

# ALCOHOL CONSUMPTION

DATA ANALYSIS PROJECT





# AGENDA

- SCENARIO
- QUESTIONS SOLVED
- INSIGHTS

# SCENARIO

YOU ARE A **DATA ANALYST** AT A SOCIAL RESEARCH COMPANY.  
YOUR MANAGER HAS A SIMPLE ADHOC REQUEST TO UNCOVER  
SOME STATS ABOUT ALCOHOL CONSUMPTION ACROSS THE WORLD.



# QUESTIONS SOLVED

1. WHICH CONTINENT DRINKS MORE BEER ON AVERAGE?
2. FOR EACH CONTINENT PRINT THE STATISTICS FOR WINE CONSUMPTION.
3. PRINT THE MEAN ALCOHOL CONSUMPTION PER CONTINENT FOR EVERY COLUMN.
4. PRINT THE MEDIAN ALCOHOL CONSUMPTION PER CONTINENT FOR EVERY COLUMN.

```
data = pd.read_csv('alcohol_cons.csv')  
data.head()
```

	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

DATA SET

# 1. WHICH CONTINENT DRINKS MORE BEER ON AVERAGE?

## 1. Which continent drinks more beer on average?

```
# Group by continent and calculate the average beer servings
average_beer_by_continent = data.groupby('continent')['beer_servings'].mean()

# Find the continent that drinks more beer on average
continent_with_most_beer = average_beer_by_continent.idxmax()

# Print the result
print(f"The continent that drinks more beer on average is: {continent_with_most_beer}")
```

The continent that drinks more beer on average is: EU



## 2. FOR EACH CONTINENT PRINT THE STATISTICS FOR WINE CONSUMPTION.

### 2. For each continent print the statistics for wine consumption

```
# Group by continent and print statistics for wine consumption
wine_statistics_by_continent = data.groupby('continent')['wine_servings'].describe()

# Print the result
print(wine_statistics_by_continent)
```

	count	mean	std	min	25%	50%	75%	max
continent								
AF	53.0	16.264151	38.846419	0.0	1.0	2.0	13.00	233.0
AS	44.0	9.068182	21.667034	0.0	0.0	1.0	8.00	123.0
EU	45.0	142.222222	97.421738	0.0	59.0	128.0	195.00	370.0
NA	23.0	24.521739	28.266378	1.0	5.0	11.0	34.00	100.0
OC	16.0	35.625000	64.555790	0.0	1.0	8.5	23.25	212.0
SA	12.0	62.416667	88.620189	1.0	3.0	12.0	98.50	221.0

### 3. Print the mean alcohol consumption per continent for every column.

```
# Group by continent and calculate the mean for each column
mean_alcohol_consumption_by_continent = data.groupby('continent').mean()

# Print the result
print(mean_alcohol_consumption_by_continent)
```

	beer_servings	spirit_servings	wine_servings	\
continent				
AF	61.471698	16.339623	16.264151	
AS	37.045455	60.840909	9.068182	
EU	193.777778	132.555556	142.222222	
NA	145.434783	165.739130	24.521739	
OC	89.687500	58.437500	35.625000	
SA	175.083333	114.750000	62.416667	

	total_litres_of_pure_alcohol
continent	
AF	3.007547
AS	2.170455
EU	8.617778
NA	5.995652
OC	3.381250
SA	6.308333

3. PRINT THE MEAN  
ALCOHOL  
CONSUMPTION PER  
CONTINENT FOR  
EVERY COLUMN.



#### 4. Print the median alcohol consumption per continent for every column.

```
# Group by continent and calculate the median for each column
median_alcohol_consumption_by_continent = data.groupby('continent').median()

# Print the result
print(median_alcohol_consumption_by_continent)
```

	beer_servings	spirit_servings	wine_servings
continent			
AF	32.0	3.0	2.0
AS	17.5	16.0	1.0
EU	219.0	122.0	128.0
NA	143.0	137.0	11.0
OC	52.5	37.0	8.5
SA	162.5	108.5	12.0

	total_litres_of_pure_alcohol
continent	
AF	2.30
AS	1.20
EU	10.00
NA	6.30
OC	1.75
SA	6.85

4. PRINT THE MEDIAN  
ALCOHOL  
CONSUMPTION PER  
CONTINENT FOR  
EVERY COLUMN.

# SUMMARY

## BEER CONSUMPTION:

- CONTINENT WITH THE HIGHEST AVERAGE BEER CONSUMPTION IS EU.
- AVERAGE BEER CONSUMPTION IN EU IS 193.77 LITRES.

## SPIRIT CONSUMPTION:

- CONTINENT WITH THE HIGHEST AVERAGE SPIRIT CONSUMPTION IS NA.
- AVERAGE SPIRIT CONSUMPTION IN NA IS 165.73 LITRES.

## WINE CONSUMPTION:

- CONTINENT WITH THE HIGHEST AVERAGE WINE CONSUMPTION IS EU.
- AVERAGE WINE CONSUMPTION IN EU IS 142.22 LITRES.

## PURE ALCOHOL CONSUMPTION:

- CONTINENT WITH THE HIGHEST AVERAGE PURE ALCOHOL CONSUMPTION IS EU.
- AVERAGE PURE ALCOHOL CONSUMPTION IN EU IS 8.61 LITRES.