```
import seaborn as sns
         %matplotlib inline
In [ ]:
        crimes_df = pd.read_csv(r'C:\Users\Vipul Parashar\Desktop\Data Analyst\Data Sets for projects\crimes_against_work
         crimes_df
                                                                                     Assault on
                                                                                                            Cruelty
                                                                                                 Insult to
                                                                Kidnapping
                                                                                     women with
                                                                                                                by
                Unnamed:
                                                                            Dowry
                                                                                                 modesty
                                                                                                                    Importation
                             STATE/UT
                                          DISTRICT Year Rape
                                                                                        intent to
                                                                                                           Husband
                                                                       and
                                                                                                                        of Girls
                                                                            Deaths
                                                                                                      of
                                                                 Abduction
                                                                                     outrage her
                                                                                                             or his
                                                                                                 Women
                                                                                       modesty
                                                                                                           Relatives
                              ANDHRA
             0
                       0
                                          ADILABAD 2001
                                                            50
                                                                        30
                                                                                16
                                                                                                               175
                                                                                                                             0
                                                                                            149
                                                                                                      34
                             PRADESH
                              ANDHRA
                       1
                                       ANANTAPUR 2001
                                                            23
                                                                        30
                                                                                 7
                                                                                            118
                                                                                                      24
                                                                                                                154
                                                                                                                             0
                             PRADESH
                              ANDHRA
             2
                       2
                                         CHITTOOR 2001
                                                            27
                                                                        34
                                                                                14
                                                                                            112
                                                                                                      83
                                                                                                                186
                                                                                                                             0
                             PRADESH
                              ANDHRA
             3
                       3
                                        CUDDAPAH 2001
                                                            20
                                                                        20
                                                                                17
                                                                                            126
                                                                                                      38
                                                                                                                57
                                                                                                                             0
                             PRADESH
                              ANDHRA
                                              EAST
             4
                       4
                                                    2001
                                                            23
                                                                        26
                                                                                12
                                                                                            109
                                                                                                      58
                                                                                                               247
                                                                                                                             0
                             PRADESH
                                         GODAVARI
         10672
                     832
                          Lakshadweep
                                       Lakshadweep
                                                    2014
                                                                         0
                                                                                 0
                                                                                              1
                                                                                                       2
                                                                                                                 0
                                                                                                                             0
                                              Total
         10673
                                                    2014
                                                                         0
                                                                                 0
                                                                                                       2
                                                                                                                 0
                                                                                                                             0
                     833
                          Lakshadweep
                                           District(s)
         10674
                                                                                 0
                                                                                             12
                     834
                                            Karaikal 2014
                                                              3
                                                                         1
                                                                                                       1
                                                                                                                 1
                                                                                                                             0
                            Puducherry
         10675
                     835
                            Puducherry
                                         Puducherry
                                                    2014
                                                              7
                                                                         6
                                                                                 1
                                                                                             20
                                                                                                       7
                                                                                                                 3
                                                                                                                             0
                                              Total
         10676
                     836
                                                             10
                                                                         7
                                                                                             32
                                                                                                       8
                                                                                                                 4
                                                                                                                             0
                                                    2014
                                                                                 1
                            Puducherry
                                           District(s)
        10677 rows × 11 columns
In [ ]: crimes df[['Rape']].value counts()
Out[]: Rape
         0
                  593
         1
                  395
         2
                  296
         3
                  249
         12
                  242
         153
                    1
         571
                    1
         572
                    1
         573
                    1
         5076
                    1
         Name: count, Length: 481, dtype: int64
         Data Preparation and Cleaning
In [ ]: #### Let's find out if any of the columns have any Null or missing values
         total null = crimes df.isna().sum()
         total null
Out[]: Unnamed: 0
                                                                     0
         STATE/UT
                                                                     0
         DISTRICT
                                                                     0
         Year
                                                                     0
         Rape
                                                                     0
         Kidnapping and Abduction
                                                                     0
         Dowry Deaths
                                                                     0
```

Assault on women with intent to outrage her modesty

Insult to modesty of Women

Importation of Girls

dtype: int64

Cruelty by Husband or his Relatives

import pandas as pd import numpy as np

import matplotlib.pyplot as plt

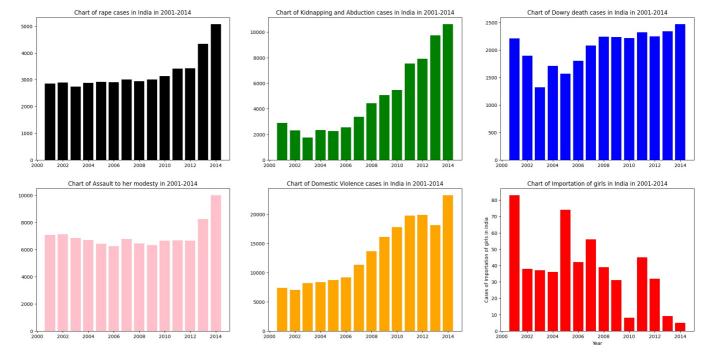
```
In []: crimes df[['Rape']].sum()
Out[]: Rape
                                   619158
                  dtype: int64
In [ ]: \# crimes df = pd.read csv(r'C:\Users\Vipul Parashar\Desktop\Data Analyst\Data Sets for projects\crimes against with the set <math>\# contains the set \# contains the set
                 #a = crimes_df.loc[['MADHYA PRADESH']]
                 \#a2 = a[['Rape']].sum()
                 #a2
In [ ]: crimes_df.drop(['DISTRICT', 'Unnamed: 0'], axis = 1, inplace=True)
In [ ]: crimes_df.rename( columns = {'Kidnapping and Abduction':'Kidnapping_Abduction','Dowry Deaths':'Dowry_Deaths',
                                                                                'Assault on women with intent to outrage her modesty':'Hurting of womens modesty',
                                                                                'Insult to modesty of Women':'Insult_to_womens_modesty',
                                                                                'Cruelty by Husband or his Relatives':'Domestic Cruelty'
                                                                                'Importation of Girls': 'Importation of Girls'}, inplace = True)
In [ ]: crimes df
Out[]:
                                   STATE/UT Year Rape Kidnapping_Abduction Dowry_Deaths Hurting_of_womens_modesty Insult_to_womens_modesty
                                      ANDHRA
                          0
                                                        2001
                                                                         50
                                                                                                                   30
                                                                                                                                               16
                                                                                                                                                                                                    149
                                                                                                                                                                                                                                                         34
                                    PRADESH
                                      ANDHRA
                                                        2001
                                                                                                                                                 7
                          1
                                                                         23
                                                                                                                   30
                                                                                                                                                                                                    118
                                                                                                                                                                                                                                                         24
                                    PRADESH
                                      ANDHRA
                                                        2001
                          2
                                                                                                                                               14
                                                                                                                                                                                                    112
                                                                                                                                                                                                                                                         83
                                                                         27
                                                                                                                   34
                                    PRADESH
                                      ANDHRA
                          3
                                                        2001
                                                                         20
                                                                                                                   20
                                                                                                                                                17
                                                                                                                                                                                                    126
                                                                                                                                                                                                                                                         38
                                    PRADESH
                                      ANDHRA
                                                        2001
                                                                                                                   26
                                                                                                                                                12
                                                                                                                                                                                                    109
                                                                         23
                                                                                                                                                                                                                                                         58
                                    PRADESH
                  10672 Lakshadweep 2014
                                                                                                                     0
                                                                                                                                                 0
                                                                                                                                                                                                                                                          2
                                                                          1
                                                                                                                                                                                                       1
                                                                                                                     0
                                                                                                                                                 0
                                                                                                                                                                                                                                                          2
                  10673 Lakshadweep 2014
                                                                          3
                  10674
                                   Puducherry 2014
                                                                                                                     1
                                                                                                                                                 0
                                                                                                                                                                                                      12
                                                                                                                                                                                                                                                           1
                  10675
                                   Puducherry 2014
                                                                           7
                                                                                                                     6
                                                                                                                                                  1
                                                                                                                                                                                                     20
                                                                                                                                                                                                                                                           7
                  10676
                                   Puducherry 2014
                                                                         10
                                                                                                                     7
                                                                                                                                                 1
                                                                                                                                                                                                      32
                                                                                                                                                                                                                                                          8
                 10677 rows × 9 columns
In [ ]:
                 Find the unique state
In [ ]: crimes df['STATE/UT'].unique()
Out[]: array(['ANDHRA PRADESH', 'ARUNACHAL PRADESH', 'ASSAM', 'BIHAR',
                                 'CHHATTISGARH', 'GOA', 'GUJARAT', 'HARYANA', 'HIMACHAL PRADESH',
'JAMMU & KASHMIR', 'JHARKHAND', 'KARNATAKA', 'KERALA',
'MADHYA PRADESH', 'MAHARASHTRA', 'MANIPUR', 'MEGHALAYA', 'MIZORAM',
'NAGALAND', 'ODISHA', 'PUNJAB', 'RAJASTHAN', 'SIKKIM',
                                  'TAMIL NADU', 'TRIPURA', 'UTTAR PRADESH', 'UTTARAKHAND'
                                  'WEST BENGAL', 'A & N ISLANDS', 'CHANDIGARH', 'D & N HAVELI',
                                 'DAMAN & DIU', 'DELHI', 'LAKSHADWEEP', 'PUDUCHERRY',
                                 'Andhra Pradesh', 'Arunachal Pradesh', 'Assam', 'Bihar'
                                 'Chhattisgarh', 'Goa', 'Gujarat', 'Haryana', 'Himachal Pradesh', 'Jammu & Kashmir', 'Jharkhand', 'Karnataka', 'Kerala', 'Madhya Pradesh', 'Maharashtra', 'Manipur', 'Meghalaya', 'Mizoram', 'Nagaland', 'Odisha', 'Punjab', 'Rajasthan', 'Sikkim',
                                  'Tamil Nadu', 'Tripura', 'Uttar Pradesh', 'Uttarakhand'
                                 'West Bengal', 'A&N Islands', 'Chandigarh', 'D&N Haveli', 'Daman & Diu', 'Delhi UT', 'Lakshadweep', 'Puducherry',
                                 'Telangana', 'A & N Islands'], dtype=object)
                 There are lots of repeated data . so we replace them with correct one
In [ ]: # Fist we will remove all the repeated uppercase values
                 def remove uppercase(r):
                         r = r['STATE/UT'].strip()
                          r = r.upper()
                 crimes df['STATE/UT'] = crimes df.apply(remove uppercase, axis=1)
```

```
#Now use replace function to replace the other type of repeated datas as dicussed above
crimes_df['STATE/UT'].replace("A&N ISLANDS", "A & N ISLANDS", inplace = True)
crimes_df['STATE/UT'].replace("D&N HAVELI", "D & N HAVELI", inplace = True)
crimes_df['STATE/UT'].replace("DELHI UT", "DELHI", inplace = True)

In []: len(crimes_df['STATE/UT'].unique())
Out[]: 36
```

