

```

In [1]: #Load the data into a DataFrame and print the results
#Query the number of rows
#Print the column headers
#Print the data types
#Print the index
#WHO_first9cols.CSV

#Load pd
import pandas as pd

#Load csv
#WHO_first9cols.CSV
df = pd.read_csv('WHO_first9cols.CSV')

#number of rows
num_rows = len(df)

#column headers
column_headers = df.columns.tolist()

#data types
data_types = df.dtypes

#index
index_info = df.index
#print number of rows, column headers, data types, and index
print(f"Number of Rows: {num_rows}")
print(f"Column Headers: {column_headers}")
print(f>Data Types:\n{data_types}")
print(f"Index Information: {index_info}")

```

```

Number of Rows: 202
Column Headers: ['Country', 'CountryID', 'Continent', 'Adolescent fertility rate (%)', 'Adult literacy rate (%)', 'Gross national income per capita (PPP international $)', 'Net primary school enrolment ratio female (%)', 'Net primary school enrolment ratio male (%)', 'Population (in thousands) total']
Data Types:
Country                                object
CountryID                             int64
Continent                             int64
Adolescent fertility rate (%)           float64
Adult literacy rate (%)                  float64
Gross national income per capita (PPP international $) float64
Net primary school enrolment ratio female (%) float64
Net primary school enrolment ratio male (%) float64
Population (in thousands) total         float64
dtype: object
Index Information: RangeIndex(start=0, stop=202, step=1)

```

```

In [2]: #Using the same file, select the "Country" column and return its data type along with

#Load pd
import pandas as pd

#Load csv in df
#WHO_first9cols.CSV
df = pd.read_csv('WHO_first9cols.CSV')

```

```
#only Country column
country_column = df['Country']

#data type
data_type = country_column.dtype

#series shape
shape = country_column.shape

#index
index_info = country_column.index

#values
values = country_column.values

#name
name = country_column.name

#print data type, series shape, index, values and name
print(f"Data Type: {data_type}")
print(f"Series Shape: {shape}")
print(f"Index Information: {index_info}")
print(f"Values: {values}")
print(f"Name: {name}")
```

```
Data Type: object
Series Shape: (202,)
Index Information: RangeIndex(start=0, stop=202, step=1)
Values: ['Afghanistan' 'Albania' 'Algeria' 'Andorra' 'Angola'
'Antigua and Barbuda' 'Argentina' 'Armenia' 'Australia' 'Austria'
'Azerbaijan' 'Bahamas' 'Bahrain' 'Bangladesh' 'Barbados' 'Belarus'
'Belgium' 'Belize' 'Benin' 'Bermuda' 'Bhutan' 'Bolivia'
'Bosnia and Herzegovina' 'Botswana' 'Brazil' 'Brunei Darussalam'
'Bulgaria' 'Burkina Faso' 'Burundi' 'Cambodia' 'Cameroon' 'Canada'
'Cape Verde' 'Central African Republic' 'Chad' 'Chile' 'China' 'Colombia'
'Comoros' 'Congo, Dem. Rep.' 'Congo, Rep.' 'Cook Islands' 'Costa Rica'
'Cote d'Ivoire' 'Croatia' 'Cuba' 'Cyprus' 'Czech Republic' 'Denmark'
'Djibouti' 'Dominica' 'Dominican Republic' 'Ecuador' 'Egypt'
'El Salvador' 'Equatorial Guinea' 'Eritrea' 'Estonia' 'Ethiopia' 'Fiji'
'Finland' 'France' 'French Polynesia' 'Gabon' 'Gambia' 'Georgia'
'Germany' 'Ghana' 'Greece' 'Grenada' 'Guatemala' 'Guinea' 'Guinea-Bissau'
'Guyana' 'Haiti' 'Honduras' 'Hong Kong, China' 'Hungary' 'Iceland'
'India' 'Indonesia' 'Iran (Islamic Republic of)' 'Iraq' 'Ireland'
'Israel' 'Italy' 'Jamaica' 'Japan' 'Jordan' 'Kazakhstan' 'Kenya'
'Kiribati' 'Korea, Dem. Rep.' 'Korea, Rep.' 'Kuwait' 'Kyrgyzstan'
'Lao People's Democratic Republic' 'Latvia' 'Lebanon' 'Lesotho' 'Liberia'
'Libyan Arab Jamahiriya' 'Lithuania' 'Luxembourg' 'Macao, China'
'Macedonia' 'Madagascar' 'Malawi' 'Malaysia' 'Maldives' 'Mali' 'Malta'
'Marshall Islands' 'Mauritania' 'Mauritius' 'Mexico'
'Micronesia (Federated States of)' 'Moldova' 'Monaco' 'Mongolia'
'Montenegro' 'Morocco' 'Mozambique' 'Myanmar' 'Namibia' 'Nauru' 'Nepal'
'Netherlands' 'Netherlands Antilles' 'New Caledonia' 'New Zealand'
'Nicaragua' 'Niger' 'Nigeria' 'Niue' 'Norway' 'Oman' 'Pakistan' 'Palau'
'Panama' 'Papua New Guinea' 'Paraguay' 'Peru' 'Philippines' 'Poland'
'Portugal' 'Puerto Rico' 'Qatar' 'Romania' 'Russia' 'Rwanda'
'Saint Kitts and Nevis' 'Saint Lucia' 'Saint Vincent and the Grenadines'
'Samoa' 'San Marino' 'Sao Tome and Principe' 'Saudi Arabia' 'Senegal'
'Serbia' 'Seychelles' 'Sierra Leone' 'Singapore' 'Slovakia' 'Slovenia'
'Solomon Islands' 'Somalia' 'South Africa' 'Spain' 'Sri Lanka' 'Sudan'
'Suriname' 'Swaziland' 'Sweden' 'Switzerland' 'Syria' 'Taiwan'
'Tajikistan' 'Tanzania' 'Thailand' 'Timor-Leste' 'Togo' 'Tonga'
'Trinidad and Tobago' 'Tunisia' 'Turkey' 'Turkmenistan' 'Tuvalu' 'Uganda'
'Ukraine' 'United Arab Emirates' 'United Kingdom'
'United States of America' 'Uruguay' 'Uzbekistan' 'Vanuatu' 'Venezuela'
'Vietnam' 'West Bank and Gaza' 'Yemen' 'Zambia' 'Zimbabwe']
Name: Country
```

```
In [11]: print(data.columns)
```

```
Index(['Yearly Mean Total Sunspot Number', 'Yearly Mean Standard Deviation',
'Number of Observations', 'Definitive/Provisional Indicator'],
dtype='object')
```

```
In [23]: #Using the Quandl API, import the data
#Print the head() and tail()
#Query for the last value using the last date
#Query the date with date strings in the YYYYMMDD format
#Query with a Boolean, where the number of observations is greater than the mean number
#Query with a Boolean, where the number of sunspots is greater than the mean number of

#for the quandl api, need to load quandl library
!pip install quandl #done

#load quandl, and pd
import quandl
```

```

import pandas as pd

#api key kgECEhP4wEwUFD7MW_Ae
quandl.ApiConfig.api_key = "kgECEhP4wEwUFD7MW_Ae"

#Index(['Yearly Mean Total Sunspot Number', 'Yearly Mean Standard Deviation', 'Number
#sunspot
dataset_code = "SIDC/SUNSPOTS_A"
data = quandl.get(dataset_code)

#head and tail
print("head:")
print(data.head())
print("\nTail:")
print(data.tail())

#query for last value w/ last date
#Yearly Mean Total Sunspot Number
last_date = data.index[-1]
last_value = data.loc[last_date]['Yearly Mean Total Sunspot Number']
print(f"\nLast date: {last_date}")
print(f"last value: {last_value}")

#date strings with yyyyymmdd format
date_string = "20230918"
date_query = data[data.index.strftime('%Y%m%d') == date_string]
print(f"\nDate query for {date_string}:")
print(date_query)

#boolean, with # of observations is > mean
mean_observations = data['Number of Observations'].mean()

#query # of observations is > mean
observations_greater_than_mean = data[data['Number of Observations'] > mean_observations]
print("\nQuery with Number of Observations > Mean:")
print(observations_greater_than_mean)

#sunspots is > mean
sunspots_greater_than_mean = data[data['Yearly Mean Total Sunspot Number'] > data['Yearly Mean Standard Deviation']]
print("\nQuery with Sunspots > Mean:")
print(sunspots_greater_than_mean)

```

head:

Date	Yearly Mean Total Sunspot Number	Yearly Mean Standard Deviation	\
1700-12-31	8.3	NaN	
1701-12-31	18.3	NaN	
1702-12-31	26.7	NaN	
1703-12-31	38.3	NaN	
1704-12-31	60.0	NaN	

Date	Number of Observations	Definitive/Provisional Indicator
1700-12-31	NaN	1.0
1701-12-31	NaN	1.0
1702-12-31	NaN	1.0
1703-12-31	NaN	1.0
1704-12-31	NaN	1.0

Tail:

Date	Yearly Mean Total Sunspot Number	Yearly Mean Standard Deviation	\
2016-12-31	39.8	3.9	
2017-12-31	21.7	2.5	
2018-12-31	7.0	1.1	
2019-12-31	3.6	0.5	
2020-12-31	8.8	4.1	

Date	Number of Observations	Definitive/Provisional Indicator
2016-12-31	9940.0	1.0
2017-12-31	11444.0	1.0
2018-12-31	12611.0	1.0
2019-12-31	12884.0	1.0
2020-12-31	14440.0	1.0

Last date: 2020-12-31 00:00:00

last value: 8.8

Date query for 20230918:

Empty DataFrame

Columns: [Yearly Mean Total Sunspot Number, Yearly Mean Standard Deviation, Number of Observations, Definitive/Provisional Indicator]

Index: []

Query with Number of Observations &gt; Mean:

Date	Yearly Mean Total Sunspot Number	Yearly Mean Standard Deviation	\
1981-12-31	198.9	13.1	
1982-12-31	162.4	12.1	
1983-12-31	91.0	7.6	
1984-12-31	60.5	5.9	
1985-12-31	20.6	3.7	
1986-12-31	14.8	3.5	
1987-12-31	33.9	3.7	
1988-12-31	123.0	8.4	
1989-12-31	211.1	12.8	
1990-12-31	191.8	11.2	
1991-12-31	203.3	12.7	
1992-12-31	133.0	8.9	
1993-12-31	76.1	5.8	
1994-12-31	44.9	4.4	

1995-12-31	25.1	3.7
1996-12-31	11.6	3.1
1997-12-31	28.9	3.6
1998-12-31	88.3	6.6
1999-12-31	136.3	9.3
2000-12-31	173.9	10.1
2001-12-31	170.4	10.5
2002-12-31	163.6	9.8
2003-12-31	99.3	7.1
2004-12-31	65.3	5.9
2005-12-31	45.8	4.7
2006-12-31	24.7	3.5
2007-12-31	12.6	2.7
2008-12-31	4.2	2.5
2009-12-31	4.8	2.5
2010-12-31	24.9	3.4
2011-12-31	80.8	6.7
2012-12-31	84.5	6.7
2013-12-31	94.0	6.9
2014-12-31	113.3	8.0
2015-12-31	69.8	6.4
2016-12-31	39.8	3.9
2017-12-31	21.7	2.5
2018-12-31	7.0	1.1
2019-12-31	3.6	0.5
2020-12-31	8.8	4.1

Date	Number of Observations	Definitive/Provisional Indicator
1981-12-31	3049.0	1.0
1982-12-31	3436.0	1.0
1983-12-31	4216.0	1.0
1984-12-31	5103.0	1.0
1985-12-31	5543.0	1.0
1986-12-31	5934.0	1.0
1987-12-31	6396.0	1.0
1988-12-31	6556.0	1.0
1989-12-31	6932.0	1.0
1990-12-31	7108.0	1.0
1991-12-31	6932.0	1.0
1992-12-31	7845.0	1.0
1993-12-31	8010.0	1.0
1994-12-31	8524.0	1.0
1995-12-31	8429.0	1.0
1996-12-31	7614.0	1.0
1997-12-31	7294.0	1.0
1998-12-31	6353.0	1.0
1999-12-31	6413.0	1.0
2000-12-31	5953.0	1.0
2001-12-31	6558.0	1.0
2002-12-31	6588.0	1.0
2003-12-31	7087.0	1.0
2004-12-31	6882.0	1.0
2005-12-31	7084.0	1.0
2006-12-31	6370.0	1.0
2007-12-31	6841.0	1.0
2008-12-31	6644.0	1.0
2009-12-31	6465.0	1.0
2010-12-31	6328.0	1.0
2011-12-31	6077.0	1.0

2012-12-31	5753.0	1.0
2013-12-31	5347.0	1.0
2014-12-31	5273.0	1.0
2015-12-31	8903.0	1.0
2016-12-31	9940.0	1.0
2017-12-31	11444.0	1.0
2018-12-31	12611.0	1.0
2019-12-31	12884.0	1.0
2020-12-31	14440.0	1.0

Query with Sunspots > Mean:

Date	Yearly Mean Total Sunspot Number	Yearly Mean Standard Deviation \
1705-12-31	96.7	NaN
1717-12-31	105.0	NaN
1718-12-31	100.0	NaN
1726-12-31	130.0	NaN
1727-12-31	203.3	NaN
...	...	...
2003-12-31	99.3	7.1
2011-12-31	80.8	6.7
2012-12-31	84.5	6.7
2013-12-31	94.0	6.9
2014-12-31	113.3	8.0

Date	Number of Observations	Definitive/Provisional Indicator
1705-12-31	NaN	1.0
1717-12-31	NaN	1.0
1718-12-31	NaN	1.0
1726-12-31	NaN	1.0
1727-12-31	NaN	1.0
...	...	...
2003-12-31	7087.0	1.0
2011-12-31	6077.0	1.0
2012-12-31	5753.0	1.0
2013-12-31	5347.0	1.0
2014-12-31	5273.0	1.0

[136 rows x 4 columns]

```
In [14]: #Using the Quandl API, import the data and run the following descriptive stats where S
#Print the results of the describe function
#Print the count of observations
#Print the mad
#Print the mean
#Print the median
#Print the Max
#Print the Min
#Print the Mode
#Print the standard deviation
#Print the variance
#Print the Skewness

#Load quandl, pd
import quandl
import pandas as pd
```

```
#api key kgECEhP4wEwUFD7MW_Ae
quandl.ApiConfig.api_key = "kgECEhP4wEwUFD7MW_Ae"

#sunsot data
dataset_code = "SIDC/SUNSPOTS_A"
data = quandl.get(dataset_code)

#sunspots is not equal to NaN
filtered_data = data[~data['Yearly Mean Total Sunspot Number'].isna()]

#results of the describe function
describe_results = filtered_data['Yearly Mean Total Sunspot Number'].describe()
print("describ function:")
print(describe_results)

#count of observations
count_observations = filtered_data['Yearly Mean Total Sunspot Number'].count()
print(f"count of observations: {count_observations}")

#MAD
mad = filtered_data['Yearly Mean Total Sunspot Number'].mad()
print(f"mean absolute deviation (MAD): {mad}")

#mean
mean = filtered_data['Yearly Mean Total Sunspot Number'].mean()
print(f"mean: {mean}")

#median
median = filtered_data['Yearly Mean Total Sunspot Number'].median()
print(f"median: {median}")

#max
max_value = filtered_data['Yearly Mean Total Sunspot Number'].max()
print(f"max: {max_value}")

#min
min_value = filtered_data['Yearly Mean Total Sunspot Number'].min()
print(f"min: {min_value}")

#mode
mode_value = filtered_data['Yearly Mean Total Sunspot Number'].mode()[0]
print(f"mode: {mode_value}")

#standard deviation
std_deviation = filtered_data['Yearly Mean Total Sunspot Number'].std()
print(f"standard deviation: {std_deviation}")

#variance
variance = filtered_data['Yearly Mean Total Sunspot Number'].var()
print(f"variance: {variance}")

#skewness
skewness = filtered_data['Yearly Mean Total Sunspot Number'].skew()
print(f"skewness: {skewness}")
```



```

descriptive statistics:
count      321.000000
mean       78.517134
std        62.091523
min         0.000000
25%        24.200000
50%        65.300000
75%       115.200000
max       269.300000
Name: Yearly Mean Total Sunspot Number, dtype: float64
count of observations: 321
mean absolute deviation (MAD): 51.02099552605273
mean: 78.51713395638629
median: 65.3
max: 269.3
min: 0.0
mode: 18.3
standard deviation: 62.09152256355228
variance: 3855.3571742601225
skewness: 0.8147812356121689

