In [2]:
```
import pandas as pd
import numpy as np
```

Loading the dataset

In [3]:
```
df = pd.read_csv('country_wise_latest.csv')
df.head()
```

Out[3]:

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	New deaths	New recovered	Deaths / 100 Cases
0	Afghanistan	36263	1269	25198	9796	106	10	18	3.50
1	Albania	4880	144	2745	1991	117	6	63	2.95
2	Algeria	27973	1163	18837	7973	616	8	749	4.16
3	Andorra	907	52	803	52	10	0	0	5.73
4	Angola	950	41	242	667	18	1	0	4.32

In [4]:
```
# describing the covid dataset
```

In [5]:
```
df.describe()
```

Out[5]:

	Confirmed	Deaths	Recovered	Active	New cases	New deaths
count	1.870000e+02	187.000000	1.870000e+02	1.870000e+02	187.000000	187.000000
mean	8.813094e+04	3497.518717	5.063148e+04	3.400194e+04	1222.957219	28.957219
std	3.833187e+05	14100.002482	1.901882e+05	2.133262e+05	5710.374790	120.037173
min	1.000000e+01	0.000000	0.000000e+00	0.000000e+00	0.000000	0.000000
25%	1.114000e+03	18.500000	6.265000e+02	1.415000e+02	4.000000	0.000000
50%	5.059000e+03	108.000000	2.815000e+03	1.600000e+03	49.000000	1.000000
75%	4.046050e+04	734.000000	2.260600e+04	9.149000e+03	419.500000	6.000000
max	4.290259e+06	148011.000000	1.846641e+06	2.816444e+06	56336.000000	1076.000000

In [6]:
```
# getting the datatype and information about the dataset
```

In [7]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 187 entries, 0 to 186
Data columns (total 15 columns):
 #   Column                  Non-Null Count  Dtype  
---  ------                  --------------  -----  
 0   Country/Region          187 non-null    object 
 1   Confirmed               187 non-null    int64  
 2   Deaths                  187 non-null    int64  
 3   Recovered               187 non-null    int64  
 4   Active                  187 non-null    int64  
 5   New cases               187 non-null    int64  
 6   New deaths              187 non-null    int64  
 7   New recovered           187 non-null    int64  
 8   Deaths / 100 Cases      187 non-null    float64
 9   Recovered / 100 Cases   187 non-null    float64
 10  Deaths / 100 Recovered  187 non-null    float64
 11  Confirmed last week     187 non-null    int64  
 12  1 week change           187 non-null    int64  
 13  1 week % increase       187 non-null    float64
 14  WHO Region              187 non-null    object 
dtypes: float64(4), int64(9), object(2)
memory usage: 22.0+ KB
```

Check the Null values in the Dataset

In [8]:
```
df.isnull().sum()
```

Out[8]:
```
Country/Region            0
Confirmed                 0
Deaths                    0
Recovered                 0
Active                    0
New cases                 0
New deaths                0
New recovered             0
Deaths / 100 Cases        0
Recovered / 100 Cases     0
Deaths / 100 Recovered    0
Confirmed last week       0
1 week change             0
1 week % increase         0
WHO Region                0
dtype: int64
```

Find Number of Unique Countries

method 1) using arrays

In [10]:
```
country =[]
for i in df.values:
    country.append(i[0])
country = list(set(country))
print('Number of unique contries : ',len(country))
print('unique countries : ',country)
```

```
Number of unique contries :  187
unique countries :  ['Israel', 'Luxembourg', 'Philippines', 'Lithua
nia', 'Papua New Guinea', 'Congo (Kinshasa)', 'United Kingdom', 'Th
ailand', 'Cabo Verde', 'Bulgaria', 'Honduras', 'Andorra', 'Burkina
Faso', 'Gabon', 'Indonesia', 'Fiji', 'Italy', 'Jordan', 'India', 'E
thiopia', 'United Arab Emirates', 'France', 'Laos', 'Saint Lucia',
'Iran', 'Malaysia', 'Togo', 'West Bank and Gaza', 'Mauritania', 'Bo
snia and Herzegovina', 'Western Sahara', 'Nicaragua', 'Argentina',
'Lesotho', 'El Salvador', 'Syria', 'Cuba', 'China', 'Finland', 'Bel
arus', 'Bahamas', 'Suriname', 'Dominica', 'Monaco', 'Holy See', 'Ma
dagascar', 'Comoros', 'Chad', 'Gambia', 'Kenya', 'Peru', 'Azerbaija
n', 'North Macedonia', 'Saint Kitts and Nevis', 'Libya', 'Eritrea',
'Zimbabwe', 'Barbados', 'Mexico', 'Kuwait', 'Cyprus', 'Seychelles',
'Ecuador', 'Uzbekistan', 'Saudi Arabia', 'Chile', 'South Korea', 'V
enezuela', 'Slovakia', 'Austria', 'Zambia', 'Sweden', 'Central Afri
can Republic', 'Guinea', 'Oman', 'Guinea-Bissau', 'Poland', 'Benin
', 'Armenia', 'Nigeria', "Cote d'Ivoire", 'Iraq', 'Estonia', 'Irela
nd', 'Nepal', 'Latvia', 'Spain', 'Montenegro', 'Liechtenstein', 'Co
ngo (Brazzaville)', 'Brazil', 'Slovenia', 'Yemen', 'Senegal', 'Qata
r', 'New Zealand', 'Eswatini', 'Equatorial Guinea', 'Egypt', 'Malaw
i', 'Hungary', 'Jamaica', 'Albania', 'Colombia', 'South Africa', 'G
renada', 'Australia', 'Mongolia', 'Trinidad and Tobago', 'Timor-Les
te', 'Turkey', 'Saint Vincent and the Grenadines', 'Serbia', 'Burma
', 'Tajikistan', 'Sri Lanka', 'Kazakhstan', 'Rwanda', 'Germany', 'S
witzerland', 'Namibia', 'Niger', 'Bangladesh', 'Bhutan', 'Lebanon',
'Croatia', 'Sudan', 'Guatemala', 'Taiwan*', 'Mozambique', 'Japan',
'Canada', 'Belize', 'Morocco', 'Netherlands', 'Paraguay', 'Bahrain
', 'Malta', 'Pakistan', 'Russia', 'Iceland', 'Czechia', 'Afghanista
n', 'Kyrgyzstan', 'Norway', 'Djibouti', 'Algeria', 'Bolivia', 'Ghan
a', 'Maldives', 'Denmark', 'Burundi', 'Ukraine', 'Singapore', 'Libe
ria', 'Tunisia', 'Costa Rica', 'Portugal', 'Sierra Leone', 'Mauriti
us', 'Romania', 'Haiti', 'Vietnam', 'Greenland', 'Georgia', 'Mali',
'Sao Tome and Principe', 'Antigua and Barbuda', 'South Sudan', 'Bot
swana', 'US', 'Moldova', 'Dominican Republic', 'Uganda', 'Uruguay',
'Brunei', 'Panama', 'San Marino', 'Belgium', 'Greece', 'Angola', 'T
anzania', 'Guyana', 'Somalia', 'Cameroon', 'Cambodia', 'Kosovo']
```

method 2. using nunique function

In [13]:
```
print('Number of unique countries :',df['Country/Region'].nunique())
print('unique countries :',df['Country/Region'].unique())
```

