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In [13]: import numpy as np
```

```
In [14]: import pandas as pd
```

```
In [15]: import matplotlib.pyplot as plt
```

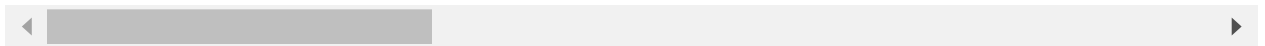
```
In [16]: dataset = pd.read_csv(r'C:\Users\Dell\dsbda\covid_vaccine_statewise.csv')
```

```
In [17]: dataset.head()
```

Out[17]:

	Updated On	State	Total Doses Administered	Sessions	Sites	First Dose Administered	Second Dose Administered	Male (Doses Administered)
0	16/01/2021	India	48276.0	3455.0	2957.0	48276.0	0.0	NaN
1	17/01/2021	India	58604.0	8532.0	4954.0	58604.0	0.0	NaN
2	18/01/2021	India	99449.0	13611.0	6583.0	99449.0	0.0	NaN
3	19/01/2021	India	195525.0	17855.0	7951.0	195525.0	0.0	NaN
4	20/01/2021	India	251280.0	25472.0	10504.0	251280.0	0.0	NaN

5 rows × 24 columns

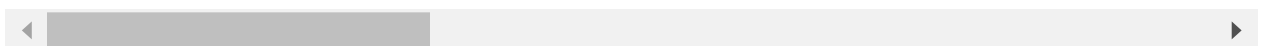


```
In [18]: dataset.tail()
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Out[18]:

	Updated On	State	Total Doses Administered	Sessions	Sites	First Dose Administered	Second Dose Administered	Male (Doses Administered)
7840	11/08/2021	West Bengal	NaN	NaN	NaN	NaN	NaN	NaN
7841	12/08/2021	West Bengal	NaN	NaN	NaN	NaN	NaN	NaN
7842	13/08/2021	West Bengal	NaN	NaN	NaN	NaN	NaN	NaN
7843	14/08/2021	West Bengal	NaN	NaN	NaN	NaN	NaN	NaN
7844	15/08/2021	West Bengal	NaN	NaN	NaN	NaN	NaN	NaN

5 rows × 24 columns

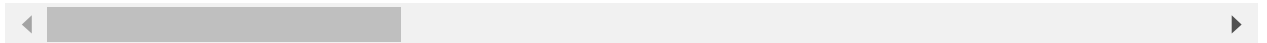


In [19]: `dataset.describe()`

Out[19]:

	Total Doses Administered	Sessions	Sites	First Dose Administered	Second Dose Administered	Male (Doses Administered)	Adm
<b>count</b>	7.621000e+03	7.621000e+03	7621.000000	7.621000e+03	7.621000e+03	7.461000e+03	7.46
<b>mean</b>	9.188171e+06	4.792358e+05	2282.872064	7.414415e+06	1.773755e+06	3.620156e+06	3.16
<b>std</b>	3.746180e+07	1.911511e+06	7275.973730	2.995209e+07	7.570382e+06	1.737938e+07	1.51
<b>min</b>	7.000000e+00	0.000000e+00	0.000000	7.000000e+00	0.000000e+00	0.000000e+00	2.00
<b>25%</b>	1.356570e+05	6.004000e+03	69.000000	1.166320e+05	1.283100e+04	5.655500e+04	5.21
<b>50%</b>	8.182020e+05	4.547000e+04	597.000000	6.614590e+05	1.388180e+05	3.897850e+05	3.34
<b>75%</b>	6.625243e+06	3.428690e+05	1708.000000	5.387805e+06	1.166434e+06	2.735777e+06	2.56
<b>max</b>	5.132284e+08	3.501031e+07	73933.000000	4.001504e+08	1.130780e+08	2.701636e+08	2.39

8 rows × 22 columns



In [20]: `dataset['First Dose Administered'].value_counts()`

Out[20]:

1824.0	7
807.0	7
2780.0	6
7304.0	6
19870.0	4
..	
253299.0	1
185565.0	1
2808898.0	1
21575079.0	1
2378841.0	1

Name: First Dose Administered, Length: 7367, dtype: int64

In [21]: `dataset['Second Dose Administered'].value_counts()`

Out[21]:

0.0	1048
107.0	8
674.0	6
37259.0	6
35326.0	5
...	
436628.0	1
724912.0	1
62169.0	1
762611.0	1
39421.0	1

Name: Second Dose Administered, Length: 6275, dtype: int64

```
In [32]: dataset['Male (Doses Administered)'].value_counts()
```

```
Out[32]: 623.0      7
         1410.0     7
         745.0      6
         3984.0     6
         588.0      6
         ..
        12973.0     1
        3819136.0    1
        16402.0     1
        3668946.0    1
        3926414.0    1
        Name: Male (Doses Administered), Length: 7170, dtype: int64
```

```
In [33]: dataset['Female (Doses Administered)'].value_counts()
```

```
Out[33]: 414.0      8
         184.0      7
         2035.0     6
         3320.0     6
         6889.0     5
         ..
        18840891.0    1
        552348.0     1
        339640.0     1
        197680.0     1
        17326.0      1
        Name: Female (Doses Administered), Length: 7155, dtype: int64
```

```
In [ ]:
```