Question Set

File name: drinks.csv

Q1. Which continent drinks more beer on average(beer\_servings)?

Ex Ans:

continent

AF 61.471698

AS 37.045455

EU 193.777778

OC 89.687500

SA 175.083333

Name: beer\_servings, dtype: float64

Q2. Print the mean alcohol consumption per continent for every column.

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |

Q3. For each continent print the statistics for wine consumption.

Ex Ans:

continent

AF count 53.000000

mean 16.264151

std 38.846419

min 0.000000

25% 1.000000

50% 2.000000

75% 13.000000

max 233.000000

AS count 44.000000

mean 9.068182

std 21.667034

min 0.000000

25% 0.000000

50% 1.000000

75% 8.000000

max 123.000000

EU count 45.000000

mean 142.222222

std 97.421738

min 0.000000

25% 59.000000

50% 128.000000

75% 195.000000

max 370.000000

OC count 16.000000

mean 35.625000

std 64.555790

min 0.000000

25% 1.000000

50% 8.500000

75% 23.250000

max 212.000000

SA count 12.000000

mean 62.416667

std 88.620189

min 1.000000

25% 3.000000

50% 12.000000

75% 98.500000

max 221.000000

dtype: float64

Q4 .Print the median alcohol consumption per continent for every column

|  | **beer\_servings** | **spirit\_servings** | **wine\_servings** | **total\_litres\_of\_pure\_alcohol** |
| --- | --- | --- | --- | --- |
| **continent** |  |  |  |  |
| **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 |

Q5. Print the mean, min and max values for spirit\_servings.

| Ex Ans: | **mean** | **min** | **max** |
| --- | --- | --- | --- |
| **continent** |  |  |  |
| **AF** | 16.339623 | 0 | 152 |
| **AS** | 60.840909 | 0 | 326 |
| **EU** | 132.555556 | 0 | 373 |
| **OC** | 58.437500 | 0 | 254 |
| **SA** | 114.750000 | 25 | 302 |

File name: User.txt

Q6. Discover what is the mean age per occupation.

Ans:

occupation

administrator 38.746835

artist 31.392857

doctor 43.571429

educator 42.010526

engineer 36.388060

entertainment 29.222222

executive 38.718750

healthcare 41.562500

homemaker 32.571429

lawyer 36.750000

librarian 40.000000

marketing 37.615385

none 26.555556

other 34.523810

programmer 33.121212

retired 63.071429

salesman 35.666667

scientist 35.548387

student 22.081633

technician 33.148148

writer 36.311111

Name: age, dtype: float64

Q7. For each occupation, calculate the minimum and maximum ages

| Ans: | **min** | **max** |
| --- | --- | --- |
| **occupation** |  |  |
| **administrator** | 21 | 70 |
| **artist** | 19 | 48 |
| **doctor** | 28 | 64 |
| **educator** | 23 | 63 |
| **engineer** | 22 | 70 |
| **entertainment** | 15 | 50 |
| **executive** | 22 | 69 |
| **healthcare** | 22 | 62 |
| **homemaker** | 20 | 50 |
| **lawyer** | 21 | 53 |
| **librarian** | 23 | 69 |
| **marketing** | 24 | 55 |
| **none** | 11 | 55 |
| **other** | 13 | 64 |
| **programmer** | 20 | 63 |
| **retired** | 51 | 73 |
| **salesman** | 18 | 66 |
| **scientist** | 23 | 55 |
| **student** | 7 | 42 |
| **technician** | 21 | 55 |
| **writer** | 18 | 60 |

Q 8. For each combination of occupation and gender, calculate the mean age.

Ex Ans:

occupation gender

administrator F 40.638889

M 37.162791

artist F 30.307692

M 32.333333

doctor M 43.571429

educator F 39.115385

M 43.101449

engineer F 29.500000

M 36.600000

entertainment F 31.000000

M 29.000000

executive F 44.000000

M 38.172414

healthcare F 39.818182

M 45.400000

homemaker F 34.166667

M 23.000000

lawyer F 39.500000

M 36.200000

librarian F 40.000000

M 40.000000

marketing F 37.200000

M 37.875000

none F 36.500000

M 18.600000

other F 35.472222

M 34.028986

programmer F 32.166667

M 33.216667

retired F 70.000000

M 62.538462

salesman F 27.000000

M 38.555556

scientist F 28.333333

M 36.321429

student F 20.750000

M 22.669118

technician F 38.000000

M 32.961538

writer F 37.631579

M 35.346154

Name: age, dtype: float64