## **Exploratory Analysis and Visualization**

```
In [ ]: #total population of women who has been a victim of the crime based on their gender.
        victims raped = crimes df.Rape.sum()
        victims kidnapped abducted = crimes df.Kidnapping Abduction.sum()
        dowery death = crimes df.Dowry Deaths.sum()
        modesty assault = crimes df.Hurting of womens modesty.sum()
        insult to modesty = crimes df.Insult to womens modesty.sum()
        domestic violence = crimes df.Domestic Cruelty.sum()
        girls imported = crimes df.Importation of Girls.sum()
In []: total population of victim overall = victims raped + victims raped + dowery death +modesty assault+ insult to mo
        total_population_of_victim_overall
Out[]: 5194570
In []: fig, axes = plt.subplots(2, 3, figsize=(25, 12))
        axes[0,0].set title("Chart of rape cases in India in 2001-2014")
        axes[0,0].bar(crimes_df.Year, crimes_df.Rape, color = 'black');
        plt.xlabel('Year') #X-axis
        plt.ylabel('Cases of Rape in India') #Y-axis
        axes[0,1].set title("Chart of Kidnapping and Abduction cases in India in 2001-2014")
        axes[0,1].bar(crimes df.Year , crimes df.Kidnapping Abduction , color = 'Green')
        plt.xlabel('Year')
        plt.ylabel('Case of Kidnapping & Abduction')
        axes[0,2].set title("Chart of Dowry death cases in India in 2001-2014")
        axes[0,2].bar(crimes_df.Year, crimes_df.Dowry_Deaths, color = 'blue');
        plt.xlabel('Year') #X-axis
        plt.ylabel('Cases of Dowry deaths in India') #Y-axis
        axes[1,0].set title("Chart of Assault to her modesty in 2001-2014")
        axes[1,0].bar(crimes df.Year, crimes df.Hurting of womens modesty, color = 'pink');
        plt.xlabel('Year') #X-axis
        plt.ylabel('Cases of Assaulting a women for her modesty in India') #Y-axis
        axes[1,1].set title("Chart of Domestic Violence cases in India in 2001-2014")
        axes[1,1].bar(crimes df.Year, crimes df.Domestic Cruelty, color = 'orange');
        plt.xlabel('Year') #X-axis
        plt.ylabel('Cases of Domestic Violence in India') #Y-axis
        axes[1,2].set title("Chart of Importation of girls in India in 2001-2014")
        axes[1,2].bar(crimes df.Year, crimes df.Importation of Girls, color = 'red');
        plt.xlabel('Year') #X-axis
        plt.ylabel('Cases of Importation of girls in India') #Y-axis
Out[]: Text(0, 0.5, 'Cases of Importation of girls in India')
```



