



SQL and Databases:

Project Report

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Overview

No of Precinct

7

No of total crimes
reported

1318

No of areas

11

No of offenders

1318

No of officers

54

Total population

62683

No of CCTV

2405

Count of cases where
status is IC

1186

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Metrics

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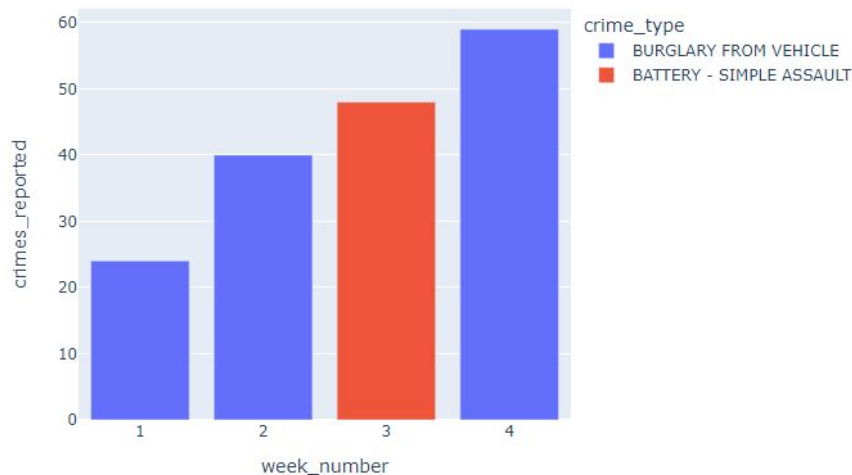
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Distribution of most frequent crimes occurred on weekly basis

| week_number | crime_type | no_of_customers |
|-------------|--------------------------|-----------------|
| 1 | BURGLARY FROM VEHICLE | 24 |
| 2 | BURGLARY FROM VEHICLE | 40 |
| 3 | BATTERY - SIMPLE ASSAULT | 48 |
| 4 | BURGLARY FROM VEHICLE | 59 |

Most frequent crime committed in each week



Observations / Findings

- The crime rate appears to be increasing every week, as shown in the graph above.
- As we can see, the most common sort of crime is burglary from a vehicle followed by battery- simple assault.

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Chart to compare population density, precinct area, officer's count with crime rate

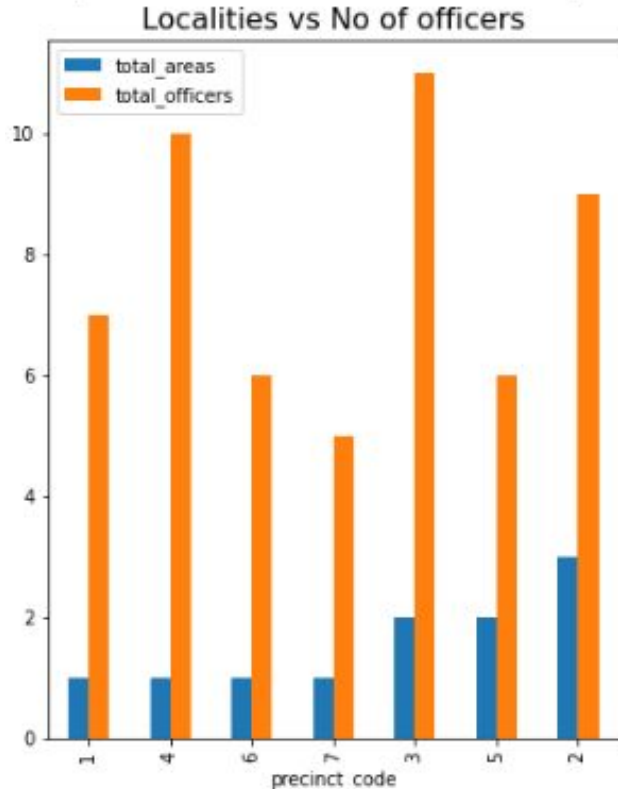
Note: The result shown below is first 5

| precinct_code | pop_density | total_areas | total_officers | cases_reported |
|---------------|-------------|-------------|----------------|----------------|
| 1 | 3950 | 1 | 7 | 156 |
| 2 | 20789 | 3 | 9 | 159 |
| 3 | 9649 | 2 | 11 | 314 |
| 4 | 8500 | 1 | 10 | 233 |
| 5 | 9909 | 2 | 6 | 145 |

Observations / Findings

- The plots and tables above show that there is no exact relationship between population density, total officers per precinct, and total area per precinct and crime rate.
- As can be seen in Precinct 3, locations with a lower population density have a higher crime rate. It's possible that this is because the precinct coverage area is too large to handle adequately.
- Also, we can see that while the population density in Precinct 2 is high, the number of instances reported is low. This could be because the police are considerably more capable.

Chart to compare population density, precinct area, officer's count with crime rate

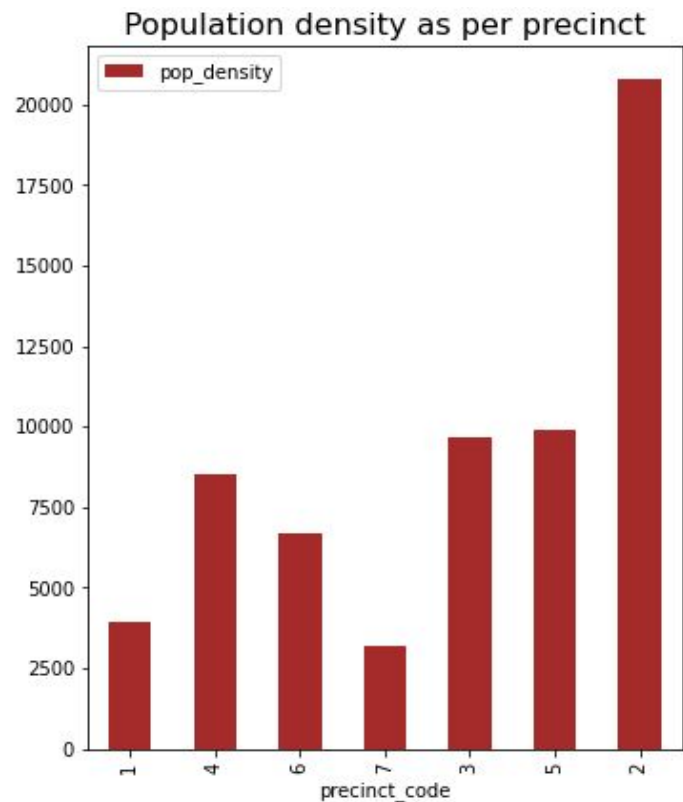


| precinct_c ode | pop_densi ty | total_area s | total_off icers | cases_reported |
|-------------------|-----------------|-----------------|--------------------|----------------|
| 1 | 3950 | 1 | 7 | 156 |
| 2 | 20789 | 3 | 9 | 159 |
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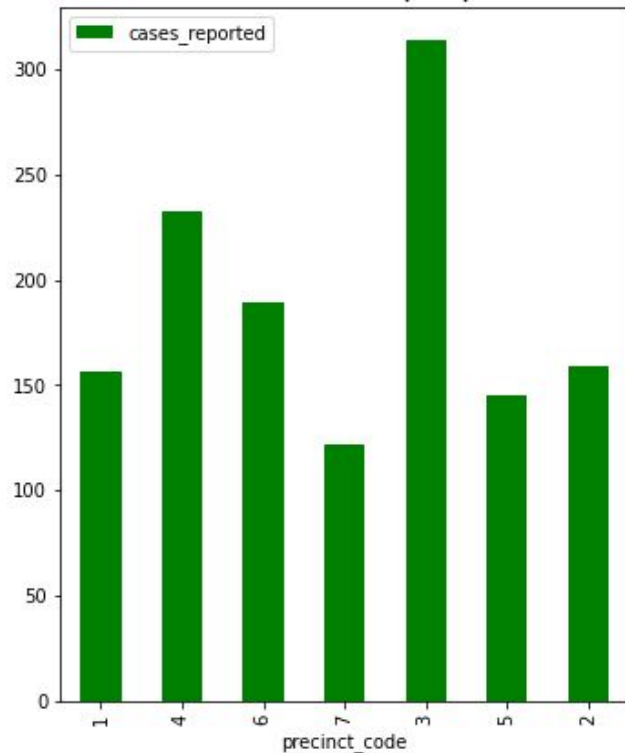
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Crimes recorded as per precinct



