

### **1. Plot the bar graph of number of restaurants present in Delhi NCR vs Rest of India.**

Answer : First we have to filter out all the country whose country-code is not 1. Next I have made one dictionary where I am keeping all the cities which are in Delhi-NCR which will help me to segregate. Next thing I have done I have made one dictionary wherein I kept two keys, first one as Delhi\_NCR and second one as Rest\_of\_India. I have applied one function that is city\_ which is helping me to store the count in the dictionary and at the same time i am using this functions to handle strings in 'city' column. Eventually I will get the desired result in the 'count\_of\_restaurant' dictionary. Finally i traversed the dictionary and stored the key and value in two separate lists , one list has all the names and the other list has the frequency. After that I have plot a bar graph using those two lists and we can see Delhi\_NCR has the ample number of restaurant as compared to Rest\_of\_India.

### **2. Find the cuisines which are not present in restaurant of Delhi NCR but present in rest of India.**

**Check using Zomato API whether this cuisines are actually not served in restaurants of Delhi-NCR or just it due to incomplete dataset.**

Answer : For given dataset I have found four cuisine which are not present in Delhi-NCR restaurants and they are German , Cajun , Malwani , BBQ but after checking with Zomato API I have found that some of them are present in Delhi-NCR restaurants. So the dataset must be having missing data.

**KINDLY USE YOUR OWN API KEY FOR THIS QUESTION**

In this question i have made a separate column 'City\_Cuisines' which combines the data of the 'city' and 'Cuisines' column and i have concatenated these two strings with some special characters so that i can use split() function to extract both data individually from a single column. After that i created two sets and to insert relevant data in them i used the function 'city\_cuisines' on column 'City\_cuisines'. With the help of those two sets i found out what cuisines are not available in delhi, For verification purposes i used the zomato api.

### **3. Find the top 10 cuisines served by maximum number of restaurants in Delhi NCR and rest of India.**

Answer: I created a dictionary named `cuisines_count` where cuisine name is the key and value is the count. By using the function `get_cuisines` i am storing the frequency of every cuisine type in the dictionary. Once dictionary is ready, I have made one list of list and 0th column is for count and 1st column is for the cuisine name/type. I have sorted the list based on the count and then I picked top 10. After plotting graph based on the data from the list, i got following as the top 10

Top ten cuisines that are being served in Delhi-NCR and Rest of India are :

- #1. North Indian
- #2. Chinese
- #3. Fast Food
- #4. Mughlai
- #5. Bakery
- #6. Continental
- #7. Italian
- #8. South Indian
- #9. Cafe
- #10. Desserts

**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.**

Answer : The graph we plotted in this question indicates that North Indian, Chinese Cuisine are served the most in both places, But number of cuisines served/available has a huge difference, North Indian cuisine is served by more than 3500 restaurants in Delhi NCR but this data drops drastically in Rest of India, and that is only 350 restaurants or so and same goes for Chinese cuisine. Third most served cuisine in Delhi NCR is Fast Food where as for Rest of India is Continental and there is some order difference in terms of cuisines served/available also. There are total 86 different cuisines that are offered in Delhi-NCR where as in Rest India offers 70 different cuisines.