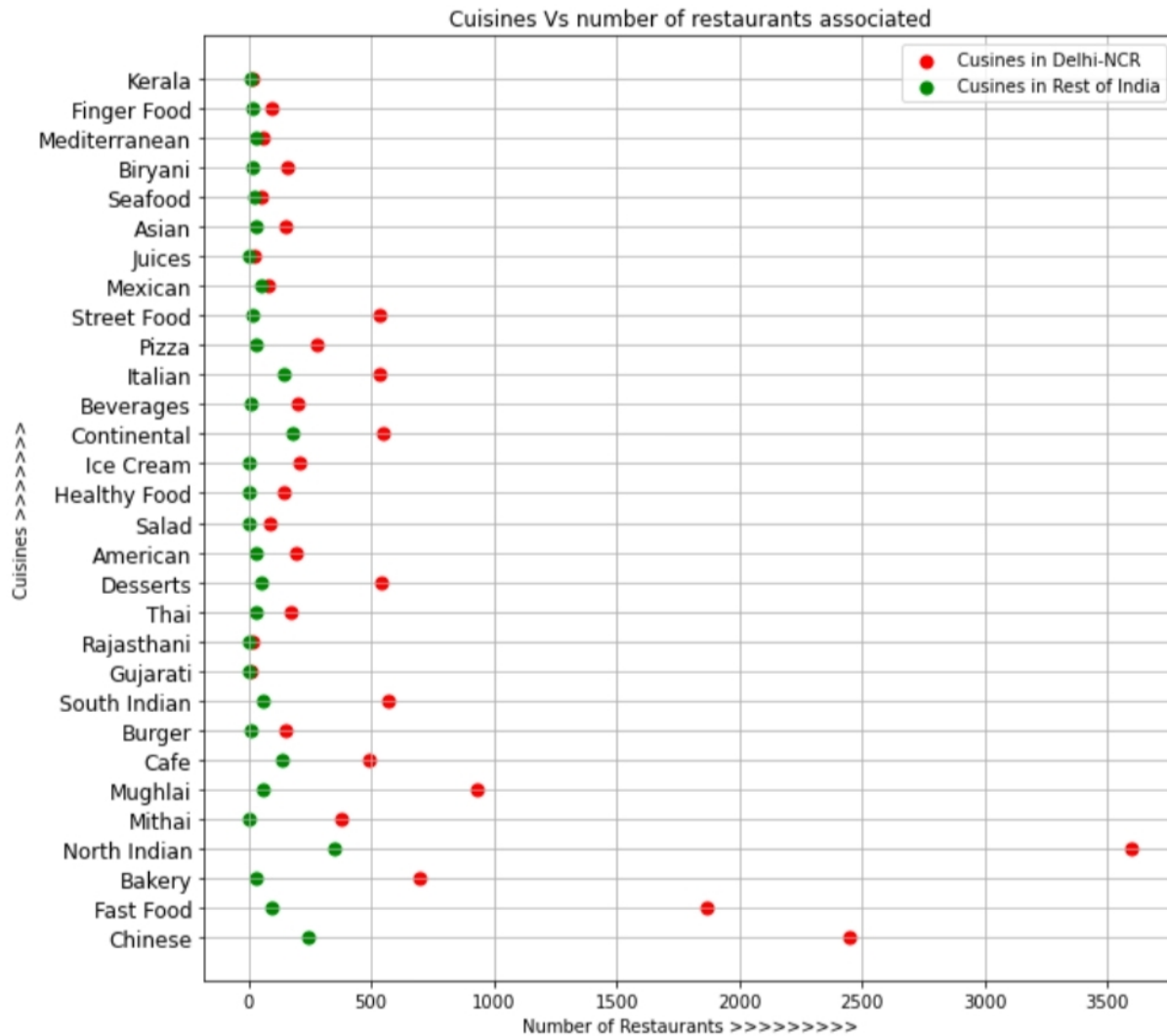
-----

North Indian 349  
Chinese 242  
Continental 177  
Italian 147  
Cafe 136  
Fast Food 97  
South Indian 62  
Mughlai 59  
Desserts 55  
Mexican 50

**Conclusion and Justification -** Below mention two lists are representing the the top 10 cuisines which are served by maximum number of restaurants in Delhi NCR and rest of India respectively.