| precinct_c ode | pop_densi ty | total_area s | total_off icers | cases_reported |
|-------------------|-----------------|-----------------|--------------------|----------------|
| 1 | 3950 | 1 | 7 | 156 |
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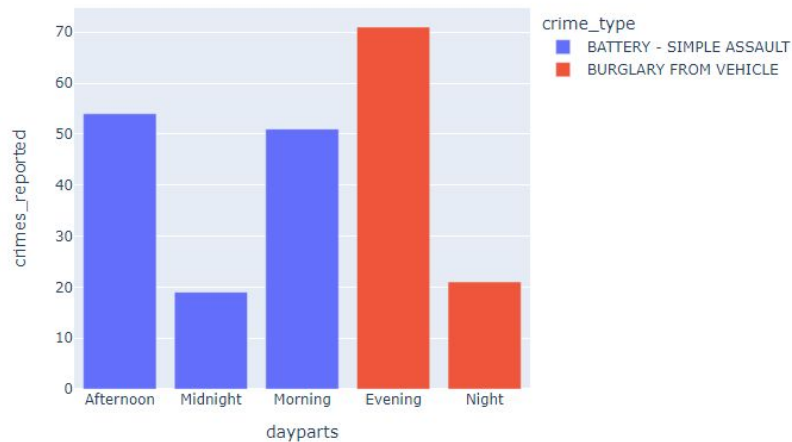
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Distribution to see which crime types are most prevalent throughout the day

| dayparts | crime_type | crimes_reported |
|-----------|--------------------------|-----------------|
| Afternoon | BATTERY - SIMPLE ASSAULT | 54 |
| Evening | BURGLARY FROM VEHICLE | 71 |
| Midnight | BATTERY - SIMPLE ASSAULT | 19 |
| Morning | BATTERY - SIMPLE ASSAULT | 51 |
| Night | BURGLARY FROM VEHICLE | 21 |

Crimes recorded in each day part



Observations / Findings

- The most common sort of crime occurs in the evening of a day.
- At Midnight, the fewest cases are reported.

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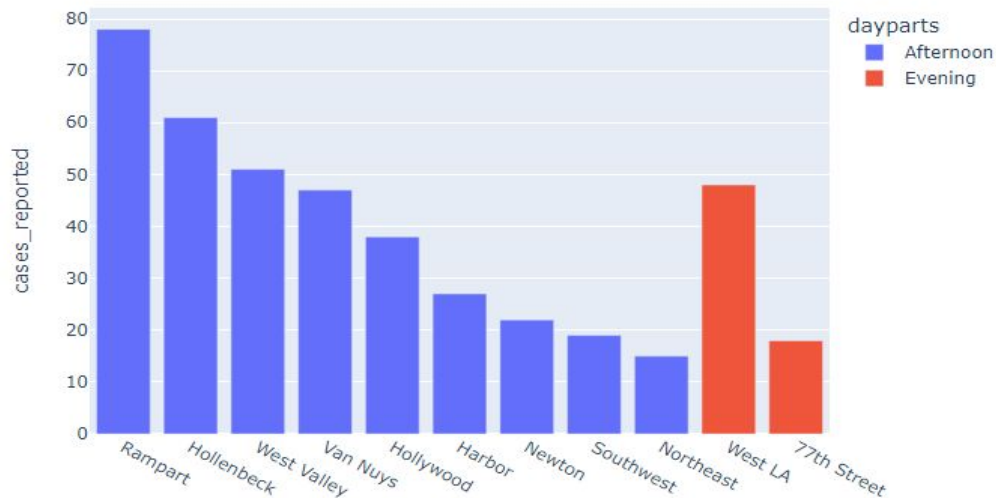
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Distribution to see each area's maximum crimes reported across a day

Note: The result shown below is first 5

| area_name | dayparts | cases_reported |
|-------------|-----------|----------------|
| Rampart | Afternoon | 78 |
| Hollenbeck | Afternoon | 61 |
| West Valley | Afternoon | 51 |
| West LA | Evening | 48 |
| Van Nuys | Afternoon | 47 |

Highest crimes recorded in various areas in a point of a day



Observations / Findings

- At the afternoon, the area rampart reports a high number of offences.
- In the afternoon, the north east had the fewest recorded offences.

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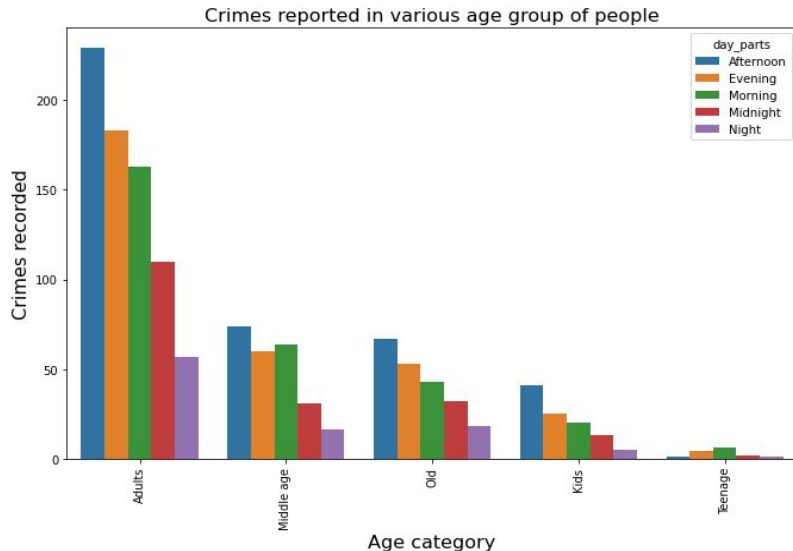
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Distribution of the crime rate for victims of various ages over the course of a day

Note: The result shown below is first 5

| age_cat | day_parts | cases_reported |
|------------|-----------|----------------|
| Adults | Afternoon | 229 |
| Adults | Evening | 183 |
| Adults | Morning | 163 |
| Adults | Midnight | 110 |
| Middle age | Afternoon | 74 |



Observations / Findings

- For adults, the most offences are reported in the afternoon.
- Teenagers are the victims of the fewest crimes.

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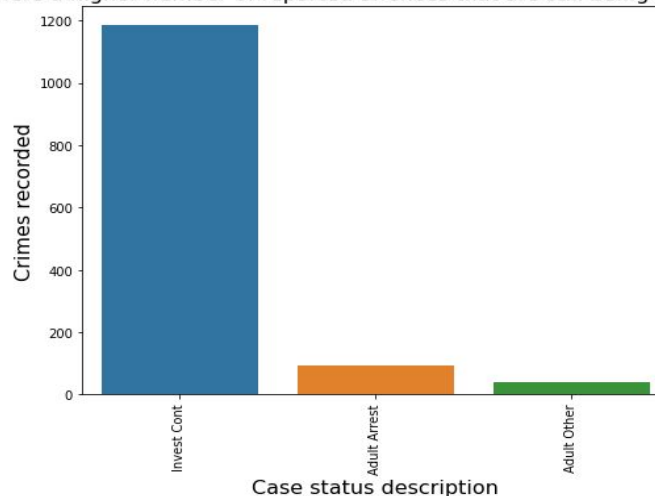
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Distribution of the case status across a week

| case_status_desc | case_count |
|------------------|------------|
| Invest Cont | 1186 |
| Adult Arrest | 94 |
| Adult Other | 38 |

Is there a higher number of reported offences that are still being investigated



Observations / Findings

- The accompanying graph depicts the fact that the majority of the reported instances are still under investigation.

