Selected Dataset: countries\_1.csv

# GSB 521 Chapter 4 Assignment

Student Name:

Date:

Selected Dataset: ID ... continent\_is\_africa  
0 1.000000 ... False  
1 2.000000 ... False  
2 3.000000 ... True  
3 4.000000 ... False  
4 5.000000 ... False  
.. ... ... ...  
171 172.000000 ... False  
172 173.000000 ... False  
173 174.000000 ... True  
174 88.861635 ... True  
175 176.000000 ... True  
  
[176 rows x 18 columns]

## Task 1: Summary Statistics After Outlier Handling

Variable selected: population

106537.0

40099462.0

34503774.0

2811666.0

9365145.0

45808747.0

2790974.0

25688079.0

8955797.0

10137750.0

Please calculate and interpret the following after handling outliers: mean, mode, median, 90% trimmed mean, range, variance, and standard deviation.

## Task 2: Histogram Shape

Histogram of variable: population

Please identify the shape: left-skewed, right-skewed, or normal. Write your interpretation below.

## Task 3: Scatterplot of Two Numeric Variables

X: prop\_internet | Y: cemission\_per\_cap

X values:

18.4

36.0

72.2

100.0

85.5

76.5

89.6

87.5

84.6

9.4

Y values:

0.363

1.03

2.01

19.8

3.53

2.59

13.8

9.12

3.81

1.08

Please create a scatterplot and interpret the relationship.

## Task 4: Column Chart from Two Text Variables

X: continent | Hue: iso\_alpha

X values:

North America

Asia

Africa

Europe

Asia

South America

Asia

Oceania

Europe

Asia

Y values:

ABW

AFG

AGO

ALB

ARE

ARG

ARM

AUS

AUT

AZE

Please create a column chart and describe any patterns.