

```
In [1]: """LEVEL 1 - TASK 02"""

'''Task: Descriptive Analysis

-->Calculate basic statistical measures (mean,
median, standard deviation, etc.) for numerical
columns.

-->Explore the distribution of categorical
variables like "Country Code","City",and
"Cuisines".

-->Identify the top cuisines and cities with the
highest number of restaurants.'''
```

```
In [ ]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sb
```

```
In [4]: data = pd.read_csv("Dataset.csv")
data.head()
```

Out[4]:

	Restaurant ID	Restaurant Name	Country Code	City	Address	Locality	Locality Verbose	Longitude
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...	121.0275
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...	121.0141
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, Mandaluyong City, Ma...	121.0568
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...	121.0564
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...	121.0575

5 rows × 21 columns



In [5]: data.describe()

Out[5]:	Restaurant ID	Country Code	Longitude	Latitude	Average Cost for two	Price range	Aggregat
<b>count</b>	9.551000e+03	9551.000000	9551.000000	9551.000000	9551.000000	9551.000000	9551.0000
<b>mean</b>	9.051128e+06	18.365616	64.126574	25.854381	1199.210763	1.804837	2.666
<b>std</b>	8.791521e+06	56.750546	41.467058	11.007935	16121.183073	0.905609	1.516
<b>min</b>	5.300000e+01	1.000000	-157.948486	-41.330428	0.000000	1.000000	0.000
<b>25%</b>	3.019625e+05	1.000000	77.081343	28.478713	250.000000	1.000000	2.500
<b>50%</b>	6.004089e+06	1.000000	77.191964	28.570469	400.000000	2.000000	3.200
<b>75%</b>	1.835229e+07	1.000000	77.282006	28.642758	700.000000	2.000000	3.700
<b>max</b>	1.850065e+07	216.000000	174.832089	55.976980	800000.000000	4.000000	4.900

```
In [ ]: #Let X --> country code , Y --> City , Z--> Cuisines
```

```
In [8]: #Explorating distribution of country code
X = data["Country Code"].value_counts()
X
```

```
Out[8]: 1      8652
216     434
215      80
30       60
214      60
189      60
148      40
208      34
14       24
162      22
94       21
184      20
166      20
191      20
37        4
Name: Country Code, dtype: int64
```

```
In [10]: #Explorating distribution of city
Y = data["City"].value_counts()
Y
```

```
Out[10]: New Delhi      5473
Gurgaon      1118
Noida      1080
Faridabad      251
Ghaziabad      25
...
Panchkula      1
Mc Millan      1
Mayfield      1
Macedon      1
Vineland Station 1
Name: City, Length: 141, dtype: int64
```

```
In [11]: #Explorating distribution of cuisines
Z = data["Cuisines"].value_counts()
Z
```

```

Out[11]: North Indian          936
         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 [12]: #Top cuisines with highest number of restaurants
         Z.head(10)

```

```

Out[12]: North Indian          936
         North Indian, Chinese  511
         Chinese               354
         Fast Food             354
         North Indian, Mughlai  334
         Cafe                  299
         Bakery                218
         North Indian, Mughlai, Chinese 197
         Bakery, Desserts      170
         Street Food           149
         Name: Cuisines, dtype: int64

```

```

In [13]: #Top cities with highest number of restaurants
         Y.head(10)

```

```

Out[13]: New Delhi          5473
         Gurgaon            1118
         Noida              1080
         Faridabad          251
         Ghaziabad           25
         Bhubaneswar         21
         Amritsar            21
         Ahmedabad           21
         Lucknow             21
         Guwahati            21
         Name: City, dtype: int64

```

```

In [ ]:

```