Details of zomato.csv

1. **Restaurant Id**: Unique id of every restaurant across various cities of the world
2. **Restaurant Name**: Name of the restaurant
3. **Country Code**: Country in which restaurant is located
4. **City**: City in which restaurant is located
5. **Address**: Address of the restaurant
6. **Locality**: Location in the city
7. **Locality Verbose**: Detailed description of the locality
8. **Longitude**: Longitude coordinate of the restaurant's location
9. **Latitude**: Latitude coordinate of the restaurant's location
10. **Cuisines**: Cuisines offered by the restaurant
11. **Average Cost for two**: Cost for two people in different currencies
12. **Currency**: Currency of the country
13. **Has Table booking**: yes/no
14. **Has Online delivery**: yes/ no
15. **Is delivering**: yes/ no
16. **Switch to order menu**: yes/no
17. **Price range**: range of price of food
18. **Aggregate Rating**: Average rating out of 5
19. **Rating color**: depending upon the average rating color
20. **Rating text**: text on the basis of rating of rating
21. **Votes**: Number of ratings casted by people

Country Codes :

Country Code	Country
1	India
14	Australia
30	Brazil
37	Canada
94	Indonesia
148	New Zealand
162	Phillipines
166	Qatar
184	Singapore
189	South Africa
191	Sri Lanka
208	Turkey
214	UAE
215	United Kingdom
216	United States

Zomato API-2 Project

Consider only ***Indian*** restaurants in this analysis –

1. The dataset is highly skewed toward the cities included in Delhi-NCR. So, we will summarise all the other cities in **Rest of India** while those in **New Delhi, Ghaziabad, Noida, Gurgaon, Faridabad to Delhi-NCR**. Doing this would make our analysis turn toward Delhi-NCR v Rest of India.
    1. Plot the bar graph of number of restaurants present in Delhi NCR vs Rest of India.
    2. Find the cuisines which are not present in restaurant of Delhi NCR but present in rest of India.
    3. Find the top 10 cuisines served by maximum number of restaurants in Delhi NCR and rest of India.
    4. Write a short-detailed analysis of how cuisine served is different from Delhi NCR to Rest of India. Plot the suitable graph to explain your inference.

2. User Rating of a restaurant plays a crucial role in selecting a restaurant or ordering the food from the restaurant.
    1. Write a short detail analysis of how the rating is affected by restaurant due following features: Plot a suitable graph to explain your inference.
        1. Number of Votes given Restaurant
        2. Restaurant serving more number of cuisines.
        3. Average Cost of Restaurant
        4. Restaurant serving some specific cuisines.
    2. Find the weighted restaurant rating of each locality and find out the top 10 localities with more weighted restaurant rating?

1. Weighted Restaurant Rating=Σ (number of votes * rating) / Σ (number of votes).

3. Visualization
    1. Plot the bar graph top 15 restaurants have a maximum number of outlets.
    2. Plot the histogram of aggregate rating of restaurant (drop the unrated restaurant).
    3. Plot the bar graph top 10 restaurants in the data with the highest number of votes.
    4. Plot the pie graph of top 10 cuisines present in restaurants in the USA.
    5. Plot the bubble graph of a number of Restaurants present in the city of India and keeping the weighted restaurant rating of the city in a bubble.

Your project will be evaluated on following parameters -

ANSWER CORRECTNESS

(Max Score 22)

All the answers should be accurate

PLOTS AND GRAPHS

(Max Score 18)

Addition of appropriate plots and graphs is required

JUSTIFICATION (SUBMITTED SEPARATELY AS PDF)

(Max Score 20)

A document containing justification and explanation of the method used to solve questions.

Answers and Other Details

Your project will be evaluated on following parameters -

- Plots and graphs should have a proper explanation of the inference derived. (Max Score: 80)
- Solution code should have a proper explanation of the method used. (Max Score: 80)
- Each part of question 3 should have an appropriate graph, visualising the findings correctly (2 Marks for each question) (Max Score: 80)
- Each part of question 2.1 should have an appropriate graph, visualising the findings correctly, (2 Marks for each question) (Max Score: 64)

Answers

Correct answer for Question 2.2:

Hotel Clarks Amer- 4.9, Aminabad - 4.9, Friends Colony - 4.89, Powai - 4.84, Kirlampudi Layout - 4.82, Deccan Gymkhana - 4.8, Express Avenue Mall - 4.8, Banjara Hills - 4.72, Sector 5 – 4.71, Riverside Mall - 4.7 (Max Score: 48)

Question 2.1: A good short detail analysis. (Max Score: 16)

Question 1.4: Proper justification and good inferences. (Max Score: 32)

Correct answer for Question 1.3:

- **Delhi NCR** - North Indian, Chinese, Fast Food, Mughlai, Bakery, South Indian, Continental Desserts, Street Food, Italian
- **Rest** – North Indian, Chinese, Continental, Italian, Cafe, Fast Food, South Indian, Mughlai, Desserts, Mexican,

(Max Score: 32)

Correct answer for Question 1.2: BBQ, German, Malwani, Cajun (Max Score: 32)

Correct answer for Question 1.1: Delhi NCR - 7947, **Rest** – 705 (Max Score: 16)