#### iv.) Output -

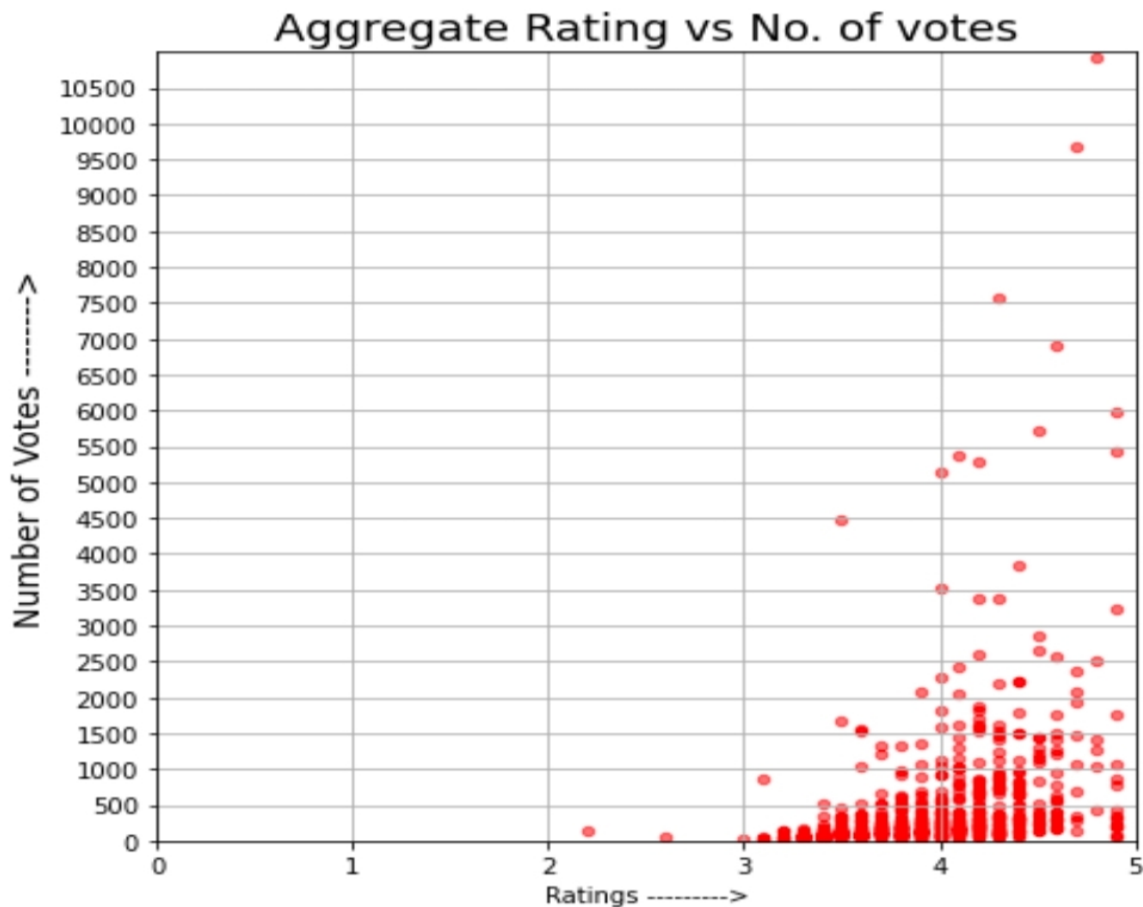


**Conclusion and Justification -** From the above graph we can conclude that "North Indian" is the most popular with more than 3500 restaurants among Delhi-NCR as well as rest of India. Here, I have plotted only those 30 important cuisines which are common in both Delhi-NCR and other states for better analysis. There are some cuisines present in other states and are not present in any restaurant of Delhi-NCR. After North Indian cuisine we have Chinese cuisine with 2448 restaurants in Delhi-NCR and 242 in Rest of India. After these two we have Fast Food with 1866 restaurants in Delhi-NCR and 97 in Rest of India (with a huge difference). After this we have Mughlai cuisine in Delhi-NCR with 933 restaurants and 59 in the Rest of India and there are many more cuisines as shown in the graph as shown.



## Question 2

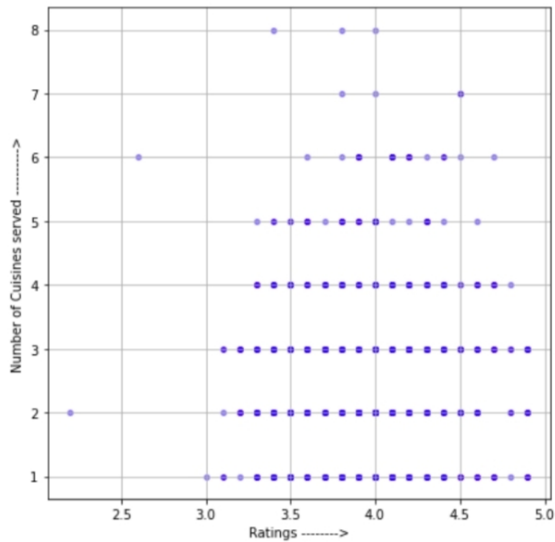
### i.) a) Output -



**Conclusion and Justification -** As the number votes increases the aggregate rating also increases for the restaurant. When the votes are less than 2000 there is a variation in the user ratings from 2 to 5, and when the votes are greater than 5000 there are high chance of getting the rating from 4 to 5. There are also some restaurants between 1000 to 2000 votes which has rating from 4 to 5. Overall the analysis is that as the number votes increases the aggregate rating also increases for the restaurant.



### i.)b) Output-

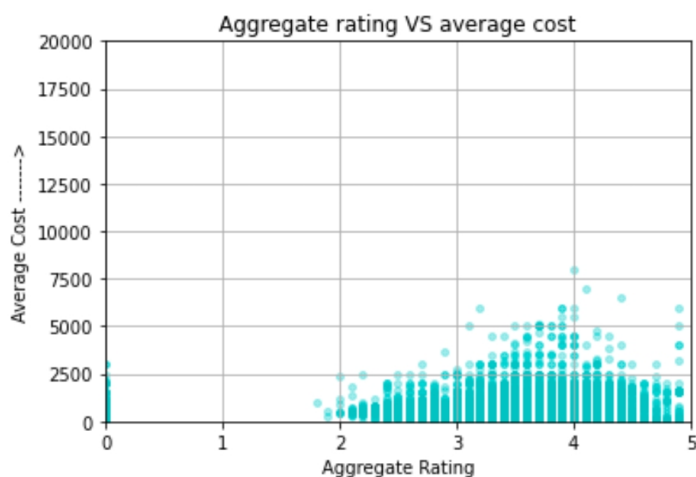
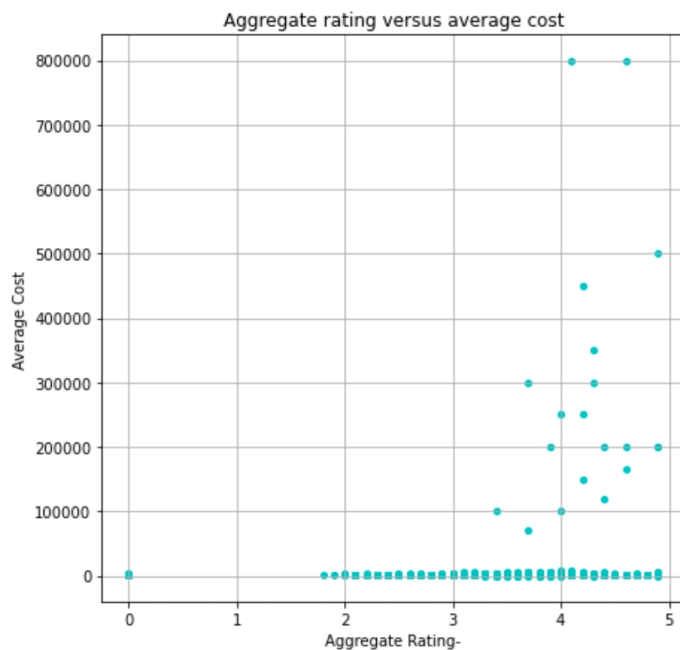


