

## COVID-19 VACHINE ANALYSIS:

### DEVELOPMENT PART 1:

CODE:

```
import pandas as pd
```

```
import numpy as np
```

```
data=pd.read_csv('country_vaccinations.csv')
```

```
data.head()
```

```
=====
```

	country	iso_code	...	source_name	source_website
0	Afghanistan	AFG	...	World Health Organization	<a href="https://covid19.who.int/">https://covid19.who.int/</a>
1	Afghanistan	AFG	...	World Health Organization	<a href="https://covid19.who.int/">https://covid19.who.int/</a>
2	Afghanistan	AFG	...	World Health Organization	<a href="https://covid19.who.int/">https://covid19.who.int/</a>
3	Afghanistan	AFG	...	World Health Organization	<a href="https://covid19.who.int/">https://covid19.who.int/</a>
4	Afghanistan	AFG	...	World Health Organization	<a href="https://covid19.who.int/">https://covid19.who.int/</a>

```
[5 rows x 15 columns]
```

```
data.info()
```

```
<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	people_vaccinated	41294 non-null	float64
5	people_fully_vaccinated	38802 non-null	float64
6	daily_vaccinations_raw	35362 non-null	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
10	people_fully_vaccinated_per_hundred	38802 non-null	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

**print (data.describe())**

	total_vaccinations	...	daily_vaccinations_per_million
count	4.360700e+04	...	86213.000000
mean	4.592964e+07	...	3257.049157
std	2.246004e+08	...	3934.312440
min	0.000000e+00	...	0.000000
25%	5.264100e+05	...	636.000000
50%	3.590096e+06	...	2050.000000
75%	1.701230e+07	...	4682.000000
max	3.263129e+09	...	117497.000000

[8 rows x 9 columns]

**print (data.isnull())**

	country	iso_code	date	...	vaccines	source_name	source_website
0	False	False	False	...	False	False	False
1	False	False	False	...	False	False	False
2	False	False	False	...	False	False	False
3	False	False	False	...	False	False	False
4	False	False	False	...	False	False	False
...	...	...	...	...	...	...	...
86507	False	False	False	...	False	False	False
86508	False	False	False	...	False	False	False
86509	False	False	False	...	False	False	False
86510	False	False	False	...	False	False	False
86511	False	False	False	...	False	False	False

[86512 rows x 15 columns]