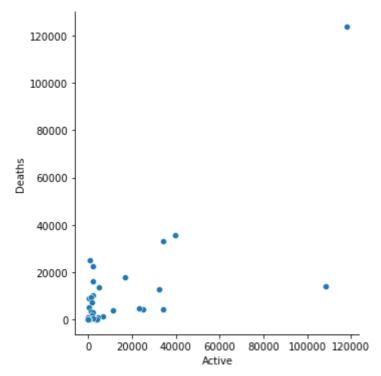
```
In [3]:
            import pandas as pd
            import numpy as np
            import seaborn as sns
            import matplotlib.pyplot as plt
In [30]:
            data=pd.read_csv(r"C:\Users\Sathish\Downloads\Latest Covid-19 India Status.csv")
In [31]:
            data.head()
                                                                       Active
                                                                                   Discharge
                                                                                                    Death
Out[31]:
                               Total
                State/UTs
                                              Discharged Deaths
                                      Active
                              Cases
                                                                     Ratio (%)
                                                                                    Ratio (%)
                                                                                                 Ratio (%)
              Maharashtra
                            6122893
                                     117869
                                                          123857
                                                                          1.93
                                                                                        96.05
                                                                                                      2.02
           0
                                                 5881167
           1
                    Kerala
                            3011694
                                     108400
                                                 2889186
                                                           14108
                                                                          3.60
                                                                                        95.93
                                                                                                      0.47
           2
                 Karnataka
                            2862338
                                      39626
                                                 2787111
                                                           35601
                                                                          1.38
                                                                                        97.37
                                                                                                      1.24
           3
               Tamil Nadu
                            2506848
                                                                                                      1.32
                                      34076
                                                 2439576
                                                           33196
                                                                          1.36
                                                                                        97.32
                   Andhra
                                                                                        97.63
                                                                                                      0.68
           4
                            1911231
                                      32356
                                                 1865956
                                                           12919
                                                                          1.69
                  Pradesh
In [32]:
            data.tail()
Out[32]:
                                                                                Active
                                                                                                    Death
                                            Total
                                                                                        Discharge
                                State/UTs
                                                           Discharged Deaths
                                                                                 Ratio
                                                                                                    Ratio
                                                   Active
                                            Cases
                                                                                         Ratio (%)
                                                                                   (%)
                                                                                                      (%)
           31
                                   Sikkim
                                            21573
                                                     1975
                                                                19287
                                                                          311
                                                                                  9.15
                                                                                             89.40
                                                                                                      1.44
           32
                                  Ladakh
                                            20143
                                                      183
                                                                19756
                                                                          204
                                                                                  0.91
                                                                                            98.08
                                                                                                      1.01
                Dadra and Nagar Haveli and
           33
                                            10576
                                                       38
                                                                10534
                                                                            4
                                                                                  0.36
                                                                                            99.60
                                                                                                      0.04
                           Daman and Diu
           34
                             Lakshadweep
                                             9965
                                                      246
                                                                 9670
                                                                           49
                                                                                   2.47
                                                                                            97.04
                                                                                                      0.49
           35
                     Andaman and Nicobar
                                             7491
                                                                          128
                                                                                                      1.71
                                                       14
                                                                 7349
                                                                                  0.19
                                                                                            98.10
In [33]:
            data.shape
           (36, 8)
Out[33]:
In [34]:
            data.columns
           Index(['State/UTs', 'Total Cases', 'Active', 'Discharged', 'Deaths',
Out[34]:
                    'Active Ratio (%)', 'Discharge Ratio (%)', 'Death Ratio (%)'],
                  dtype='object')
In [35]:
            data.isnull().sum()
          State/UTs
                                     0
Out[35]:
           Total Cases
                                     0
           Active
                                     0
           Discharged
```