In [ ]: counts\_df = crimes\_df.groupby('STATE/UT')[['Rape']].sum()
 counts\_df

Rape STATE/UT A & N ISLANDS 336 ANDHRA PRADESH 32150 **ARUNACHAL PRADESH** 1316 **ASSAM** 40190 **BIHAR** 30758 **CHANDIGARH** 770 CHHATTISGARH 29308 D & N HAVELI 132 **DAMAN & DIU DELHI** 20312 GOA 1062 GUJARAT 11644 HARYANA 17110 HIMACHAL PRADESH JAMMU & KASHMIR 7038 JHARKHAND 22826 KARNATAKA 15056 **KERALA** 20030 **LAKSHADWEEP** 20 MADHYA PRADESH 90996 MAHARASHTRA 48974 **MANIPUR** 1068 **MEGHALAYA** 2642 MIZORAM 2070 **NAGALAND** 562 **ODISHA** 30480 **PUDUCHERRY** 208 **PUNJAB** 14656 RAJASTHAN 45684 SIKKIM 570 TAMIL NADU 16660 **TELANGANA** 1958 **TRIPURA** 5060 UTTAR PRADESH 51150 UTTARAKHAND 3752

Out[ ]:

There are two things to be concluded from the above bar chart -

1) The cases have incraesed over the years.

WEST BENGAL 47876

2) 2014 has been the year, where violance against women was reported the maximum, under each of the cases.

```
In [ ]: crimes_df1=crimes_df.groupby('Year')[['STATE/UT']].count()
    crimes_df1
```

|      | · · · · · · · · · · · · · · · · · · · |
|------|---------------------------------------|
| Year |                                       |
| 2001 | 716                                   |
| 2002 | 719                                   |
| 2003 | 728                                   |
| 2004 | 729                                   |
| 2005 | 733                                   |
| 2006 | 740                                   |
| 2007 | 743                                   |
| 2008 | 761                                   |
| 2009 | 767                                   |
| 2010 | 779                                   |
| 2011 | 791                                   |
| 2012 | 811                                   |
| 2013 | 823                                   |
| 2014 | 837                                   |

STATE/UT

Out[]:

In [ ]: crimes\_df.drop(['Hurting\_of\_womens\_modesty', 'Insult\_to\_womens\_modesty'],axis=1 , inplace=True)

In [ ]: crimes\_df

| Out[ ]: |       | STATE/UT       | Year | Rape | Kidnapping_Abduction | Dowry_Deaths | Domestic_CrueIty | Importation_of_Girls |
|---------|-------|----------------|------|------|----------------------|--------------|------------------|----------------------|
|         | 0     | ANDHRA PRADESH | 2001 | 50   | 30                   | 16           | 175              | 0                    |
|         | 1     | ANDHRA PRADESH | 2001 | 23   | 30                   | 7            | 154              | 0                    |
|         | 2     | ANDHRA PRADESH | 2001 | 27   | 34                   | 14           | 186              | 0                    |
|         | 3     | ANDHRA PRADESH | 2001 | 20   | 20                   | 17           | 57               | 0                    |
|         | 4     | ANDHRA PRADESH | 2001 | 23   | 26                   | 12           | 247              | 0                    |
|         |       |                |      |      |                      |              |                  |                      |
|         | 10672 | LAKSHADWEEP    | 2014 | 1    | 0                    | 0            | 0                | 0                    |
|         | 10673 | LAKSHADWEEP    | 2014 | 1    | 0                    | 0            | 0                | 0                    |
|         | 10674 | PUDUCHERRY     | 2014 | 3    | 1                    | 0            | 1                | 0                    |
|         | 10675 | PUDUCHERRY     | 2014 | 7    | 6                    | 1            | 3                | 0                    |
|         | 10676 | PUDUCHERRY     | 2014 | 10   | 7                    | 1            | 4                | 0                    |

10677 rows × 7 columns

It gives us the conclusion that overall(cases under each category), from every state, has increased with time, not decreased.

```
In [ ]: # containing top highest rape case

max_rape_case = crimes_df.sort_values('Rape',ascending = False).head(15)
max_rape_case
```

| Out[ ]: |       | STATE/UT       | Year | Rape | Kidnapping_Abduction | Dowry_Deaths | Domestic_Cruelty | Importation_of_Girls |
|---------|-------|----------------|------|------|----------------------|--------------|------------------|----------------------|
|         | 10244 | MADHYA PRADESH | 2014 | 5076 | 5688                 | 733          | 6451             | 0                    |
|         | 9426  | MADHYA PRADESH | 2013 | 4335 | 2873                 | 776          | 4988             | 7                    |
|         | 10445 | RAJASTHAN      | 2014 | 3759 | 4421                 | 408          | 15905            | 0                    |
|         | 10595 | UTTAR PRADESH  | 2014 | 3467 | 10626                | 2469         | 10471            | 0                    |
|         | 10291 | MAHARASHTRA    | 2014 | 3438 | 2457                 | 279          | 7696             | 1                    |
|         | 8611  | MADHYA PRADESH | 2012 | 3425 | 1127                 | 743          | 3988             | 6                    |
|         | 7810  | MADHYA PRADESH | 2011 | 3406 | 1088                 | 811          | 3732             | 45                   |
|         | 9628  | RAJASTHAN      | 2013 | 3285 | 4047                 | 453          | 15094            | 1                    |
|         | 7025  | MADHYA PRADESH | 2010 | 3135 | 1030                 | 892          | 3756             | 5                    |
|         | 9472  | MAHARASHTRA    | 2013 | 3063 | 1874                 | 320          | 8542             | 0                    |
|         | 9760  | UTTAR PRADESH  | 2013 | 3050 | 9737                 | 2335         | 8781             | 0                    |
|         | 4735  | MADHYA PRADESH | 2007 | 3010 | 701                  | 742          | 3294             | 0                    |
|         | 6250  | MADHYA PRADESH | 2009 | 2998 | 841                  | 858          | 3983             | 1                    |
|         | 5485  | MADHYA PRADESH | 2008 | 2937 | 736                  | 805          | 3185             | 0                    |
|         | 3259  | MADHYA PRADESH | 2005 | 2921 | 604                  | 739          | 2989             | 3                    |

In [ ]: max\_importation\_case = crimes\_df.sort\_values('Importation\_of\_Girls',ascending = False).head(15)
max\_importation\_case

| Out[ ]: |      | STATE/UT       | Year | Rape | Kidnapping_Abduction | Dowry_Deaths | Domestic_CrueIty | Importation_of_Girls |
|---------|------|----------------|------|------|----------------------|--------------|------------------|----------------------|
|         | 115  | BIHAR          | 2001 | 888  | 518                  | 859          | 1558             | 83                   |
|         | 3013 | BIHAR          | 2005 | 1147 | 929                  | 1014         | 1574             | 74                   |
|         | 3597 | WEST BENGAL    | 2005 | 1686 | 1039                 | 446          | 6936             | 61                   |
|         | 3590 | WEST BENGAL    | 2005 | 148  | 97                   | 48           | 545              | 60                   |
|         | 4486 | BIHAR          | 2007 | 1555 | 1260                 | 1172         | 1635             | 56                   |
|         | 3005 | BIHAR          | 2005 | 28   | 4                    | 40           | 73               | 48                   |
|         | 7810 | MADHYA PRADESH | 2011 | 3406 | 1088                 | 811          | 3732             | 45                   |
|         | 3746 | BIHAR          | 2006 | 1232 | 1084                 | 1188         | 1689             | 42                   |
|         | 102  | BIHAR          | 2001 | 27   | 11                   | 90           | 152              | 39                   |
|         | 5378 | JHARKHAND      | 2008 | 791  | 499                  | 266          | 851              | 39                   |
|         | 831  | BIHAR          | 2002 | 1040 | 744                  | 927          | 1577             | 38                   |
|         | 1553 | BIHAR          | 2003 | 985  | 674                  | 909          | 1880             | 37                   |
|         | 2421 | JHARKHAND      | 2004 | 797  | 178                  | 275          | 588              | 36                   |
|         | 970  | JHARKHAND      | 2002 | 797  | 178                  | 275          | 588              | 36                   |
|         | 2281 | BIHAR          | 2004 | 1390 | 997                  | 1029         | 2679             | 35                   |

