```
import pandas as pd


df = pd.read_csv('https://drive.google.com/uc?export=download&id=1pCBCSEcPjDk-5kOlYF2yUM1ttEGABTB_')
df = df[["State", 'First Dose Administered', 'Second Dose Administered', 'Male (Doses Administered)', 'Female (Doses Administered)']]


df.describe()
```

	First Dose Administered	Second Dose Administered	Male (Doses Administered)	Female (Doses Administered)
count	7.621000e+03	7.621000e+03	7.461000e+03	7.461000e+03
mean	7.414415e+06	1.773755e+06	3.620156e+06	3.168416e+06
std	2.995209e+07	7.570382e+06	1.737938e+07	1.515310e+07
min	7.000000e+00	0.000000e+00	0.000000e+00	2.000000e+00
25%	1.166320e+05	1.283100e+04	5.655500e+04	5.210700e+04
50%	6.614590e+05	1.388180e+05	3.897850e+05	3.342380e+05
75%	5.387805e+06	1.166434e+06	2.735777e+06	2.561513e+06
max	4.001504e+08	1.130780e+08	2.701636e+08	2.395186e+08

```
doses_by_state = df.groupby('State')


print('Number of persons state wise vaccinated for first dose in India:')
doses_by_state['First Dose Administered'].sum()
```

```
Number of persons state wise vaccinated for first dose in India:
State
Andaman and Nicobar Islands                1.642585e+07
Andhra Pradesh                             1.232861e+09
Arunachal Pradesh                          4.900498e+07
Assam                                      5.856002e+08
Bihar                                      1.470503e+09
Chandigarh                                 4.470310e+07
Chhattisgarh                               7.960029e+08
Dadra and Nagar Haveli and Daman and Diu   3.359506e+07
Delhi                                      6.243395e+08
Goa                                        7.599137e+07
Gujarat                                    2.131646e+09
Haryana                                    7.557984e+08
Himachal Pradesh                           3.162940e+08
India                                      2.826214e+10
Jammu and Kashmir                          4.101018e+08
Jharkhand                                  6.036737e+08
Karnataka                                  1.873330e+09
Kerala                                     1.193845e+09
Ladakh                                     1.780925e+07
Lakshadweep                                4.363655e+06
Madhya Pradesh                             1.796605e+09
Maharashtra                                2.784364e+09
Manipur                                    6.740957e+07
Meghalaya                                  6.261597e+07
Mizoram                                    4.787308e+07
Nagaland                                   4.241077e+07
Odisha                                     1.032633e+09
Puducherry                                 4.134686e+07
Punjab                                     5.843466e+08
Rajasthan                                  2.201044e+09
Sikkim                                     3.698093e+07
Tamil Nadu                                 1.288533e+09
Telangana                                  8.803206e+08
Tripura                                    1.926897e+08
Uttar Pradesh                              2.788411e+09
Uttarakhand                                3.631914e+08
West Bengal                                1.796450e+09
Name: First Dose Administered, dtype: float64
```

```
print('Number of persons state wise vaccinated for second dose in India:')
doses_by_state['Second Dose Administered'].sum()
```

```
Number of persons state wise vaccinated for second dose in India:
State
Andaman and Nicobar Islands                4.118554e+06
Andhra Pradesh                             3.588176e+08
```

```
Arunachal Pradesh                             1.193232e+07
Assam                                         1.307888e+08
Bihar                                         2.707906e+08
Chandigarh                                    1.159374e+07
Chhattisgarh                                  1.721204e+08
Dadra and Nagar Haveli and Daman and Diu      4.594416e+06
Delhi                                         1.882189e+08
Goa                                           1.619817e+07
Gujarat                                       6.004184e+08
Haryana                                       1.586561e+08
Himachal Pradesh                              7.383858e+07
India                                         6.759621e+09
Jammu and Kashmir                             8.595165e+07
Jharkhand                                     1.221211e+08
Karnataka                                     4.271872e+08
Kerala                                        3.640488e+08
Ladakh                                        5.453762e+06
Lakshadweep                                   1.056446e+06
Madhya Pradesh                                3.169330e+08
Maharashtra                                   7.128811e+08
Manipur                                       1.185815e+07
Meghalaya                                     1.216663e+07
Mizoram                                       9.998418e+06
Nagaland                                      9.204637e+06
Odisha                                        2.513028e+08
Puducherry                                    8.608859e+06
Punjab                                        1.211210e+08
Rajasthan                                     4.917030e+08
Sikkim                                        9.723640e+06
Tamil Nadu                                    2.906706e+08
Telangana                                     1.981529e+08
Tripura                                       6.527014e+07
Uttar Pradesh                                 5.544351e+08
Uttarakhand                                   1.000850e+08
West Bengal                                   5.861469e+08
Name: Second Dose Administered, dtype: float64
```

```
males_vaccinated = df['Male (Doses Administered)'].sum()
print('Number of males vaccinated:', males_vaccinated)

females_vaccinated = df['Female (Doses Administered)'].sum()
print('Number of females vaccinated:', females_vaccinated)
```

```
Number of males vaccinated: 27009983996.0
Number of females vaccinated: 23639554465.0
```