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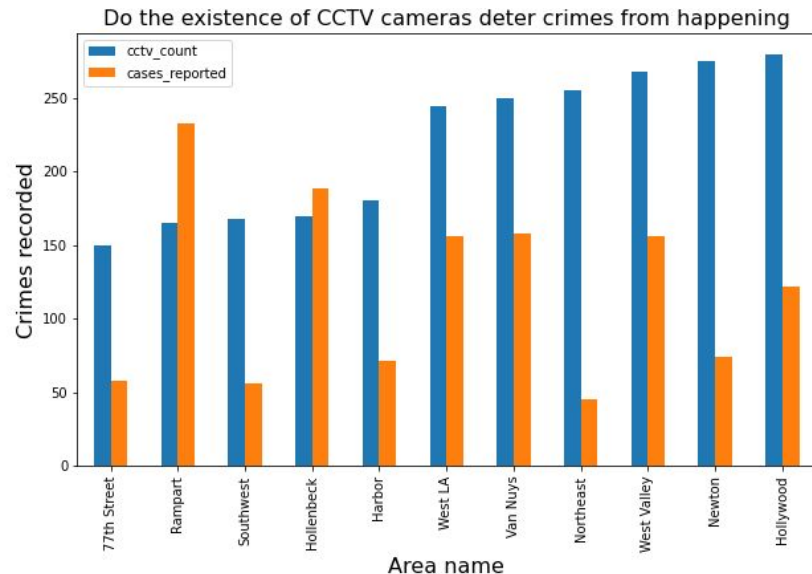
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Distribution of area and CCTV count in relation to crime rate

Note: The result shown below is first 5

| area_name | cctv_count | cases_reported |
|-------------|------------|----------------|
| 77th Street | 150 | 58 |
| Rampart | 165 | 233 |
| Southwest | 168 | 56 |
| Hollenbeck | 170 | 189 |
| Harbor | 180 | 71 |



Observations / Findings

- As can be seen from the graph, there is no discernible relationship between cctv count and instances recorded.
- Although there are fewer CCTV cameras on 77th Street, there are also fewer crimes reported.
- Although the Rampart area has a large number of CCTV cameras, it also has a significant number of recorded crimes. This could be due to the coverage area being too large.

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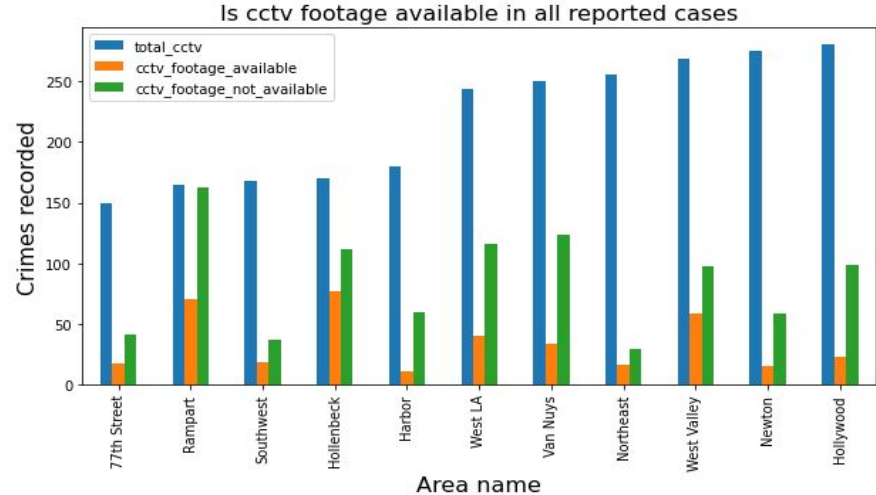
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Distribution to see whether CCTV footage is available or not at the crime scene for each area

Note: The result shown below is first 5

| area_name | total_cctv | cctv_footage_available | cctv_footage_not_available |
|-------------|------------|------------------------|----------------------------|
| 77th Street | 150 | 17 | 41 |
| Harbor | 180 | 11 | 60 |
| