Alcohol Dataset

Special thanks to: https://github.com/justmarkham for sharing the dataset and materials.

Step 1. Import the necessary libraries

In [44]:
```
import pandas as pd
import numpy as np
pip
```

Step 2. Import the dataset from this address.

In [4]:
```
df = pd.read_csv('../../DSML17_ASSIGNMENT/pandas/drinks.csv')
```

Step 3. Assign it to a variable called drinks.

In [5]:
```
drinks = df
drinks.head()
```

Out[5]:

	country	beer_servings	spirit_servings	wine_servings	total_litres_of_pure_alcohol	continent
0	Afghanistan	0	0	0	0.0	AS
1	Albania	89	132	54	4.9	EU
2	Algeria	25	0	14	0.7	AF
3	Andorra	245	138	312	12.4	EU
4	Angola	217	57	45	5.9	AF

Step 4. Which continent drinks more beer on average?

In [40]:
```
# Which continent drinks more beer on average?
avg = drinks['beer_servings'].mean()
avg2 = drinks[['continent','beer_servings']].groupby('continent').mean()
avg2[avg2['beer_servings']>avg]
```

Out[40]:

continent	beer_servings
EU	193.777778
SA	175.083333

Step 5. For each continent print the statistics for wine consumption.

In [19]:
```
drinks[['continent','wine_servings']].groupby('continent').mean()
```

Out[19]:

continent	wine_servings
AF	16.264151
AS	9.068182
EU	142.222222
OC	35.625000
SA	62.416667

Step 6. Print the mean alcohol consumption per continent for every column

In [7]:
```
con = drinks.groupby('continent')
con.mean()
```

Out[7]:

continent	beer_servings	spirit_servings	wine_servings	total_litres_of_pure_alcohol
AF	61.471698	16.339623	16.264151	3.007547
AS	37.045455	60.840909	9.068182	2.170455
EU	193.777778	132.555556	142.222222	8.617778
OC	89.687500	58.437500	35.625000	3.381250
SA	175.083333	114.750000	62.416667	6.308333

Step 7. Print the median alcohol consumption per continent for every column

In [8]:
```
# Print the median alcohol consumption per continent for every column
con.median()
```

Out[8]:

continent	beer_servings	spirit_servings	wine_servings	total_litres_of_pure_alcohol
AF	32.0	3.0	2.0	2.30
AS	17.5	16.0	1.0	1.20
EU	219.0	122.0	128.0	10.00
OC	52.5	37.0	8.5	1.75
SA	162.5	108.5	12.0	6.85

Step 8. Find out (list) the names of countries which shows no cosumption of any kind of drink

In [11]:
```
name_of_contrys = drinks[drinks['total_litres_of_pure_alcohol']==0]
list(name_of_contrys['country'])
```

Out[11]:
```
['Afghanistan',
 'Bangladesh',
 'North Korea',
 'Iran',
 'Kuwait',
 'Libya',
 'Maldives',
 'Marshall Islands',
 'Mauritania',
 'Monaco',
 'Pakistan',
 'San Marino',
 'Somalia']
```

Step 9. Find out (list) the names of countries which has more wine_servings than beer_servings from Europe

In [12]:
```
eu = drinks[drinks['continent']=='EU']
c = eu[eu['wine_servings']>eu['beer_servings']]
list(c['country'])
```

Out[12]:
```
['Andorra',
 'Croatia',
 'Denmark',
 'France',
 'Georgia',
 'Greece',
 'Italy',
 'Luxembourg',
 'Montenegro',
 'Portugal',
 'Slovenia',
 'Sweden',
 'Switzerland']
```

Step 10. Find out (list) the names of countries from Asia which has more beer consumption than avg beer_consumption of Europe

In [16]:
```
# Find out (list) the names of countries from Asia which has more beer consumption than avg beer_consumption of Europe
eu = drinks[drinks['continent']=='EU']

avg = eu['beer_servings'].mean()
ans = eu[eu['beer_servings']>avg]
list(ans['country'])
```

Out[16]:
```
['Andorra',
 'Austria',
 'Belgium',
 'Bulgaria',
 'Croatia',
 'Czech Republic',
 'Denmark',
 'Estonia',
 'Finland',
 'Germany',
 'Hungary',
 'Iceland',
 'Ireland',
 'Latvia',
 'Lithuania',
 'Luxembourg',
 'Netherlands',
 'Poland',
 'Portugal',
 'Romania',
 'Serbia',
 'Slovakia',
 'Slovenia',
 'Spain',
 'Ukraine',
 'United Kingdom']
```

In [ ]:

In [ ]: