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Task 2

Task: Cuisine Combination

Identify the most common combinations of cuisines in the dataset.

```
In [1]: # import library
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sb

In [2]: df=pd.read_csv("C:\\Users\\abhis\\Downloads\\Dataset .csv")
df
```

Out[2]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose
0	6317637	Le Petit Souffle	162	Makati City	Third Floor, Century City Mall, Kalayaan Avenu	Century City Mall, Poblacion, Makati City	Century City Mall, Poblacion Makati City Mak
1	6304287	Izakaya Kikufuji	162	Makati City	Little Tokyo, 2277 Chino Roces Avenue, Legaspi	Little Tokyo, Legaspi Village, Makati City	Little Tokyo Legaspi Village Makati City Ma.
2	6300002	Heat - Edsa Shangri-La	162	Mandaluyong City	Edsa Shangri-La, 1 Garden Way, Ortigas, Mandal	Edsa Shangri- La, Ortigas, Mandaluyong City	Edsa Shangri-La Ortigas Mandaluyonç City, Ma
3	6318506	Ooma	162	Mandaluyong City	Third Floor, Mega Fashion Hall, SM Megamall, O	SM Megamall, Ortigas, Mandaluyong City	SM Megamall Ortigas Mandaluyong City, Mandal.
4	6314302	Sambo Kojin	162	Mandaluyong City	Third Floor, Mega Atrium, SM Megamall, Ortigas	SM Megamall, Ortigas, Mandaluyong City	SM Megamall Ortigas Mandaluyonç City, Mandal
•••							••
9546	5915730	Namll Gurme	208	� � stanbul	Kemanke�� Karamustafa Pa��a Mahallesi, Rìhtìm	Karak ∳ _y	Karak ∲ _y ��stanbu
9547	5908749	Ceviz A��acl	208	♦ ♦ stanbul	Ko��uyolu Mahallesi, Muhittin ��st�_nda�� Cadd	Ko��uyolu	Ko��uyolu ��stanbu
9548	5915807	Huqqa	208	♦ ♦ stanbul	Kuru�_e��me Mahallesi, Muallim Naci Caddesi, N	Kuru�_e��me	Kuru�_e��me ��stanbu
9549	5916112	A���k Kahve	208	� � stanbul	Kuru�_e��me Mahallesi, Muallim Naci Caddesi, N	Kuru�_e��me	Kuru�_e��me ��stanbu
9550	5927402	Walter's Coffee Roastery	208	� � stanbul	Cafea��a Mahallesi, Bademaltl Sokak, No 21/B, 	Moda	Moda ��stanbu

9551 rows × 21 columns

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```
In [4]:
        df.isnull().sum()
                                 0
        Restaurant ID
Out[4]:
                                 0
        Restaurant Name
                                 0
        Country Code
        City
                                 0
        Address
                                 0
        Locality
                                 0
        Locality Verbose
        Longitude
                                 0
        Latitude
                                 0
                                 9
        Cuisines
        Average Cost for two
                                 0
        Currency
                                 0
        Has Table booking
                                 0
        Has Online delivery
                                 0
        Is delivering now
                                 0
        Switch to order menu
        Price range
                                 0
        Aggregate rating
                                 0
        Rating color
                                 0
         Rating text
                                 0
                                 0
        Votes
        dtype: int64
In [6]: df.dropna(inplace=True)
In [7]:
```

Out[7]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose
0	6317637	Le Petit Souffle	162	Makati City	Third Floor, Century City Mall, Kalayaan Avenu	Century City Mall, Poblacion, Makati City	Century City Mall, Poblacion Makati City Mak
1	6304287	Izakaya Kikufuji	162	Makati City	Little Tokyo, 2277 Chino Roces Avenue, Legaspi	Little Tokyo, Legaspi Village, Makati City	Little Tokyo Legaspi Village Makati City Ma
2	6300002	Heat - Edsa Shangri-La	162	Mandaluyong City	Edsa Shangri-La, 1 Garden Way, Ortigas, Mandal	Edsa Shangri- La, Ortigas, Mandaluyong City	Edsa Shangri-La Ortigas Mandaluyonç City, Ma
3	6318506	Ooma	162	Mandaluyong City	Third Floor, Mega Fashion Hall, SM Megamall, O	SM Megamall, Ortigas, Mandaluyong City	SM Megamall Ortigas Mandaluyong City, Mandal
4	6314302	Sambo Kojin	162	Mandaluyong City	Third Floor, Mega Atrium, SM Megamall, Ortigas	SM Megamall, Ortigas, Mandaluyong City	SM Megamall Ortigas Mandaluyong City, Mandal
•••	•••	•••		•••			••
9546	5915730	Namll Gurme	208	� � stanbul	Kemanke�� Karamustafa Pa��a Mahallesi, Rìhtìm	Karak ∳ _y	Karak ∳ _y �� stanbu
9547	5908749	Ceviz A��acl	208	�� stanbul	Ko��uyolu Mahallesi, Muhittin ��st�_nda�� Cadd	Ko��uyolu	Ko��uyolu ��stanbu
9548	5915807	Huqqa	208	��stanbul	Kuru�_e��me Mahallesi, Muallim Naci Caddesi, N	Kuru�_e��me	Kuru�_e��me ��stanbu
9549	5916112	A���k Kahve	208	� � stanbul	Kuru�_e��me Mahallesi, Muallim Naci Caddesi, N	Kuru�_e��me	Kuru�_e��me ��stanbu
9550	5927402	Walter's Coffee Roastery	208	� � stanbul	Cafea��a Mahallesi, Bademaltl Sokak, No 21/B, 	Moda	Moda ��stanbu

9542 rows × 21 columns

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```
cui=df['Cuisines']
In [11]:
          cui
                        French, Japanese, Desserts
Out[11]:
                                           Japanese
          2
                  Seafood, Asian, Filipino, Indian
          3
                                   Japanese, Sushi
          4
                                  Japanese, Korean
         9546
                                            Turkish
         9547
                   World Cuisine, Patisserie, Cafe
         9548
                            Italian, World Cuisine
                                   Restaurant Cafe
         9549
         9550
                                               Cafe
         Name: Cuisines, Length: 9542, dtype: object
In [12]: cui.value_counts()
         North Indian
                                                                     936
Out[12]:
         North Indian, Chinese
                                                                     511
         Chinese
                                                                     354
          Fast Food
                                                                     354
         North Indian, Mughlai
                                                                     334
          Bengali, Fast Food
                                                                       1
         North Indian, Rajasthani, Asian
                                                                       1
          Chinese, Thai, Malaysian, Indonesian
                                                                       1
          Bakery, Desserts, North Indian, Bengali, South Indian
                                                                       1
          Italian, World Cuisine
                                                                       1
         Name: Cuisines, Length: 1825, dtype: int64
In [13]: cui.value_counts().head()
         North Indian
                                   936
Out[13]:
         North Indian, Chinese
                                   511
         Chinese
                                   354
                                    354
          Fast Food
         North Indian, Mughlai
                                    334
         Name: Cuisines, dtype: int64
```

Determine if certain cuisine combinations tend to have higher ratings.