Hackathon Crimes In India

Vaibhavee Pulgam, Shivam Lalakiya
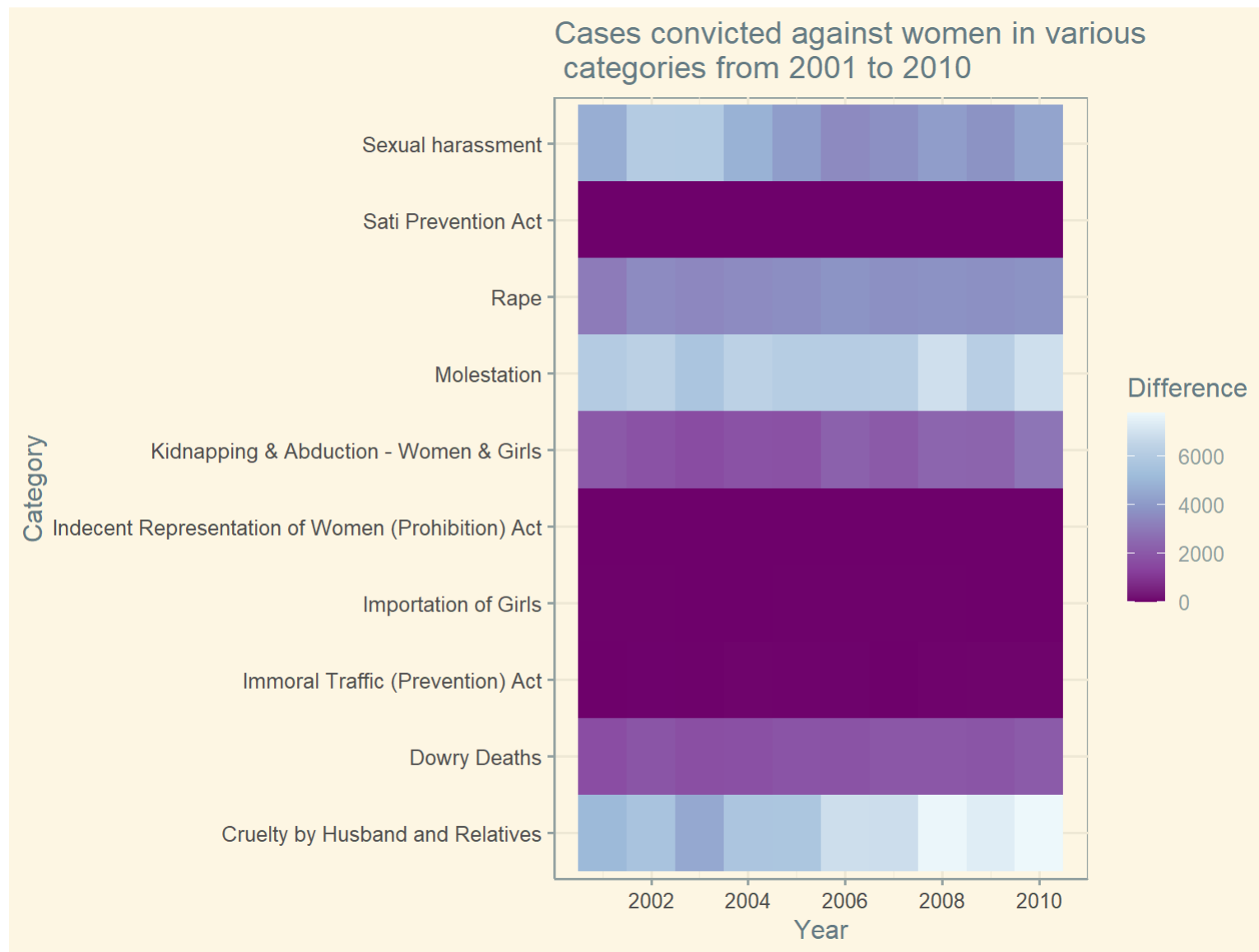
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INTRODUCTION AND PROBLEM STATEMENT

With the crime rate of 44.43%, and annual increment of 1.6% India stands at 71th rank according to the recent ranking of 2022. This data set is published by National Crime Records Bureau (NCRB), Govt of India provided for this hackathon challenge, we decided get the overview of the dataset and understand which are the most crimes happening in the India from year 2001. From this dataset we are particular aiming for the states that have most crime rates, according the gender who are most victims and also according to the age.

Using this data set from NCRB we found some amazing and shocking insides. In the data set "Human Rights violation against the Police" we found that the Illegal Arrest and the Terrorist violations have been increased from the 2000 to 2010. In the "Specific reason for kidnapping and abduction" data set we found the most common things and the known/ generous insights, also valid insights such as female mostly did kidnapping for the illegal marriage whereas male did most of the kidnapping for the prostitution purpose. Most shocking results that we found from the data set "Trial of violent crimes by courts" over the years the trails took place in the courts were less in for the most violent crimes and were more for the crimes such riots. Riots are basically gathering of people for an illegal purpose and which had more trails than any other crimes.

In the last section for cases convicted and reported against the women, we made a plotting over the years from 2000 to 2010 and we found that sexual harassment against the women has been the same there's not been a 1% of decrease in the crime rather it has been increased over the years.

1. CASES RELATED TO WOMEN

Q.1 How women have been victims over the years from 2000 to 2010? What are the major violence females have suffered in this years?
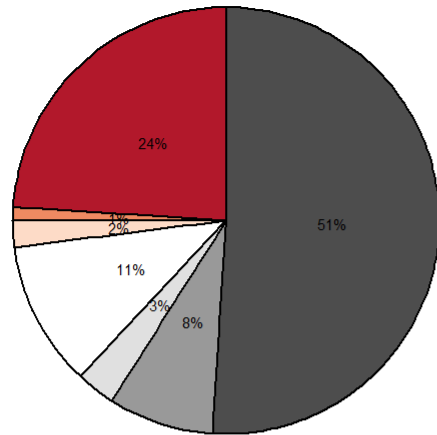
Cases convicted against women in various categories from 2001 to 2010
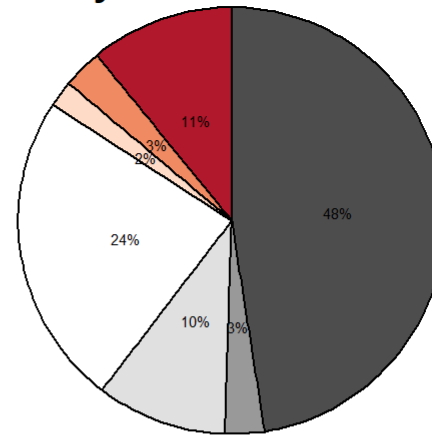

Conclusion :

From this chart we see that females have mostly been victim because the cruelty by husband and relatives over the years. This heat map represents the category of violence that are faced by the women from 2000 to 2010. We can also see that the importation of girls, immoral traffic (prevention) act, indecent representation of women(prohibited) act, sati prevention act has not changed in this years.

Q.2 Top 3 states in India in which violence rate against the women is more than other states
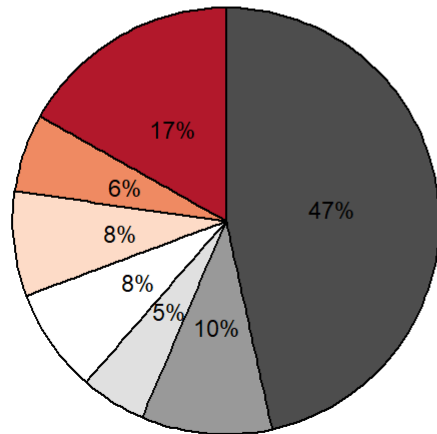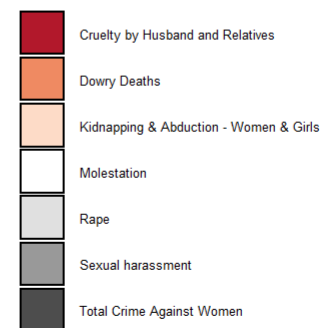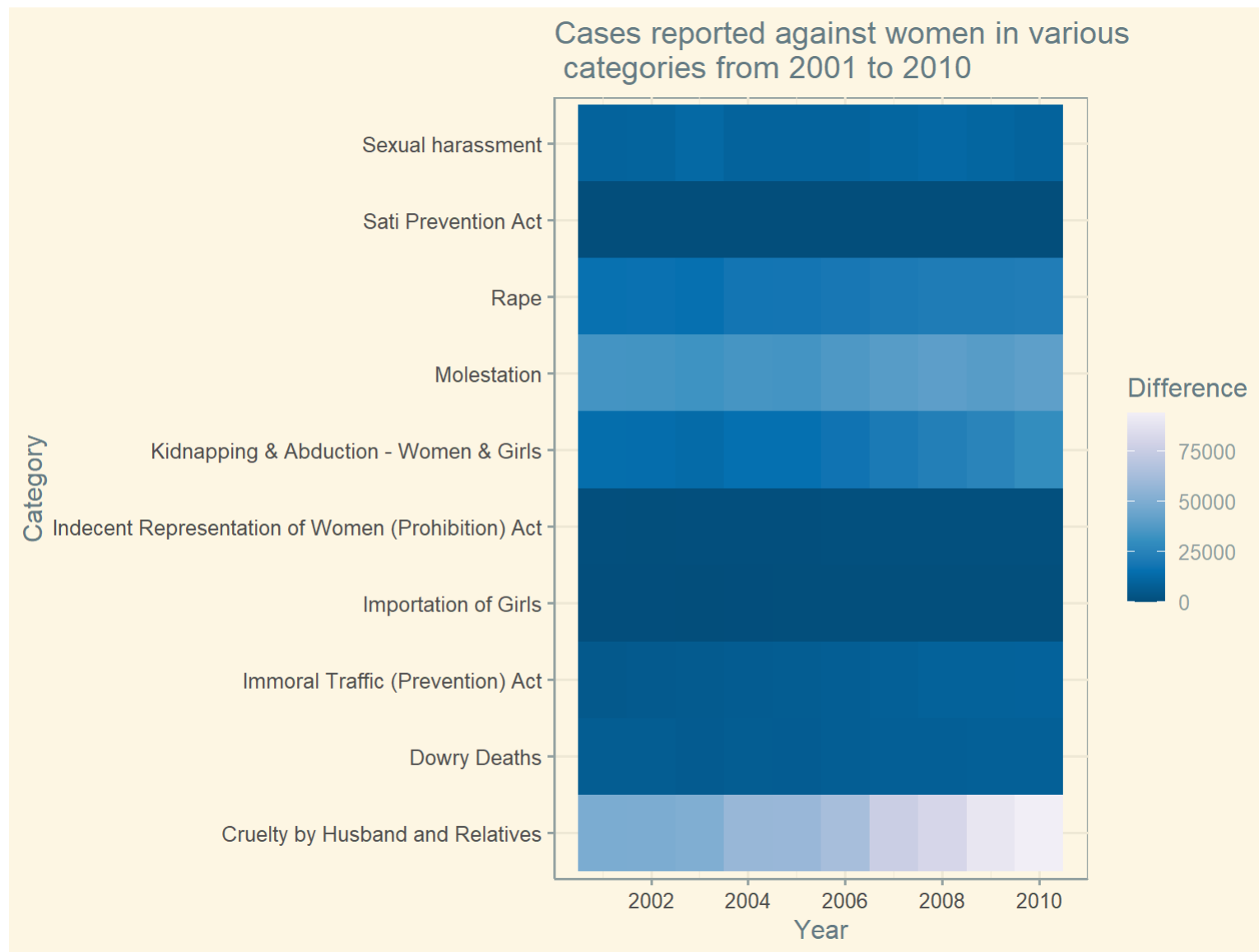
Andhra Pradesh