```

C:\Users\lexiw\AppData\Local\Temp\ipykernel\_22936\3760674105.py:40: FutureWarning: The 'mad' method is deprecated and will be removed in a future version. To compute the same result, you may do `(df - df.mean()).abs().mean()`.  
 mad = filtered\_data['Yearly Mean Total Sunspot Number'].mad()

```

In [15]: #Using the numpy random data generator, create a dataframe with the following columns
#Group the data by the weather column and then create a function to iterate through the
#Your function/variable that you created (weather_group) can be used for aggregation now
#Create another group - on Food (so you would have Weather and Food)
#Using the new groups - use the numpy function agg() to find the mean and median number

#Load pd and np
import pandas as pd
import numpy as np

#make dataframe with weather, food price, and number
#set seed
np.random.seed(42)
data = {'Weather': np.random.choice(['Hot', 'Cold'], size=100),
        'Food Price': np.random.uniform(1, 10, size=100),
        'Number': np.random.randint(1, 100, size=100)}
df = pd.DataFrame(data)

#group by "weather"
weather_group = df.groupby('Weather')

#function to iterate through groups (first row, last row, mean)
def print_group_summary(group_name, group):
    print(f"group: {group_name}")
    print(f"first row:\n{group.head(1)}")
    print(f"last row:\n{group.tail(1)}")
    print(f"mean:\n{group.mean()}\n")
for group_name, group_data in weather_group:
    print_group_summary(group_name, group_data)

#food price group
food_group = df.groupby(['Weather', 'Food Price'])

#numpy's agg() function for mean, and median of number and food price

```

```
result = food_group.agg({'Number': ['mean', 'median'], 'Food Price': ['mean', 'median']})
print("summary Statistics by weather and food price:")
print(result)
```

group: Cold

first row:

	Weather	Food Price	Number
1	Cold	7.976195	1

last row:

	Weather	Food Price	Number
98	Cold	1.463309	33

mean:

	Food Price	Number
	5.435908	50.339286

dtype: float64

group: Hot

first row:

	Weather	Food Price	Number
0	Hot	9.726262	97

last row:

	Weather	Food Price	Number
99	Hot	3.507818	14

mean:

	Food Price	Number
	5.302751	49.840909

dtype: float64

summary Statistics by weather and food price:

		Number		Food Price	
		mean	median	mean	median
Weather	Food Price				
Cold	1.049699	16.0	16.0	1.049699	1.049699
	1.228772	57.0	57.0	1.228772	1.228772
	1.331983	41.0	41.0	1.331983	1.331983
	1.463309	33.0	33.0	1.463309	1.463309
	1.572025	19.0	19.0	1.572025	1.572025
...	...	...	...	...	...
Hot	9.367279	48.0	48.0	9.367279	9.367279
	9.455490	19.0	19.0	9.455490	9.455490
	9.486187	89.0	89.0	9.486187	9.486187
	9.726262	97.0	97.0	9.726262	9.726262
	9.881982	70.0	70.0	9.881982	9.881982

[100 rows x 4 columns]

C:\Users\lexiw\AppData\Local\Temp\ipykernel\_22936\588814616.py:28: FutureWarning: The default value of numeric\_only in DataFrame.mean is deprecated. In a future version, it will default to False. In addition, specifying 'numeric\_only=None' is deprecated. Select only valid columns or specify the value of numeric\_only to silence this warning.

```
print(f"mean:\n{group.mean()}\n")
```

C:\Users\lexiw\AppData\Local\Temp\ipykernel\_22936\588814616.py:28: FutureWarning: The default value of numeric\_only in DataFrame.mean is deprecated. In a future version, it will default to False. In addition, specifying 'numeric\_only=None' is deprecated. Select only valid columns or specify the value of numeric\_only to silence this warning.

```
print(f"mean:\n{group.mean()}\n")
```

In [17]: *#Using the dataframe you created in #5, select the first 3 rows*  
*#Using the concat function from pandas, put the 3 rows you selected back with the orig*

```

#Using the append function, take those 3 rows and the last 2 rows of the original Data

#Load pd, np
import pandas as pd
import numpy as np

#random data
#make dataframe with weather, food price, and number
#set seed
np.random.seed(42)
data = {'Weather': np.random.choice(['Hot', 'Cold'], size=100),
        'Food Price': np.random.uniform(1, 10, size=100),
        'Number': np.random.randint(1, 100, size=100)}
df = pd.DataFrame(data)

#first 3 rows
first_3_rows = df.head(3)

# Concatenate 3 rows
concatenated_df = pd.concat([df, first_3_rows])

#concatenated DataFrame
print("concatenated dataframe:")
print(concatenated_df)

#Last 2 rows
last_2_rows = df.tail(2)

#append func
appended_df = first_3_rows.append(last_2_rows)
print("\nAppended dataframe:")
print(appended_df)

```

```

concatenated dataframe:
   Weather  Food Price  Number
0      Hot    9.726262     97
1     Cold    7.976195      1
2      Hot    9.455490     19
3      Hot    9.053446      2
4      Hot    6.381100     53
..      ...         ...     ...
98     Cold    1.463309     33
99      Hot    3.507818     14
0      Hot    9.726262     97
1     Cold    7.976195      1
2      Hot    9.455490     19

```

[103 rows x 3 columns]

```

Appended dataframe:
   Weather  Food Price  Number
0      Hot    9.726262     97
1     Cold    7.976195      1
2      Hot    9.455490     19
98     Cold    1.463309     33
99      Hot    3.507818     14

```

C:\Users\lexiw\AppData\Local\Temp\ipykernel\_22936\829514449.py:32: FutureWarning: The frame.append method is deprecated and will be removed from pandas in a future version. Use pandas.concat instead.

```
appended_df = first_3_rows.append(last_2_rows)
```

In [18]: *#Using the two CSV files dest.csv and tips.csv, we will bring together two datasets, c*  
*#Using the merge() function, bring dest and tips together on the "EmpNr" column and pr*  
*#Using the join() function, query both files and print the results*

```
#Load pd
import pandas as pd

#Load dest csv.csv
#Load tips csv.csv
dest_df = pd.read_csv("dest csv.csv")
tips_df = pd.read_csv("tips csv.csv")

#merge
merged_df = pd.merge(dest_df, tips_df, on="EmpNr")
print("merged dataframe:")
print(merged_df)
```

merged dataframe:

	EmpNr	Dest	Amount
0	5	The Hague	10.0
1	9	Rotterdam	5.0

In [19]: *#Using the two CSV files dest.csv and tips.csv, we will bring together two datasets, c*  
*#Using the merge() function, bring dest and tips together on the "EmpNr" column and pr*  
*#Using the join() function, query both files and print the results*

```
#Load pd
import pandas as pd

#Load dest csv.csv
#Load tips csv.csv
dest_df = pd.read_csv("dest csv.csv")
tips_df = pd.read_csv("tips csv.csv")

#"EmpNr" column as index
dest_df.set_index("EmpNr", inplace=True)
tips_df.set_index("EmpNr", inplace=True)

#join them
joined_df = dest_df.join(tips_df, how="inner")

#reset index
joined_df.reset_index(inplace=True)
print("Joined DataFrame:")
print(joined_df)
```

Joined DataFrame:

	EmpNr	Dest	Amount
0	5	The Hague	10.0
1	9	Rotterdam	5.0

In [20]: *#Using the WHO\_first9cols.csv file, select the first 3 rows, including the headers for*  
*#Check for missing values*  
*#Count the number of NaN values*  
*#Print any non-missing values*  
*#Replace the missing values with a scalar value*  
  
*#WHO\_first9cols.CSV*

```

#Load pd
import pandas as pd

#WHO_first9cols.CSV
df = pd.read_csv("WHO_first9cols.CSV")

#3 rows, headers, country, net, male %
selected_df = df[['Country', 'Net primary school enrolment ratio male (%)']].head(3)

#missing values
missing_values = selected_df.isna()

#NaN values
num_nan_values = missing_values.sum().sum()

#non-missing values
non_missing_values = selected_df.dropna()
print("Non-Missing Values:")
print(non_missing_values)

#missing value w/ scalar value
selected_df.fillna(0, inplace=True)
print("\nDataFrame with Missing Values Replaced:")
print(selected_df)
print(f"\nNumber of NaN Values: {num_nan_values}")

```

Non-Missing Values:

	Country	Net primary school enrolment ratio male (%)
1	Albania	94.0
2	Algeria	96.0

DataFrame with Missing Values Replaced:

	Country	Net primary school enrolment ratio male (%)
0	Afghanistan	0.0
1	Albania	94.0
2	Algeria	96.0

Number of NaN Values: 1

In [ ]: