import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

from google.colab import files
uploaded = files.upload()

Choose Files covid\_vacci...tatewise.csv

• covid\_vaccine\_statewise.csv(text/csv) - 1108819 bytes, last modified: 5/2/2023 - 100% done Saving covid\_vaccine\_statewise.csv to covid\_vaccine\_statewise (1).csv

df = pd.read\_csv('covid\_vaccine\_statewise.csv')

df.describe()

C→

	Total Doses Administered	Sessions	Sites	First Dose Administered	Second Dose Administered	Male (Doses Administered)	Female (Doses Administered)	Transgender (Doses Administered)	Covaxin (Doses Administered)	Covi Adminis
count	7.621000e+03	7.621000e+03	7621.000000	7.621000e+03	7.621000e+03	7.461000e+03	7.461000e+03	7461.000000	7.621000e+03	7.6210
mean	9.188171e+06	4.792358e+05	2282.872064	7.414415e+06	1.773755e+06	3.620156e+06	3.168416e+06	1162.978019	1.044669e+06	8.1265
std	3.746180e+07	1.911511e+06	7275.973730	2.995209e+07	7.570382e+06	1.737938e+07	1.515310e+07	5931.353995	4.452259e+06	3.2984
min	7.000000e+00	0.000000e+00	0.000000	7.000000e+00	0.000000e+00	0.000000e+00	2.000000e+00	0.000000	0.000000e+00	7.0000
25%	1.356570e+05	6.004000e+03	69.000000	1.166320e+05	1.283100e+04	5.655500e+04	5.210700e+04	8.000000	0.000000e+00	1.3313
50%	8.182020e+05	4.547000e+04	597.000000	6.614590e+05	1.388180e+05	3.897850e+05	3.342380e+05	113.000000	1.185100e+04	7.5673
75%	6.625243e+06	3.428690e+05	1708.000000	5.387805e+06	1.166434e+06	2.735777e+06	2.561513e+06	800.000000	7.579300e+05	6.0078
max	5.132284e+08	3.501031e+07	73933.000000	4.001504e+08	1.130780e+08	2.701636e+08	2.395186e+08	98275.000000	6.236742e+07	4.4682

8 rows × 22 columns



<class 'pandas.core.frame.DataFrame'>

```
RangeIndex: 7845 entries, 0 to 7844
Data columns (total 24 columns):
     Column
                                         Non-Null Count Dtype
                                         _____
    Updated On
                                         7845 non-null
                                                         object
    State
                                         7845 non-null
                                                         object
 1
    Total Doses Administered
                                         7621 non-null
                                                         float64
    Sessions
                                         7621 non-null
                                                        float64
 4
     Sites
                                         7621 non-null
                                                        float64
    First Dose Administered
                                         7621 non-null
                                                        float64
    Second Dose Administered
                                         7621 non-null
                                                        float64
    Male (Doses Administered)
                                         7461 non-null
                                                        float64
    Female (Doses Administered)
                                         7461 non-null
                                                        float64
 8
    Transgender (Doses Administered)
                                         7461 non-null
                                                        float64
    Covaxin (Doses Administered)
                                         7621 non-null
                                                        float64
 11 CoviShield (Doses Administered)
                                         7621 non-null
                                                         float64
 12 Sputnik V (Doses Administered)
                                         2995 non-null
                                                        float64
 13 AEFI
                                         5438 non-null
                                                         float64
                                                        float64
 14 18-44 Years (Doses Administered)
                                         1702 non-null
 15 45-60 Years (Doses Administered)
                                         1702 non-null
                                                         float64
 16 60+ Years (Doses Administered)
                                         1702 non-null
                                                        float64
 17 18-44 Years(Individuals Vaccinated)
                                         3733 non-null
                                                         float64
 18 45-60 Years(Individuals Vaccinated)
                                         3734 non-null
                                                         float64
 19 60+ Years(Individuals Vaccinated)
                                         3734 non-null
                                                         float64
 20 Male(Individuals Vaccinated)
                                         160 non-null
                                                         float64
 21 Female(Individuals Vaccinated)
                                         160 non-null
                                                         float64
 22 Transgender(Individuals Vaccinated)
                                         160 non-null
                                                         float64
 23 Total Individuals Vaccinated
                                         5919 non-null
                                                        float64
dtypes: float64(22), object(2)
memory usage: 1.4+ MB
```

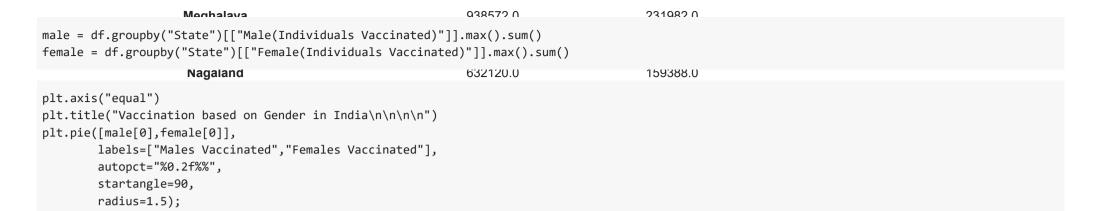
doses = df.groupby("State")[["First Dose Administered", "Second Dose Administered"]].max()

doses

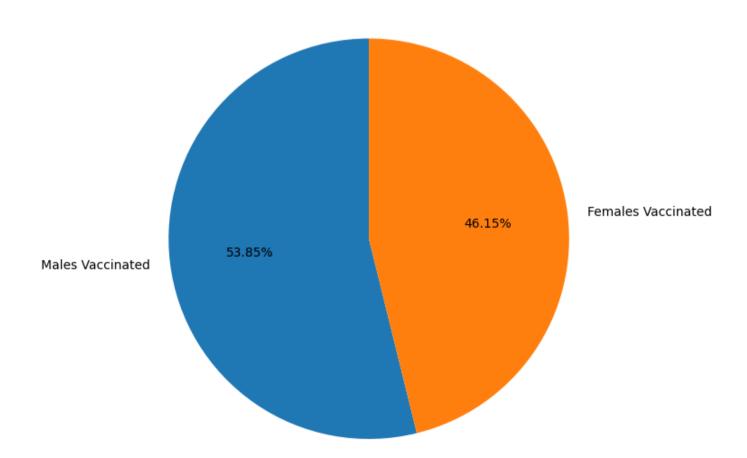


## State

Andaman and Nicobar Islands	216046.0	94597.0
Andhra Pradesh	17628583.0	6214312.0
Arunachal Pradesh	692475.0	186619.0
Assam	10495293.0	2208577.0
Bihar	23350171.0	4484768.0
Chandigarh	700285.0	223534.0
Chhattisgarh	9181482.0	2587695.0
Dadra and Nagar Haveli and Daman and Diu	584370.0	80851.0
Delhi	7835546.0	3000536.0
Goa	1094392.0	302519.0
Gujarat	28101222.0	9051153.0
Haryana	10086831.0	2923550.0
Himachal Pradesh	4249849.0	1382592.0
India	400150406.0	113077994.0
Jammu and Kashmir	5318516.0	1489826.0
Jharkhand	8382280.0	1996014.0
Karnataka	25847691.0	7432852.0
Kerala	15670747.0	6426984.0
Ladakh	188699.0	70337.0
Lakshadweep	51156.0	17139.0
Madhya Pradesh	29723036.0	5733640.0
Maharashtra	35040812.0	12112554.0
Manipur	1159424.0	246694.0



## Vaccination based on Gender in India



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✓ 0s completed at 12:57 AM