In [ ]: max\_dowry\_death = crimes\_df.sort\_values('Dowry\_Deaths' , ascending= False).head(5)
 max\_dowry\_death

| :[]: |       | STATE/UT      | Year | Rape | Kidnapping Abduction | Dowry Deaths | Domestic Cruelty | Importation of Girls |
|------|-------|---------------|------|------|----------------------|--------------|------------------|----------------------|
|      |       |               |      |      |                      |              |                  |                      |
|      | 10595 | UTTAR PRADESH | 2014 | 3467 | 10626                | 2469         | 10471            | 0                    |
|      | 9760  | UTTAR PRADESH | 2013 | 3050 | 9737                 | 2335         | 8781             | 0                    |
|      | 8132  | UTTAR PRADESH | 2011 | 2042 | 7525                 | 2322         | 7121             | 0                    |
|      | 8938  | UTTAR PRADESH | 2012 | 1963 | 7910                 | 2244         | 7661             | 0                    |
|      | 5796  | UTTAR PRADESH | 2008 | 1871 | 4439                 | 2237         | 8312             | 0                    |

We can see that the maximum Dowry death is in 2014 from the Uttar Predesh State with number of reports is 2469.

```
In [ ]: max_domestic_violance_cases = crimes_df.sort_values('Domestic_Cruelty', ascending = False).head(10)
    max_domestic_violance_cases
```

| Out[ ]: |       | STATE/UT       | Year | Rape | Kidnapping_Abduction | Dowry_Deaths | Domestic_CrueIty | Importation_of_Girls |
|---------|-------|----------------|------|------|----------------------|--------------|------------------|----------------------|
|         | 10640 | WEST BENGAL    | 2014 | 1466 | 4976                 | 501          | 23278            | 4                    |
|         | 8982  | WEST BENGAL    | 2012 | 2046 | 4168                 | 593          | 19865            | 12                   |
|         | 8172  | WEST BENGAL    | 2011 | 2363 | 3711                 | 510          | 19772            | 0                    |
|         | 9804  | WEST BENGAL    | 2013 | 1685 | 3830                 | 481          | 18116            | 9                    |
|         | 7381  | WEST BENGAL    | 2010 | 2311 | 2764                 | 507          | 17796            | 8                    |
|         | 6602  | WEST BENGAL    | 2009 | 2336 | 2187                 | 506          | 16112            | 5                    |
|         | 10445 | RAJASTHAN      | 2014 | 3759 | 4421                 | 408          | 15905            | 0                    |
|         | 9628  | RAJASTHAN      | 2013 | 3285 | 4047                 | 453          | 15094            | 1                    |
|         | 9050  | ANDHRA PRADESH | 2013 | 1635 | 1595                 | 492          | 15084            | 0                    |
|         | 5835  | WEST BENGAL    | 2008 | 2263 | 1907                 | 451          | 13663            | 5                    |

With our analysis the maximum domestic violance happened again in 2014 from West Bangal . total number of cases in 2001-2014 under each category, state wise.