No. of cuisines served : 2 , No. of restaurants serving given number of cuisines : 207  
No. of cuisines served : 1 , No. of restaurants serving given number of cuisines : 158  
No. of cuisines served : 3 , No. of restaurants serving given number of cuisines : 180  
No. of cuisines served : 4 , No. of restaurants serving given number of cuisines : 102  
No. of cuisines served : 5 , No. of restaurants serving given number of cuisines : 31  
No. of cuisines served : 6 , No. of restaurants serving given number of cuisines : 20  
No. of cuisines served : 7 , No. of restaurants serving given number of cuisines : 4  
No. of cuisines served : 8 , No. of restaurants serving given number of cuisines : 3

**Conclusion and Justification** - From the graph it seems that providing more number of cuisines will not give much higher ratings to that particular restaurant. Here we can see that the restaurant providing 8 cuisines is not getting the higher rating where if we can see that the restaurant providing 1 or 2 cuisines is getting the average as well as higher rating too. In India, there are maximum no. of restaurants (207) that provides 2 cuisines and very few restaurants provides the 8 cuisines, seems like when a restaurant provides too many cuisines, its focus on the quality of food offered diverges. While restaurants providing less cuisines focus on the quality of food to get good aggregate user ratings.



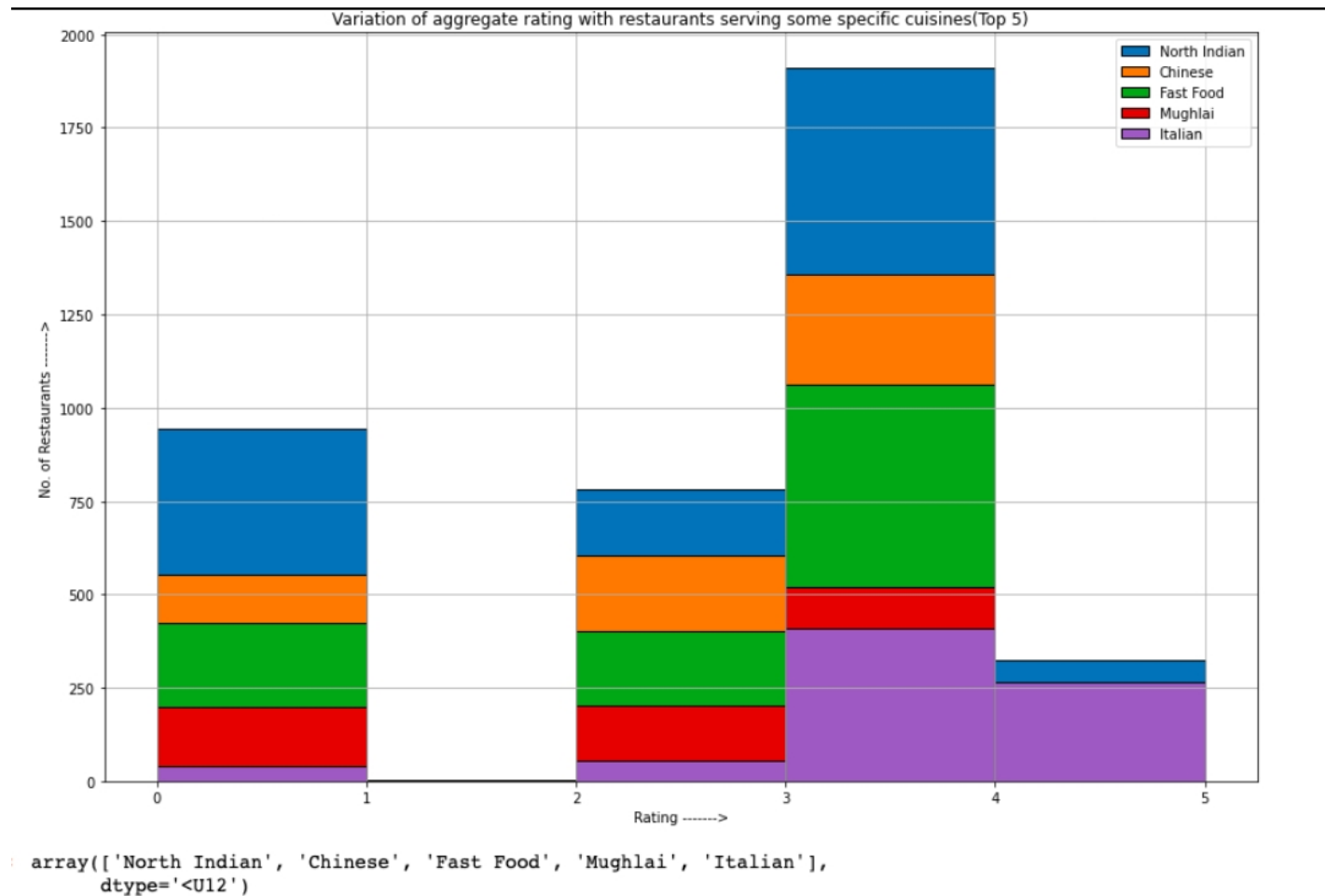
### i.)c) Output-



**Conclusion and Justification** - Here i have plotted the two subplots one with all the values of average cost and second with the average cost upto 20000. In the first subplot it is observed that when the average cost is higher than 1 