1. Getting started with COVID Analysis - Dataset walkthrough:

In [8]:
```
import pandas as pd
```

In [9]:
```
df = pd.read_csv("country_wise_latest.csv")
```

In [10]:
```
df
```

Out[10]:

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	Deaths / 100 Recovered	Confirmed last week	1 week change	1 week % increase	WHO Region
0	Afghanistan	36263	1269	25198	9796	106	10	18	3.50	69.49	5.04	35526	737	2.07	Eastern Mediterranean
1	Albania	4880	144	2745	1991	117	6	63	2.95	56.25	5.25	4171	709	17.00	Europe
2	Algeria	27973	1163	18837	7973	616	8	749	4.16	67.34	6.17	23691	4282	18.07	Africa
3	Andorra	907	52	803	52	10	0	0	5.73	88.53	6.48	884	23	2.60	Europe
4	Angola	950	41	242	667	18	1	0	4.32	25.47	16.94	749	201	26.84	Africa
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
182	West Bank and Gaza	10621	78	3752	6791	152	2	0	0.73	35.33	2.08	8916	1705	19.12	Eastern Mediterranean
183	Western Sahara	10	1	8	1	0	0	0	10.00	80.00	12.50	10	0	0.00	Africa
184	Yemen	1691	483	833	375	10	4	36	28.56	49.26	57.98	1619	72	4.45	Eastern Mediterranean
185	Zambia	4552	140	2815	1597	71	1	465	3.08	61.84	4.97	3326	1226	36.86	Africa
186	Zimbabwe	2704	36	542	2126	192	2	24	1.33	20.04	6.64	1713	991	57.85	Africa

187 rows × 15 columns

In [11]:
```
df.head()
```

Out[11]:

	Country/Region	Confirmed	Deaths	Recovered	Active	New cases	New deaths	New recovered	Deaths / 100 Cases	Recovered / 100 Cases	Deaths / 100 Recovered	Confirmed last week	1 week change	1 week % increase	WHO Region
0	Afghanistan	36263	1269	25198	9796	106	10	18	3.50	69.49	5.04	35526	737	2.07	Eastern Mediterranean
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4	Angola	950	41	242	667	18	1	0	4.32	25.47	16.94	749	201	26.84	Africa

2. Check the Null values in the Dataset :

In [20]:
```
x = df.isnull().sum()
```

In [21]:
```
print("Null values in the Dataset :",x)
```

```
Null values in the Dataset : 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
```

3. Find the Number of Unique countries :

In [22]:
```
def nunique(data):
    return len(set(list(data)))
n = nunique(df['Country/Region'])
print("Number of Unique countries :",n)
```

```
Number of Unique countries : 187
```

4. Which Country is having Maximum Confirmed Cases :

In [23]:
```
x = []
b = len(df["Confirmed"])
for i in df["Confirmed"]:
    x.append(i)
a = max(x)
for i in range(b):
    if(df["Confirmed"][i]==a):
        print(df["Country/Region"][i],':',df["Confirmed"][i])
```

```
US : 4290259
```

5. Which Country is having Maximum Death Cases :

In [25]:
```
a = []
b = len(df["Deaths"])
for i in df["Deaths"]:
    a.append(i)
c = max(a)
for i in range(b):
    if(df["Deaths"][i]==c):
        print(df["Country/Region"][i],':',df["Deaths"][i])
```

```
US : 148011
```

6. What are the Average Cases in a Country ?

In [26]:
```
sum1 = df["Confirmed"].sum()

length = len(df["Country/Region"])

print("Average Cases :",sum1/length,)
```

```
Average Cases : 88130.935828877
```

7. What is the Total number of Deaths as per the Dataset ?

In [27]:
```
total = df["Deaths"].sum()

print("Total number of Death cases as per the Dataset :",total)
```

```
Total number of Death cases as per the Dataset : 654036
```

8. What is the Total number of Confirmed Cases as per the Dataset ?

In [19]:
```
total_1 = df["Confirmed"].sum()

print("Total number of Confirmed cases as per the Dataset :" , total_1)
```

```
Total number of Confirmed cases as per the Dataset : 16480485
```