Covid analysis

In [3]: import pandas as pd

Loading the dataset

In [33]: df = pd.read_csv('country_vaccinations.csv')
 df.head()

	ui.neau()							
Out[33]:		country	iso_code	date	total_vaccinations	people_vaccinated	people_fully_vacc	
	0	Afghanistan	AFG	2021-02-22	0.0	0.0		
	1	Afghanistan	AFG	2021-02-23	NaN	NaN		
	2	Afghanistan	AFG	2021-02-24	NaN	NaN		
	3	Afghanistan	AFG	2021-02-25	NaN	NaN		
	4	Afghanistan	AFG	2021-02-26	NaN	NaN		

1.Dealing with the null values

```
In [34]: # learning about the dataset
         print('Gaining Information from the dataset
                                                               : ' , df.info())
         print('\n')
         print('Describing the dataset
                                                               : ' , df.describe
         print('\n')
         print('Length of the dataset
                                                               : ' , len(df))
         print('\n')
         print('Size of the entire dataset
                                                               : ' , df.size)
         print('\n')
         print('Shape of the dataset
                                                               : ',df.shape )
         print('\n')
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 86512 entries, 0 to 86511
```

Data columns (total 15 columns): Column Non-Null Count Dtype ----------0 country 86512 non-null object 1 iso code 86512 non-null object 2 date 86512 non-null object 3 total vaccinations 43607 non-null float64 4 41294 non-null float64 people vaccinated 5 people fully vaccinated 38802 non-null float64 35362 non-null 6 daily vaccinations raw float64 7 daily_vaccinations 86213 non-null float64 8 total vaccinations per hundred 43607 non-null float64 9 people vaccinated per hundred 41294 non-null float64 people fully vaccinated per hundred 38802 non-null 10 float64 11 daily vaccinations per million 86213 non-null float64 12 vaccines 86512 non-null object 13 source name 86512 non-null object 14 source website 86512 non-null object dtypes: float64(9), object(6) memory usage: 9.9+ MB

Gaining Information from the dataset None

	bing the dataset people vaccinated	: people fully vaccinated	\	total_vaccin
count 04 mean 07 std 07 min 00 25% 05 50% 06 75% 06 max 09	4.360700e+04	4.129400e+04		3.880200e+
	4.592964e+07	1.770508e+07		1.413830e+
	2.246004e+08	7.078731e+07		5.713920e+
	0.000000e+00	0.000000e+00		1.000000e+
	5.264100e+05	3.494642e+05		2.439622e+
	3.590096e+06	2.187310e+06		1.722140e+
	1.701230e+07	9.152520e+06		7.559870e+
	3.263129e+09	1.275541e+09		1.240777e+
	daily vaccinations	raw daily vaccinations	\	

```
3.536200e+04
count
                                      8.621300e+04
                 2.705996e+05
                                      1.313055e+05
mean
```

std min 25% 50% 75% max	0.000000e+00 0 4.668000e+03 9 2.530900e+04 7 1.234925e+05 4	7.682388e+05 0.000000e+00 0.000000e+02 7.343000e+03 1.409800e+04 2.242429e+07
d /	total_vaccinations_per_hundred	<pre>people_vaccinated_per_hundre</pre>
d \ count	43607.000000	41294.00000
0 mean	80.188543	40.92731
7 std	67.913577	29.29075
9 min	0.000000	0.00000
0 25%	16.050000	11.37000
0 50%	67.520000	41.43500
0 75%	132.735000	67.91000
0 max	345.370000	124.76000
0		
millior	<pre>people_fully_vaccinated_per_hun</pre>	ndred daily_vaccinations_per_
count 3.00006	38802.00	00000 8621
mean	35.52	23243 325
7.04915 std	28.37	76252 393
4.31244 min		00000
0.00000 25%		20000 63
6.00000 50%	0 31.75	50000 205
0.00006 75%	0 62.08	30000 468
2.00000 max	0 122.37	70000 11749
7.00000		
Length	of the dataset	: 86512

Size of the entire dataset : 1297680

Shape of the dataset : (86512, 15)

```
In [35]: # for total null values in the entire dataset
total_null = df.isnull().sum().sum()
```

In [36]: print(df.isnull().sum()) 0 country iso code 0 0 date total_vaccinations 42905 people vaccinated 45218 people_fully_vaccinated 47710 daily_vaccinations_raw 51150 daily_vaccinations 299 total vaccinations per hundred 42905 people_vaccinated_per_hundred 45218 people_fully_vaccinated_per_hundred 47710 daily vaccinations per million 299 0 vaccines 0 source name source_website 0 dtype: int64

2. Filling the null values with 0

In [37]: df = df.fillna(0)

Out[37]:

	country	iso_code	date	total_vaccinations	people_vaccinated	people_fully_
0	Afghanistan	AFG	2021-02-22	0.0	0.0	
1	Afghanistan	AFG	2021-02-23	0.0	0.0	
2	Afghanistan	AFG	2021-02-24	0.0	0.0	
3	Afghanistan	AFG	2021-02-25	0.0	0.0	
4	Afghanistan	AFG	2021-02-26	0.0	0.0	
86507	Zimbabwe	ZWE	2022-03-25	8691642.0	4814582.0	
86508	Zimbabwe	ZWE	2022-03-26	8791728.0	4886242.0	
86509	Zimbabwe	ZWE	2022-03-27	8845039.0	4918147.0	
86510	Zimbabwe	ZWE	2022-03-28	8934360.0	4975433.0	
86511	Zimbabwe	ZWE	2022-03-29	9039729.0	5053114.0	

86512 rows × 15 columns

```
In [38]: # rechecking if the dataset contains null values or not
         df.isnull().sum()
Out[38]: country
                                                  0
         iso code
                                                  0
         date
                                                  0
         total vaccinations
                                                  0
         people vaccinated
         people fully vaccinated
                                                  0
         daily_vaccinations_raw
                                                  0
         daily vaccinations
                                                  0
         total_vaccinations_per_hundred
                                                  0
         people_vaccinated_per hundred
                                                  0
         people fully vaccinated per hundred
                                                  0
         daily vaccinations per million
                                                  0
                                                  0
         vaccines
                                                  0
         source_name
                                                  0
         source website
         dtype: int64
```

In [39]: $df = df.to_csv('F:\desktop folders\python files (ETG)\projects\Weets$