lakh rating is between 4 and 5. For the second subplot there is a variation in rating when average cost is below the 2000 , rating varies from 2 to 5. And if the average cost is greater than 4000 rating varies from 3 to 5. If the average cost is in between 6000 and 8000 the rating is higher with 4 to 5, it seems like, the user is happy when average cost is between 6000 and 8000 with rating greater than 4.



### i.)d) Output-



**Conclusion and Justification** - From the above histogram plot, it is clear that North indian cuisine is the best rated among all the cuisines in all the aggregate ranges. After it comes the chinese cuisine, it is rated between 3 to 4 maximum number of times. Then we have Fast Food, which has been rated between 3 to 4 stars maximum number of times. after these comes Mughlai and Italian cuisines it seems like people like the Italian cuisine very much because it has a considerable rating between 3 to 4 and 4 to 5 also.



## ii.) Output-

```
Fort Street 4.9
Sofitel Philippine Plaza Manila, Pasay City 4.9
Barwa Towers, Al Sadd 4.9
Caddebostan 4.9
Kenwood 4.9
Cengkareng 4.9
Venetian Village, Al Maqtaa 4.9
Nassima Royal Hotel, Trade Centre Area 4.9
Deira City Centre Area 4.9
Taman Impian Jaya Ancol, Ancol 4.9
Beak Street, Soho 4.9
DIFC 4.9
Old Dutch Hospital, Fort 4.9
Giçvea 4.9
Penjaringan 4.9
Bishopsgate, City Of London 4.9
Bebek 4.9
Pondok Aren 4.9
The Milk District 4.9
```

Top 10 localities with more weighted restaurant rating :

```
-----
Fort Street
Sofitel Philippine Plaza Manila, Pasay City
Barwa Towers, Al Sadd
Caddebostan
Kenwood
Cengkareng
Venetian Village, Al Maqtaa
Nassima Royal Hotel, Trade Centre Area
Deira City Centre Area
Taman Impian Jaya Ancol, Ancol
```