| Out[]: R | Rape | Kidnapping_Abduct | tion [ | Dowry_Deaths | Domestic_CrueIty | Importation_ | _of_ | _Girls |
|----------|------|-------------------|--------|--------------|------------------|--------------|------|--------|
|----------|------|-------------------|--------|--------------|------------------|--------------|------|--------|

|                   | Rape  | Kidnapping_Abduction | Dowry_Deaths | Domestic_Cruelty | Importation_of_Girls |
|-------------------|-------|----------------------|--------------|------------------|----------------------|
| STATE/UT          |       |                      |              |                  |                      |
| A & N ISLANDS     | 336   | 212                  | 20           | 288              | 0                    |
| ANDHRA PRADESH    | 32150 | 34504                | 13844        | 280906           | 34                   |
| ARUNACHAL PRADESH | 1316  | 1470                 | 6            | 476              | 0                    |
| ASSAM             | 40190 | 62074                | 3268         | 115300           | 22                   |
| BIHAR             | 30758 | 57086                | 32206        | 69770            | 904                  |
| CHANDIGARH        | 770   | 1682                 | 90           | 2080             | 0                    |
| CHHATTISGARH      | 29308 | 11808                | 2758         | 23436            | 12                   |
| D & N HAVELI      | 132   | 224                  | 2            | 90               | 0                    |
| DAMAN & DIU       | 60    | 44                   | 6            | 76               | 0                    |
| DELHI             | 20312 | 46586                | 3758         | 42834            | 2                    |
| GOA               | 1062  | 640                  | 38           | 532              | 0                    |
| GUJARAT           | 11644 | 34670                | 1108         | 146468           | 0                    |
| HARYANA           | 17110 | 20016                | 7372         | 68414            | 4                    |
| HIMACHAL PRADESH  | 4674  | 4116                 | 112          | 7796             | 0                    |
| JAMMU & KASHMIR   | 7038  | 21164                | 294          | 5390             | 0                    |
| JHARKHAND         | 22826 | 14186                | 7896         | 23910            | 298                  |
| KARNATAKA         | 15056 | 16262                | 7016         | 72706            | 94                   |
| KERALA            | 20030 | 4452                 | 700          | 111626           | 0                    |
| LAKSHADWEEP       | 20    | 2                    | 0            | 14               | 0                    |
| MADHYA PRADESH    | 90996 | 35608                | 21090        | 102816           | 134                  |
| MAHARASHTRA       | 48974 | 30368                | 9696         | 193202           | 6                    |
| MANIPUR           | 1068  | 2606                 | 6            | 578              | 0                    |
| MEGHALAYA         | 2642  | 670                  | 36           | 460              | 8                    |
| MIZORAM           | 2070  | 30                   | 8            | 134              | 6                    |
| NAGALAND          | 562   | 190                  | 2            | 32               | 2                    |
| ODISHA            | 30480 | 25588                | 10782        | 49206            | 36                   |
| PUDUCHERRY        | 208   | 306                  | 56           | 234              | 0                    |
| PUNJAB            | 14656 | 15096                | 3524         | 30840            | 4                    |
| RAJASTHAN         | 45684 | 66278                | 11854        | 262200           | 14                   |
| SIKKIM            | 570   | 180                  | 4            | 108              | 0                    |
| TAMIL NADU        | 16660 | 30908                | 5060         | 45524            | 30                   |
| TELANGANA         | 1958  | 1422                 | 578          | 12738            | 0                    |
| TRIPURA           | 5060  | 2202                 | 752          | 16086            | 0                    |
| UTTAR PRADESH     | 51150 | 135906               | 57256        | 193738           | 6                    |
| UTTARAKHAND       | 3752  | 6484                 | 1974         | 9756             | 2                    |
| WEST BENGAL       | 47876 | 61158                | 12308        | 344124           | 254                  |

Q. Top 5 states, where maximum numbers of cases has been reported in TOTAL of 2001-2014, each category wise.

|   |                | Rape  | Kidnapping_Abduction | Dowry_Deaths | Domestic_Cruelty | Importation_of_Girls |
|---|----------------|-------|----------------------|--------------|------------------|----------------------|
|   | STATE/UT       |       |                      |              |                  |                      |
| Ī | MADHYA PRADESH | 90996 | 35608                | 21090        | 102816           | 134                  |
|   | UTTAR PRADESH  | 51150 | 135906               | 57256        | 193738           | 6                    |
|   | MAHARASHTRA    | 48974 | 30368                | 9696         | 193202           | 6                    |
|   | WEST BENGAL    | 47876 | 61158                | 12308        | 344124           | 254                  |
|   | RAJASTHAN      | 45684 | 66278                | 11854        | 262200           | 14                   |
|   | ASSAM          | 40190 | 62074                | 3268         | 115300           | 22                   |
|   | ANDHRA PRADESH | 32150 | 34504                | 13844        | 280906           | 34                   |
|   | BIHAR          | 30758 | 57086                | 32206        | 69770            | 904                  |
|   | ODISHA         | 30480 | 25588                | 10782        | 49206            | 36                   |
|   | CHHATTISGARH   | 29308 | 11808                | 2758         | 23436            | 12                   |

Madhya Pradesh has reported the highest number of rape cases in TOTAL in span of 2001-2014.

For Kidnapping case -

Out[]:

In [ ]: counts\_df1.sort\_values('Kidnapping\_Abduction',ascending=False).head(5) Out[ ]: Rape Kidnapping\_Abduction Dowry\_Deaths Domestic\_Cruelty Importation\_of\_Girls STATE/UT UTTAR PRADESH 51150 RAJASTHAN 45684 **ASSAM** 40190 WEST BENGAL 47876 **BIHAR** 30758 

## Uttar Pradesh has reported the highest number of Kidnapping Cases

| In [ ]: | counts_df1.sort_v        | alues(         | 'Dowry_Deaths',ascen | ding <b>=False).</b> he | ead(5)           |                      |
|---------|--------------------------|----------------|----------------------|-------------------------|------------------|----------------------|
| Out[ ]: |                          | Rape           | Kidnapping_Abduction | Dowry_Deaths            | Domestic_Cruelty | Importation_of_Girls |
|         | STATE/UT                 |                |                      |                         |                  |                      |
|         | UTTAR PRADESH            | 51150          | 135906               | 57256                   | 193738           | 6                    |
|         | BIHAR                    | 30758          | 57086                | 32206                   | 69770            | 904                  |
|         | MADHYA PRADESH           | 90996          | 35608                | 21090                   | 102816           | 134                  |
|         | ANDHRA PRADESH           | 32150          | 34504                | 13844                   | 280906           | 34                   |
|         | WEST BENGAL              | 47876          | 61158                | 12308                   | 344124           | 254                  |
| In [ ]: | counts_df1.sort_v        | alues(         | 'Importation_of_Girl | s',ascending=I          | False).head(5)   |                      |
| Out[ ]: |                          | Rape           | Kidnapping_Abduction | Dowry_Deaths            | Domestic_CrueIty | Importation_of_Girls |
|         | STATE/UT                 |                |                      |                         |                  |                      |
|         | BIHAR                    | 30758          | 57086                | 32206                   | 69770            | 904                  |
|         |                          |                |                      | 02200                   | 000              | 304                  |
|         | JHARKHAND                | 22826          | 14186                | 7896                    | 23910            | 298                  |
|         | JHARKHAND<br>WEST BENGAL |                | 14186<br>61158       |                         |                  |                      |
|         |                          | 47876          |                      | 7896                    | 23910            | 298                  |
|         | WEST BENGAL              | 47876<br>90996 | 61158                | 7896<br>12308           | 23910<br>344124  | 298<br>254           |

| Out[ ]: |                | Rape  | Kidnapping_Abduction | Dowry_Deaths | Domestic_Cruelty | Importation_of_Girls |
|---------|----------------|-------|----------------------|--------------|------------------|----------------------|
|         | STATE/UT       |       |                      |              |                  |                      |
|         | UTTAR PRADESH  | 51150 | 135906               | 57256        | 193738           | 6                    |
|         | BIHAR          | 30758 | 57086                | 32206        | 69770            | 904                  |
|         | MADHYA PRADESH | 90996 | 35608                | 21090        | 102816           | 134                  |
|         | ANDHRA PRADESH | 32150 | 34504                | 13844        | 280906           | 34                   |
|         | WEST BENGAL    | 47876 | 61158                | 12308        | 344124           | 254                  |

Once again Uttar Pradesh has reported the highest number of Dowry death also

Madhya Pradesh who has maximun cases reported in both categories i.e Rape and Importation of girls .

2335

8781

0

## CONCLUSION

1 UTTAR PRADESH 2013 3050

## By Analysing these data we concluded that

1) In 2014 ,the highest crime were reported under all the categories

9737

2) We found the top highest cases reported ever Where Madhya Pradesh having highest number of cases of rape in 2014,

Uttar Pradesh having highest cases in Dowry death in 2014, West Bengal having highest cases in Domestic Violance in 2014 and Bihar having the highest cases in importaion of girls in 2011.

3)We also merged the data in two different cases.

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