```
Number of unique countries : 187
unique countries : ['Afghanistan' 'Albania' 'Algeria' 'Andorra' 'An
gola'
 'Antigua and Barbuda' 'Argentina' 'Armenia' 'Australia' 'Austria'
 'Azerbaijan' 'Bahamas' 'Bahrain' 'Bangladesh' 'Barbados' 'Belarus'
 'Belgium' 'Belize' 'Benin' 'Bhutan' 'Bolivia' 'Bosnia and Herzegov
ina'
 'Botswana' 'Brazil' 'Brunei' 'Bulgaria' 'Burkina Faso' 'Burma' 'Bu
rundi'
 'Cabo Verde' 'Cambodia' 'Cameroon' 'Canada' 'Central African Repub
lic'
 'Chad' 'Chile' 'China' 'Colombia' 'Comoros' 'Congo (Brazzaville)'
 'Congo (Kinshasa)' 'Costa Rica' "Cote d'Ivoire" 'Croatia' 'Cuba' '
Cyprus'
 'Czechia' 'Denmark' 'Djibouti' 'Dominica' 'Dominican Republic' 'Ec
uador'
 'Egypt' 'El Salvador' 'Equatorial Guinea' 'Eritrea' 'Estonia' 'Esw
atini'
 'Ethiopia' 'Fiji' 'Finland' 'France' 'Gabon' 'Gambia' 'Georgia' 'G
ermany'
 'Ghana' 'Greece' 'Greenland' 'Grenada' 'Guatemala' 'Guinea'
 'Guinea-Bissau' 'Guyana' 'Haiti' 'Holy See' 'Honduras' 'Hungary'
 'Iceland' 'India' 'Indonesia' 'Iran' 'Iraq' 'Ireland' 'Israel' 'It
aly'
 'Jamaica' 'Japan' 'Jordan' 'Kazakhstan' 'Kenya' 'Kosovo' 'Kuwait'
 'Kyrgyzstan' 'Laos' 'Latvia' 'Lebanon' 'Lesotho' 'Liberia' 'Libya'
 'Liechtenstein' 'Lithuania' 'Luxembourg' 'Madagascar' 'Malawi' 'Ma
laysia'
 'Maldives' 'Mali' 'Malta' 'Mauritania' 'Mauritius' 'Mexico' 'Moldo
va'
 'Monaco' 'Mongolia' 'Montenegro' 'Morocco' 'Mozambique' 'Namibia'
'Nepal'
 'Netherlands' 'New Zealand' 'Nicaragua' 'Niger' 'Nigeria'
 'North Macedonia' 'Norway' 'Oman' 'Pakistan' 'Panama' 'Papua New G
uinea'
 'Paraguay' 'Peru' 'Philippines' 'Poland' 'Portugal' 'Qatar' 'Roman
ia'
 'Russia' 'Rwanda' 'Saint Kitts and Nevis' 'Saint Lucia'
 'Saint Vincent and the Grenadines' 'San Marino' 'Sao Tome and Prin
cipe'
 'Saudi Arabia' 'Senegal' 'Serbia' 'Seychelles' 'Sierra Leone' 'Sin
gapore'
 'Slovakia' 'Slovenia' 'Somalia' 'South Africa' 'South Korea'
 'South Sudan' 'Spain' 'Sri Lanka' 'Sudan' 'Suriname' 'Sweden'
 'Switzerland' 'Syria' 'Taiwan*' 'Tajikistan' 'Tanzania' 'Thailand'
 'Timor-Leste' 'Togo' 'Trinidad and Tobago' 'Tunisia' 'Turkey' 'US'
 'Uganda' 'Ukraine' 'United Arab Emirates' 'United Kingdom' 'Urugua
y'
 'Uzbekistan' 'Venezuela' 'Vietnam' 'West Bank and Gaza' 'Western S
ahara'
 'Yemen' 'Zambia' 'Zimbabwe']
```