Deaths 0
Active Ratio (%) 0
Discharge Ratio (%) 0
Death Ratio (%) 0
dtype: int64

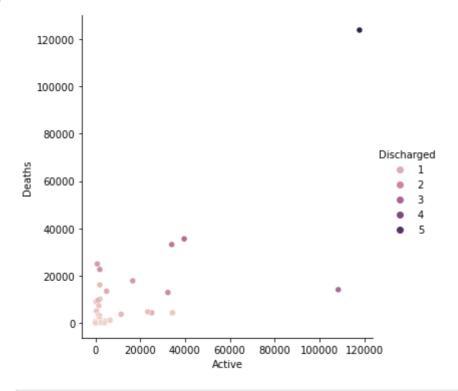
```
In [36]: sns.relplot(x="Active", y="Deaths", data=data)
```

```
Out[36]: <seaborn.axisgrid.FacetGrid at 0x1908ddd6b50>
```



```
In [37]: sns.relplot(x="Active", y="Deaths",hue='Discharged', data=data)
```

Out[37]: <seaborn.axisgrid.FacetGrid at 0x1908d963a30>

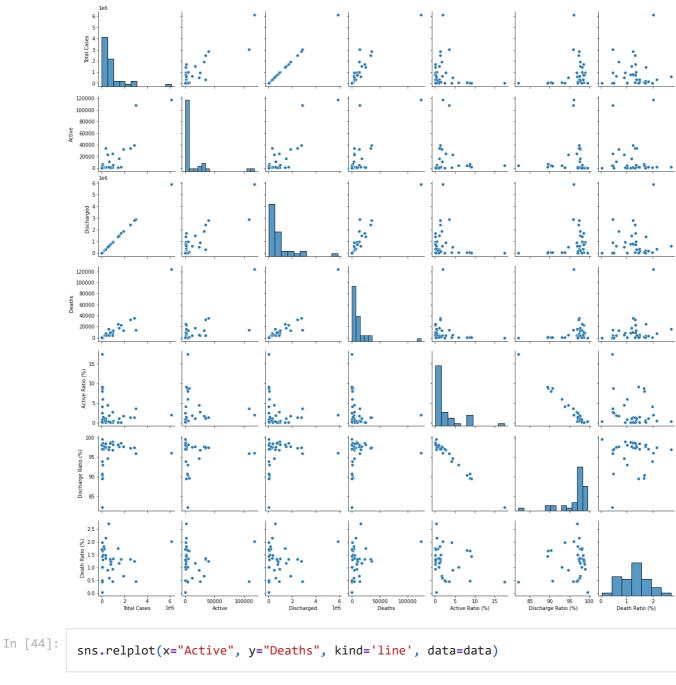


```
In [38]: data.columns
```

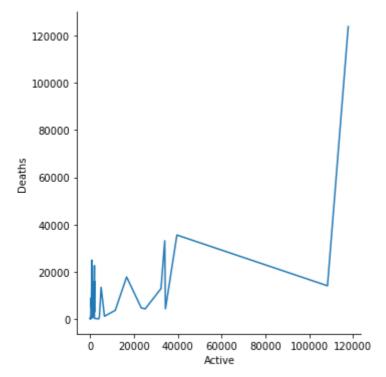
```
Out[38]: Index(['State/UTs', 'Total Cases', 'Active', 'Discharged', 'Deaths', 'Active Ratio (%)', 'Discharge Ratio (%)', 'Death Ratio (%)'],
                    dtype='object')
In [39]:
             sns.relplot(x="Active Ratio (%)", y="Death Ratio (%)", data=data)
            <seaborn.axisgrid.FacetGrid at 0x1908dfe7310>
               2.5
               2.0
            Death Ratio (%)
               1.5
               1.0
               0.5
               0.0
                    0.0
                            2.5
                                   5.0
                                           7.5
                                                  10.0
                                                         12.5
                                                                 15.0
                                                                        17.5
                                         Active Ratio (%)
In [40]:
             sns.relplot(x="Active Ratio (%)", y="Death Ratio (%)", hue="Discharge Ratio (%)", dat
Out[40]: <seaborn.axisgrid.FacetGrid at 0x1908e02e190>
               2.5
               2.0
            Death Ratio (%)
                                                                             Discharge Ratio (%)
                                                                                       84
               1.5
                                                                                       87
                                                                                       90
                                                                                        93
                                                                                        96
               0.5
               0.0
                            2.5
                                   5.0
                                                 10.0
                                                         12.5
                                                                15.0
                    0.0
                                          7.5
                                                                       17.5
                                        Active Ratio (%)
In [43]:
             sns.pairplot(data)
```

<seaborn.axisgrid.PairGrid at 0x1908e07b2b0>

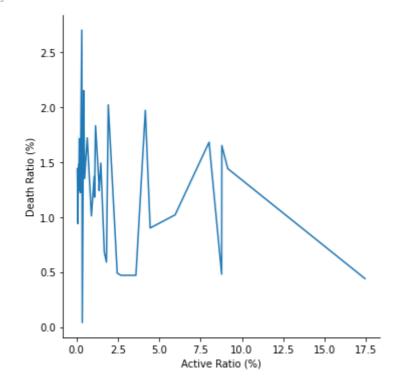
Out[43]:



Out[44]: <seaborn.axisgrid.FacetGrid at 0x1909017dd90>



Out[46]: <seaborn.axisgrid.FacetGrid at 0x190904d0be0>



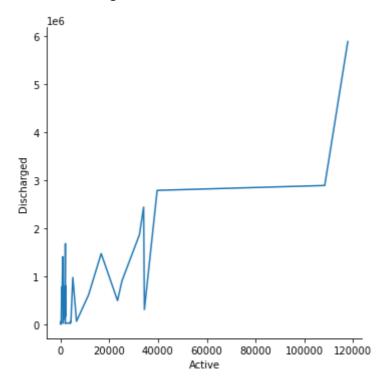
```
In [47]:
sns.relplot(x="Active Ratio (%)", y="Discharge Ratio (%)", kind='line', data=data)
```

Out[47]: <seaborn.axisgrid.FacetGrid at 0x19090500eb0>

```
100.0
     97.5
     95.0
Discharge Ratio (%)
     92.5
     90.0
     87.5
     85.0
     82.5
                                                                              17.5
             0.0
                       2.5
                                5.0
                                         7.5
                                                  10.0
                                                           12.5
                                                                    15.0
                                      Active Ratio (%)
```

```
In [49]: sns.relplot(x="Active", y="Discharged", kind='line', data=data)
```

Out[49]: <seaborn.axisgrid.FacetGrid at 0x19090eb4820>

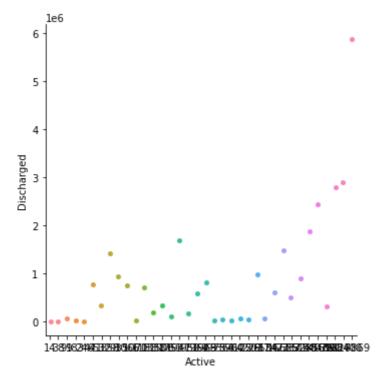


Out[52]: <seaborn.axisgrid.FacetGrid at 0x190904c9bb0>

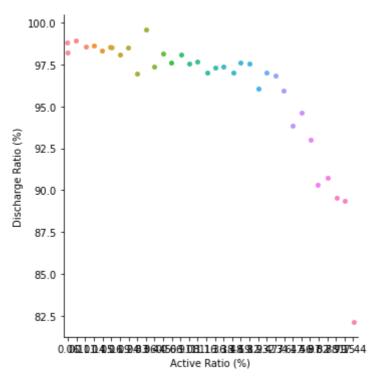
```
120000 - 100000 - 80000 - 40000 - 20000 - 20000 - 20000 - Active
```

```
In [53]: sns.catplot(x="Active", y="Discharged", data=data)
```

Out[53]: <seaborn.axisgrid.FacetGrid at 0x19090782910>

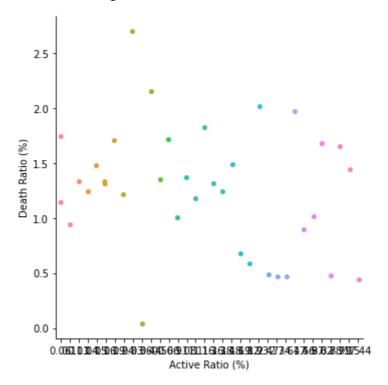


Out[55]: <seaborn.axisgrid.FacetGrid at 0x190920e8b80>



```
In [56]: sns.catplot(x="Active Ratio (%)", y="Death Ratio (%)", data=data)
```

Out[56]: <seaborn.axisgrid.FacetGrid at 0x190920cca00>



In []: