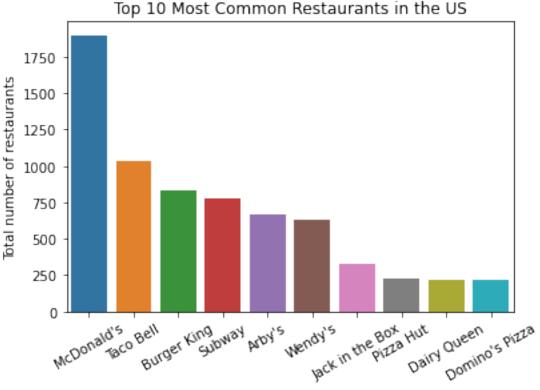
```
import os
import pandas as pd
os.chdir('./My Documents/MIT')
df = pd.read csv('Fast Food Restaurants US.csv')
df.shape
(10000, 11)
df.index
RangeIndex(start=0, stop=10000, step=1)
df.columns
Index(['Unnamed: 0', 'address', 'categories', 'city', 'country',
'latitude',
       'longitude', 'name', 'postalCode', 'province', 'websites'],
      dtype='object')
df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10000 entries, 0 to 9999
Data columns (total 11 columns):
                 Non-Null Count Dtype
#
     Column
                 _____
- - -
     -----
 0
     Unnamed: 0 10000 non-null int64
 1
     address
                 10000 non-null
                                 object
 2
     categories 10000 non-null
                                 obiect
 3
                 10000 non-null
     city
                                 object
 4
                 10000 non-null
                                 obiect
     country
    latitude
 5
                10000 non-null float64
 6
    longitude
                10000 non-null float64
 7
     name
                 10000 non-null
                                 obiect
 8
     postalCode 10000 non-null
                                 object
 9
     province
                 10000 non-null
                                 object
 10 websites
                10000 non-null
                                 object
dtypes: float64(2), int64(1), object(8)
memory usage: 859.5+ KB
df.head()
   Unnamed: 0
                            address \
0
           0
                   800 N Canal Blvd
1
           1
                   800 N Canal Blvd
2
            2
                206 Wears Valley Rd
3
                       3652 Parkway
4
              2118 Mt Zion Parkway
                                                         city country
                                     categories
\
```

```
American Restaurant and Fast Food Restaurant
                                                     Thibodaux
                                                                    US
1
                          Fast Food Restaurants
                                                     Thibodaux
                                                                    US
2
                           Fast Food Restaurant
                                                  Pigeon Forge
                                                                    US
3
                                       Fast Food
                                                  Pigeon Forge
                                                                    US
4
                           Fast Food Restaurant
                                                        Morrow
                                                                    US
                                    name postalCode province
    latitude longitude
   29.814697 -90.814742
                         SONIC Drive In
                                              70301
                                                          LA
1
   29.814697 -90.814742
                         SONIC Drive In
                                              70301
                                                          LA
  35.803788 -83.580553
                              Taco Bell
                                              37863
                                                          TN
  35.782339 -83.551408
                                 Arby's
                                              37863
                                                          TN
  33.562738 -84.321143
                         Steak 'n Shake
                                              30260
                                                          GA
                                             websites
  https://locations.sonicdrivein.com/la/thibodau...
   https://locations.sonicdrivein.com/la/thibodau...
  http://www.tacobell.com,https://locations.taco...
   http://www.arbys.com,https://locations.arbys.c...
3
  http://www.steaknshake.com/locations/23851-ste...
data2 = df.groupby('name')['name'].count()
top10restaurants = data2.sort values(ascending=False).head(10)
top10restaurants
name
McDonald's
                   1898
Taco Bell
                   1032
                    833
Burger King
Subway
                    776
Arby's
                    663
Wendy's
                    628
Jack in the Box
                    330
Pizza Hut
                    230
Dairy Queen
                    218
Domino's Pizza
                    215
Name: name, dtype: int64
import matplotlib.pyplot as plt
import seaborn as sns
g = sns.barplot(y=top10restaurants.values, x=top10restaurants.index)
g.set_xticklabels(labels=top10restaurants.index, rotation=30)
q.set(title='Top 10 Most Common Restaurants in the US', ylabel="Total
number of restaurants", xlabel="")
plt.show()
```



data3 = df.groupby('city')['city'].count() top10cities = data3.sort values(ascending=False).head(10) top10cities city 107 Houston Las Vegas 82 Phoenix 78 Columbus 72 Dallas 66 **Orlando** 65 Los Angeles 64 Miami 62 Chicago 57 San Antonio 54 Name: city, dtype: int64 g2 = sns.barplot(y=top10cities.values, x=top10cities.index) g2.set xticklabels(labels=top10cities.index, rotation=30) g2.set(title='Top 10 Cities for Fast Food Accessibility', ylabel='Total number of restaurants', xlabel='') plt.show()