Madhya Pradesh

Uttar Pradesh

Category

- Cruelty by Husband and Relatives
- Dowry Deaths
- Kidnapping & Abduction - Women & Girls
- Molestation
- Rape
- Sexual harassment
- Total Crime Against Women

Top 3 states with highest crime rate

Conclusion : From the above pie chart we can say that the overall crime against the women is more in Andhra Pradesh is more as compare to other state with a percentage of 51% crime rate. In Uttar Pradesh state there are more number of sexual harassment i.e 10 % compare to other states.

Q.3 In which cases females have not been found not guilty/ have been charged for causing violence ?

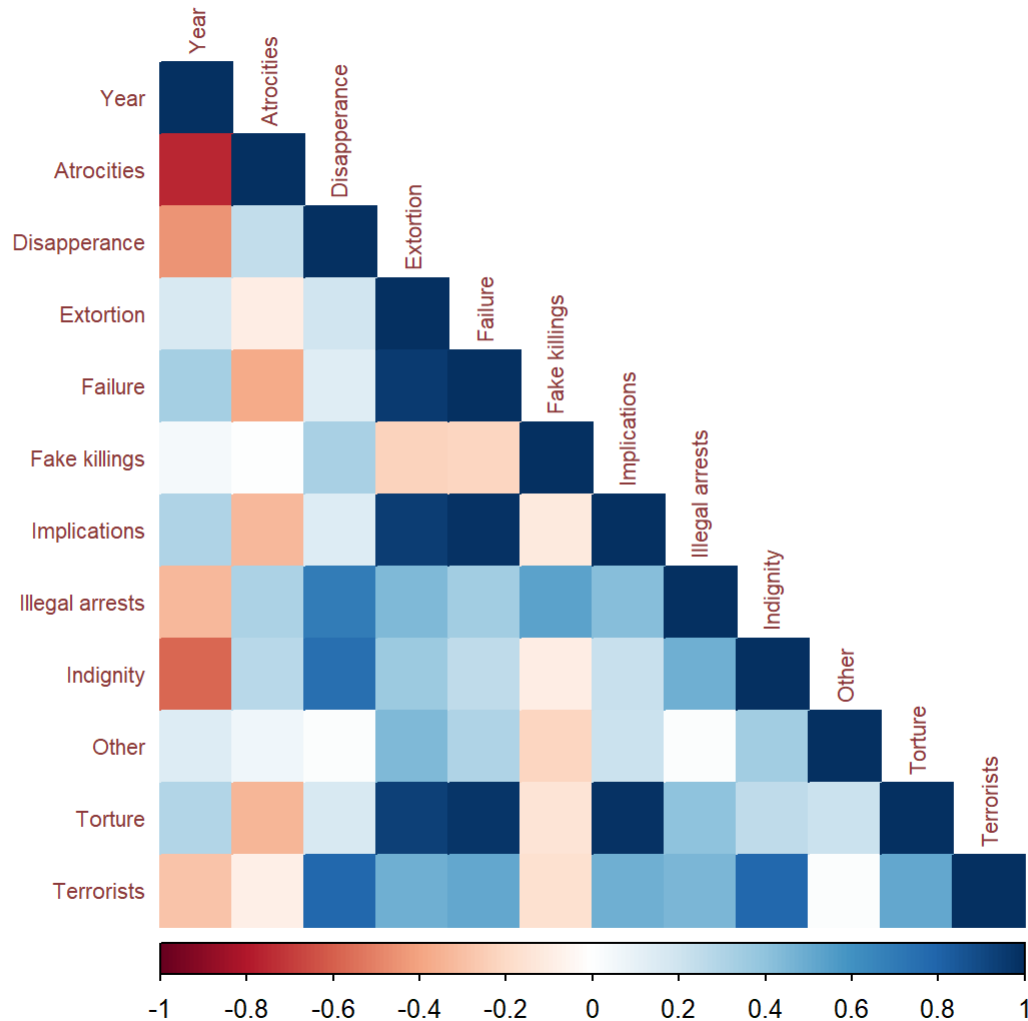Cases reported against women in various categories from 2001 to 2010

Conclusion : From the above heat map we can say the sexual harassment, dowry deaths, immoral traffic(prevention) act, importation of girls, indecent representation of women(prohibition) and sati prevention act have been the least cases that are reported against women. One thing which is common from the question 1 is that cruelty by husband and relatives are mostly suffered by females but also they are the ones who have been part of this crime over the years.

VIOLATION CAUSED BY THE PUBLIC AND TRAILS TAKEN FOR THE VIOLATIONS

Q.4 How people have violated the country's peace by causing violence in the country?
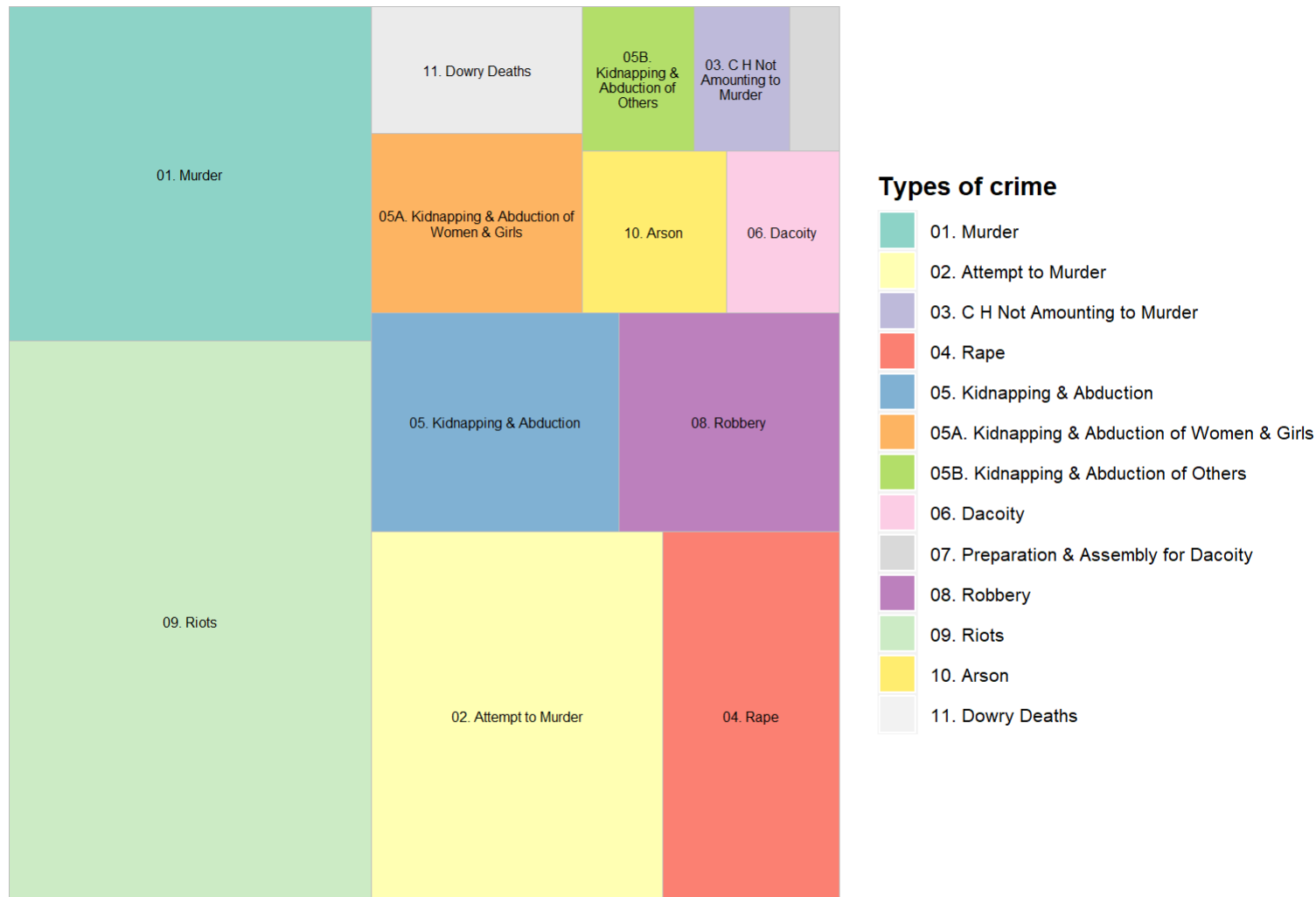
Cases Registered under Human Rights Violations

Conclusion: From the correlation of two variable, we can determine the connection or mutual relation between two. Here we can observe that terrorism and year has negative correlation coefficient hence system is working good to mitigate the terrorism; we can also see that terrorism lead to higher numbers of illegal arrests as both of them have positive correlation.

Q.5 How many trails have taken place in the court for causing violence in the country?
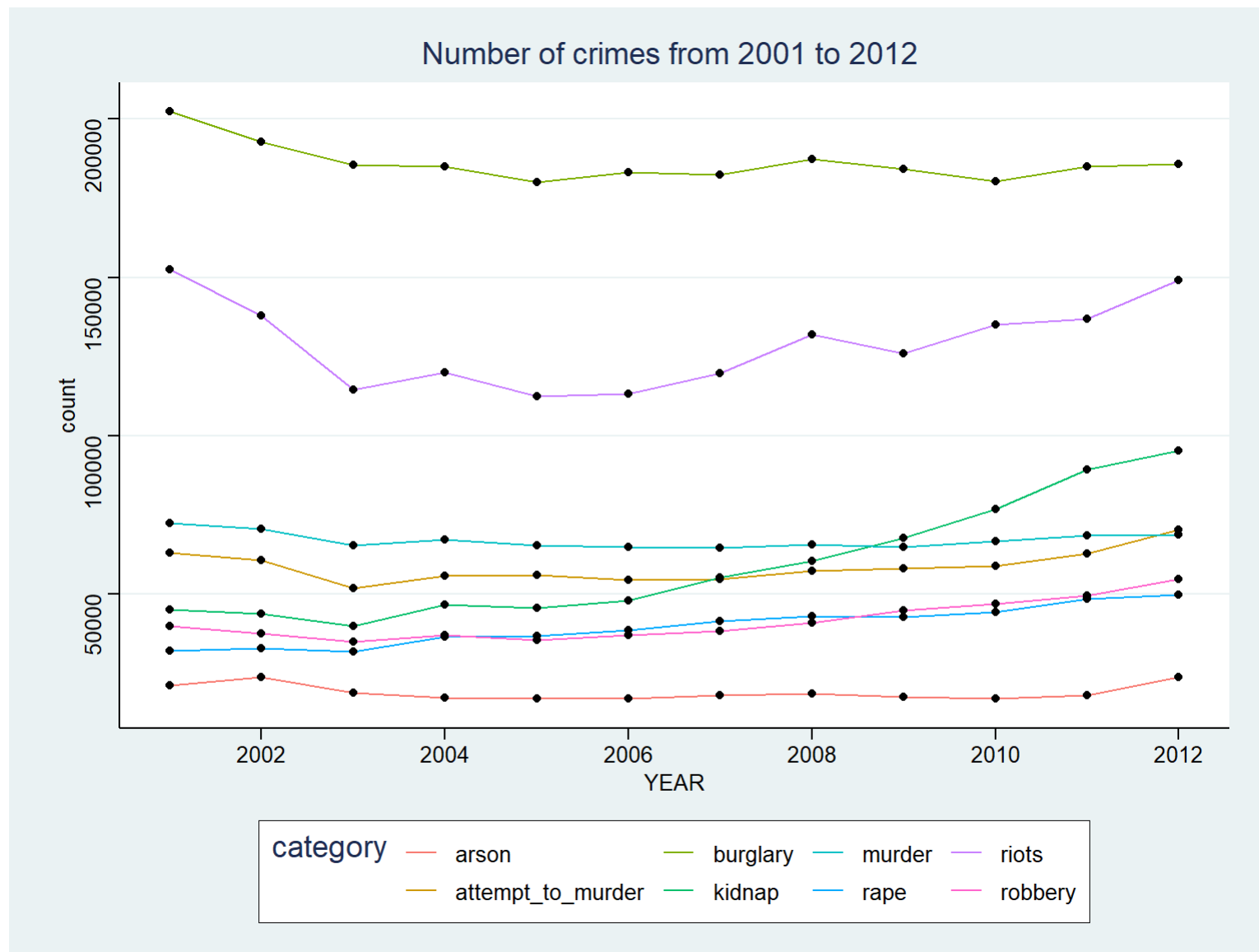
Different Kind of Trails
2001 to 2010

Types of crime

▨	01. Murder
▨	02. Attempt to Murder
▨	03. C H Not Amounting to Murder
▨	04. Rape
▨	05. Kidnapping & Abduction
▨	05A. Kidnapping & Abduction of Women & Girls
▨	05B. Kidnapping & Abduction of Others
▨	06. Dacoity
▨	07. Preparation & Assembly for Dacoity
▨	08. Robbery
▨	09. Riots
▨	10. Arson
▨	11. Dowry Deaths

Conclusion : While looking at the types of the crimes, the riots have been the one who have gone to the trails most in the court where as kidnapping and abduction of others have been the counted in the least. Also we can see that attempt to murder and the murder have been the second for the trails in the court.
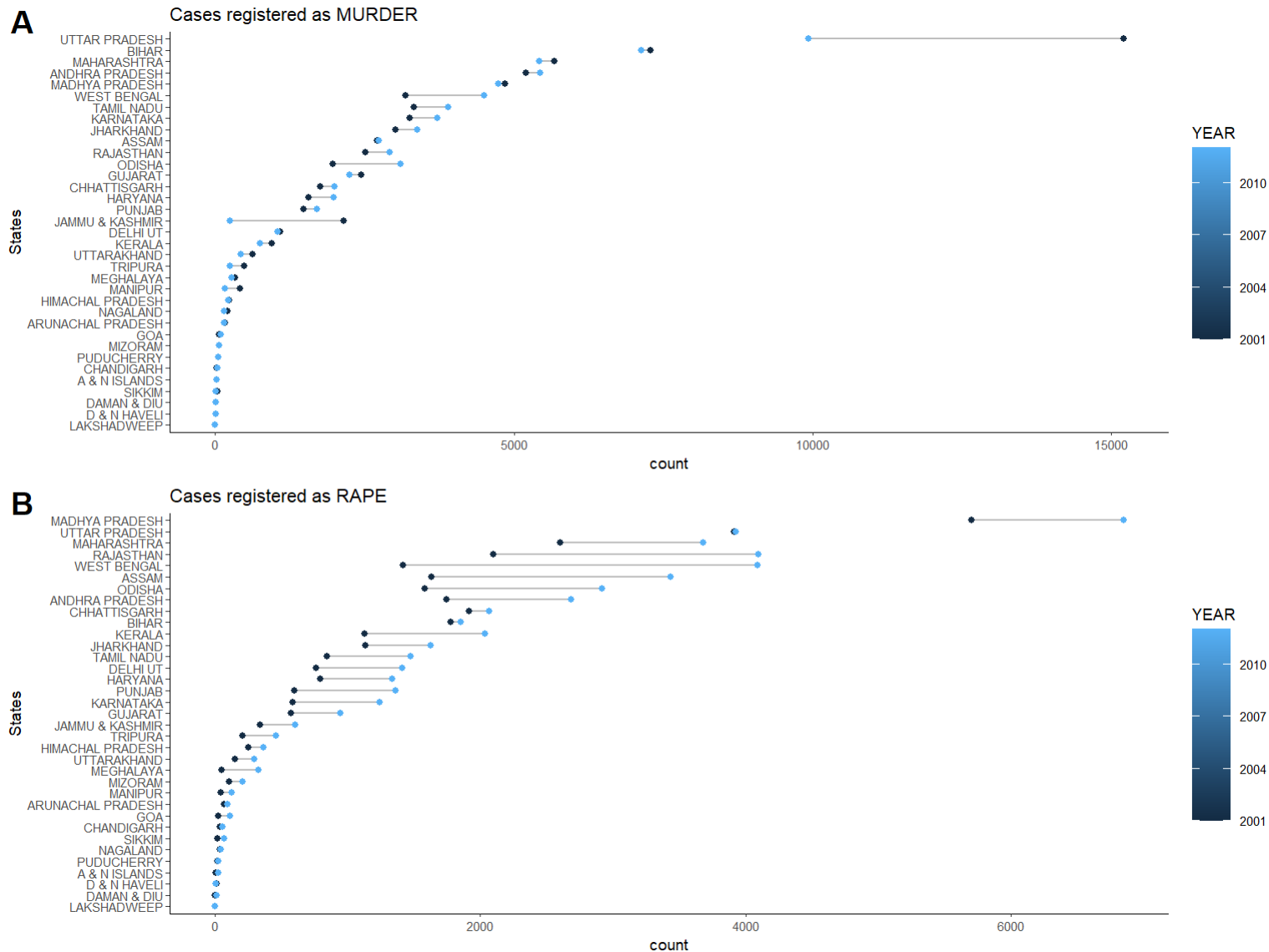
CRIMES TAKEN PLACE FROM 2000 TO 2010.

Q.6 How the crime rate has been increased over the years in India?

Number of crimes from 2001 to 2012

category — arson — burglary — murder — riots
— attempt_to_murder — kidnap — rape — robbery

Conclusion: One interesting insight we can get from this chart is that murder have almost same number of cases over the year. The number crimes as burglary have been at top from 2000 and is still same till 2012. At a point the riots decreased from 2000 to 2003 but later it increased gradually for the following years.
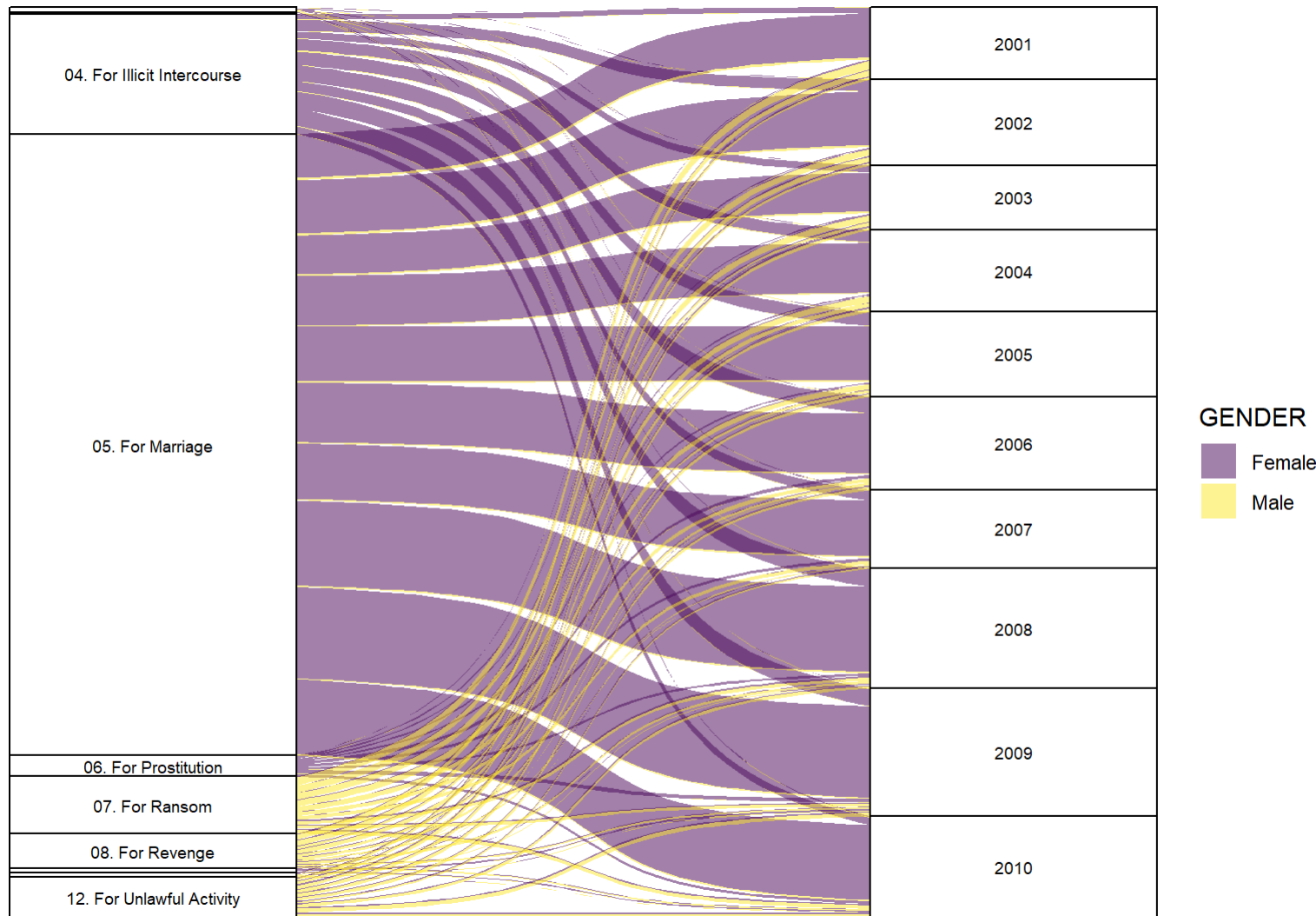
Q.7 Which states have been affected most for murder and rape in India?

A Cases registered as MURDER

B Cases registered as RAPE

Conclusion : Here we have plotted the dumbbell plot for the 2 scenario i.e for murder and rape cases. Here we can see that for the murder cases there has been more cases in 2001 and decreased over the years, whereas in rape cases there has been increase in cases from 2001 to 2012. We can also make observation that in West Bengal there are less cases in murder and more cases in rape.

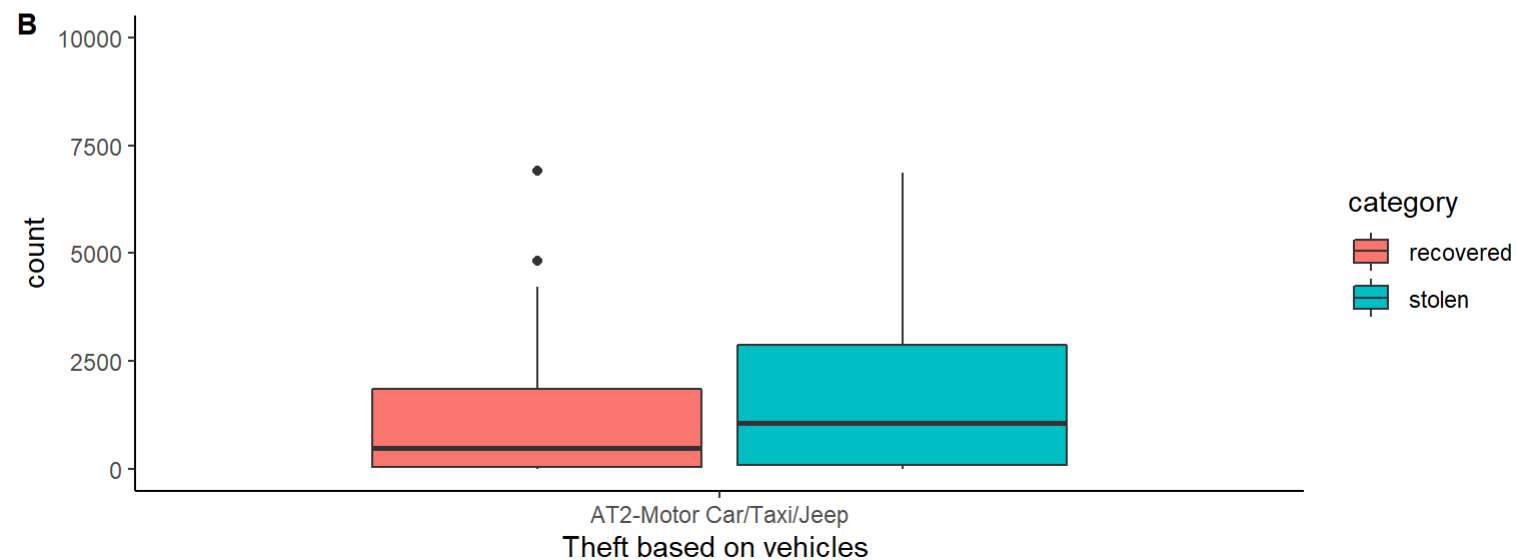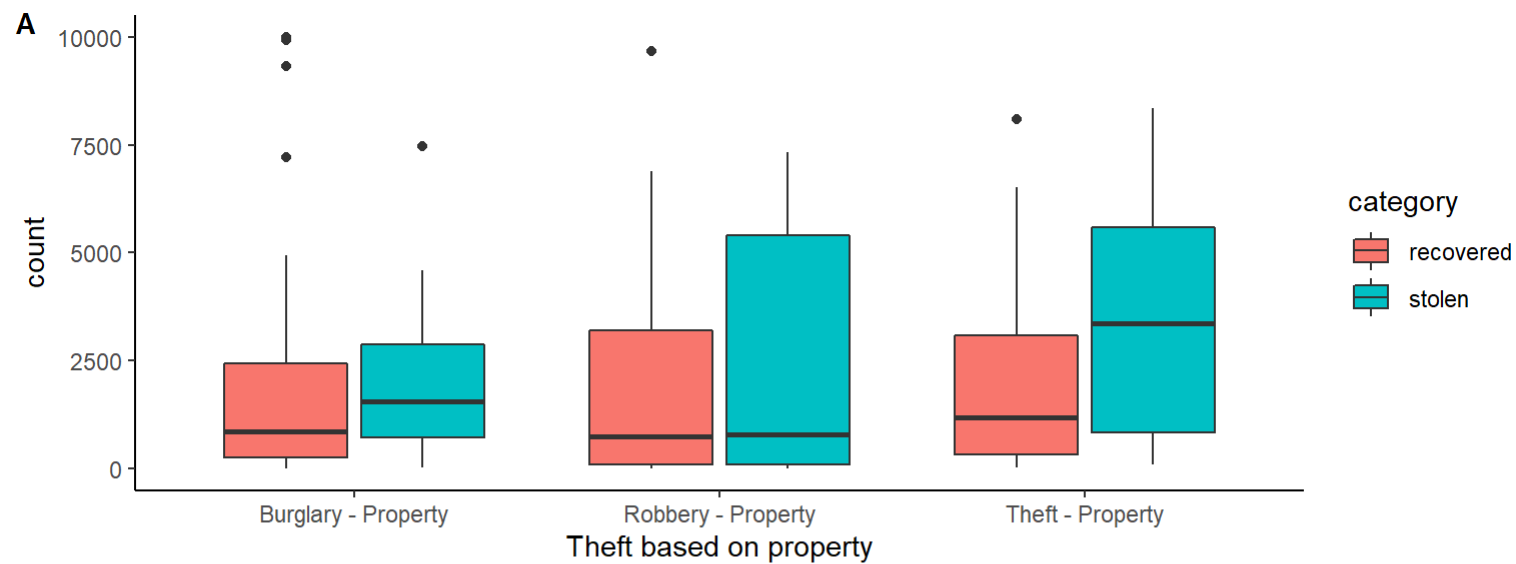Q.8 What are the main reasons for the kidnapping for female and male?

Conclusion:

Here from the alluvium chart describes the male and female ratio of kidnapping according to the category from the year 2000 to 2010. From this chart we can make a observation that most of the kidnapping done by the male are for prostitution, ransom, revenge and unlawful activity and which has not been increased or decreased over the years. For the kidnapping done by the female are mostly for the marriage reason. There have been slight cases for illicit intercourse reason but they have been decreasing from 2009.

Q.9 Rate of thefts that were recovered and stolen in the case of property and vehicles?
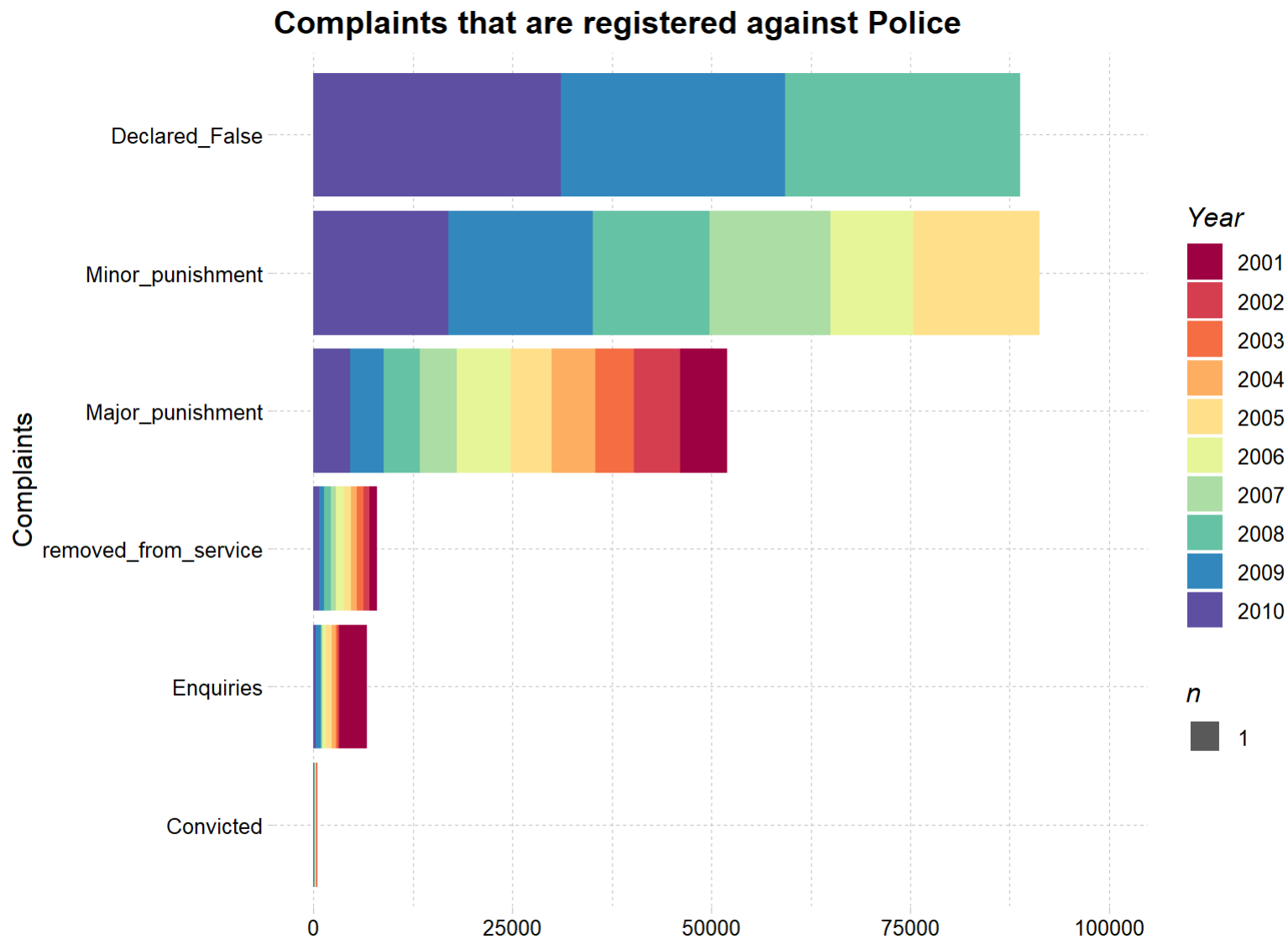
A

(Boxplot — count vs. Theft based on property, with categories recovered and stolen for Burglary - Property, Robbery - Property, Theft - Property)

B

(Boxplot — count vs. Theft based on vehicles, with categories recovered and stolen for AT2-Motor Car/Taxi/Jeep)

Conclusion :

From the A graph we can say that theft based on property that have been stolen have the highest median than the other categories.Whereas in B graph the median for vehicles stolen is more. From the data set we can find one usual fact that median has been low for both graphs in the case of recovery.

CASES RELATED TO POLICE

Q.10 How police have been victims and some times found to be not guilty in the crimes?

Complaints that are registered against Police

Conclusion : Its always came across that police have been charged for the cases even they are guilty. Here from this data set we can say that complaints against the false cases have been more in the year 2008. We can also see that police have major punished in the year of 2001. From the results we can also say that police have been detained more in the year 2001.