*There are about 30 localities where rating is maximum and equal to 4.9*

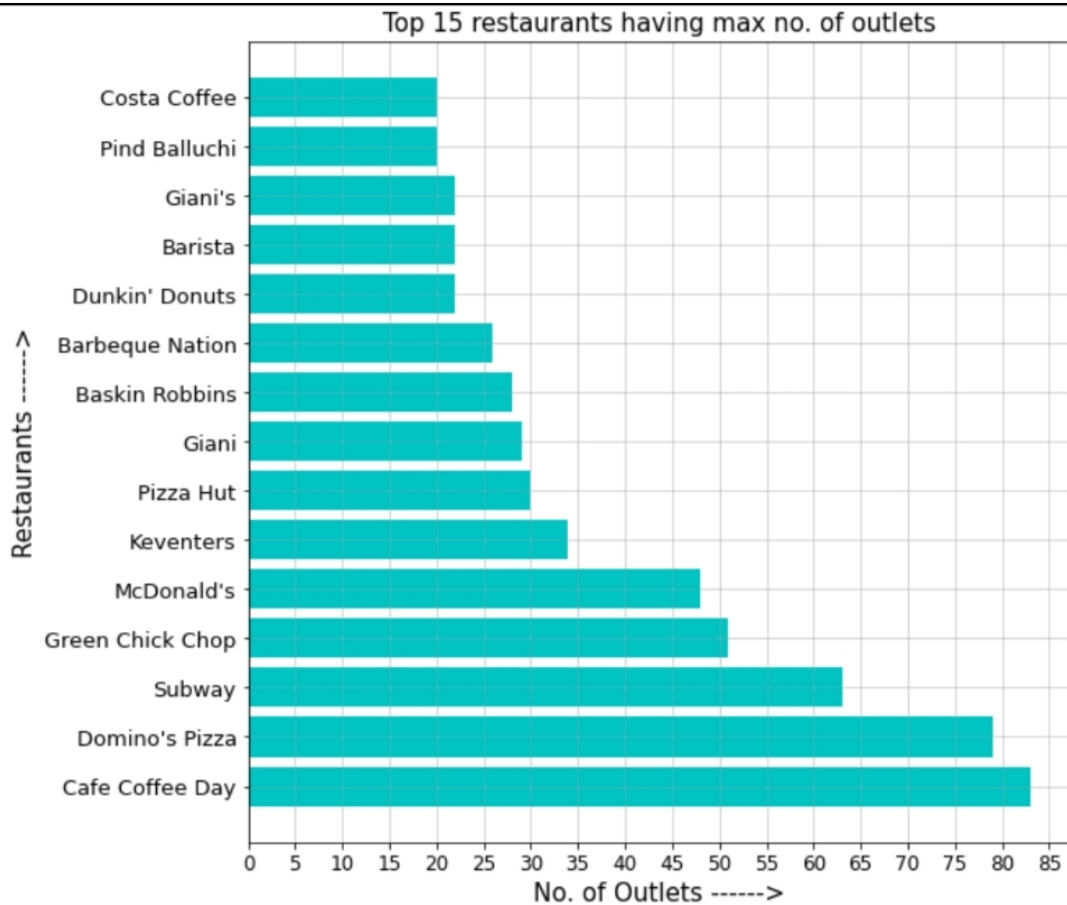
*So among all those 30 these are 10 such localities.*





### Question 3

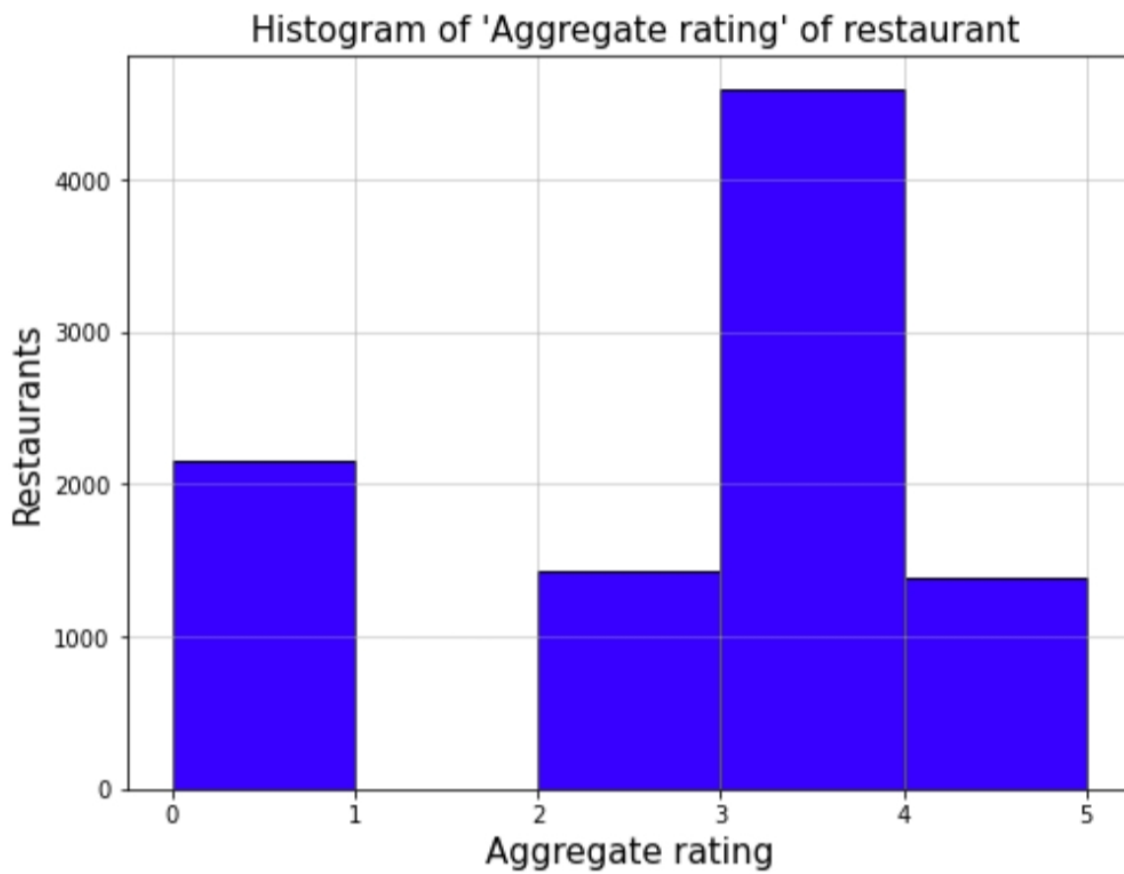
#### i.) Output-



**Conclusion and Justification-** Above mentioned data represents the top 15 restaurants which have maximum number of outlets. Cafe Coffee Day has maximum among all those and about 83 in numbers.



## ii.) Output-

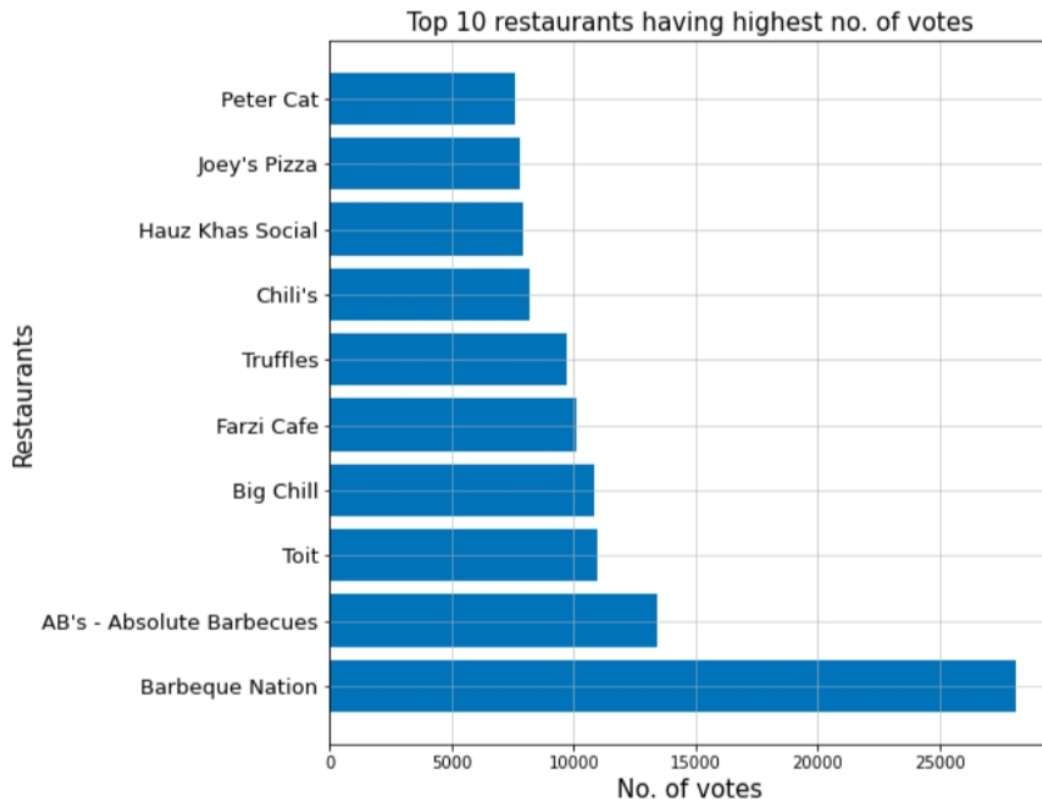


**Conclusion and Justification-** This graph represents the aggregated rating of restaurants, which shows that there are more restaurants which get ratings in between 3 to 4.



### iii.) Output-

Barbeque Nation 28142  
AB's - Absolute Barbecues 13400  
Toit 10934  
Big Chill 10853  
Farzi Cafe 10098  
Truffles 9682  
Chili's 8156  
Hauz Khas Social 7931  
Joey's Pizza 7807  
Peter Cat 7574

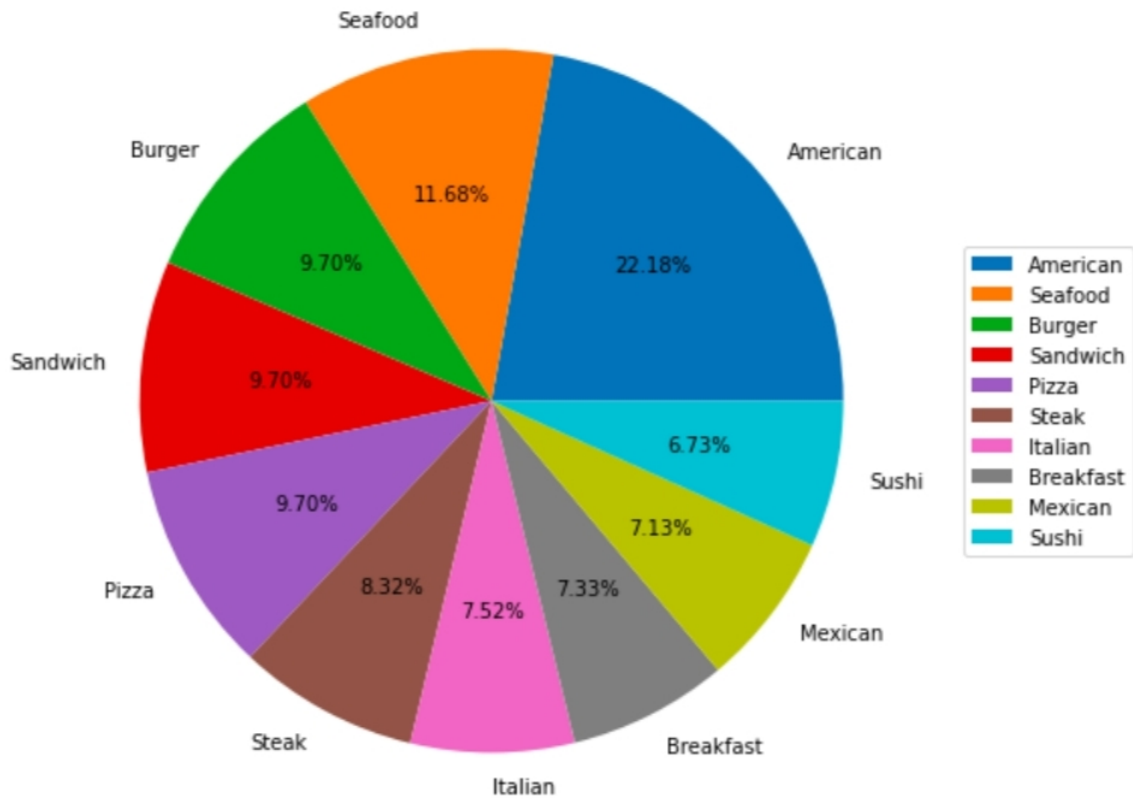


**Conclusion and Justification-** Above bar graph plots the top 10 restaurants from the data which have highest number of votes. And it is clear the Barbeque nation has highest votes among all.



#### iv.) Output-

---



**Conclusion and Justification-** Above pie chart represents top 10 cuisines present in USA with their respective percentages.



## v.) Output-

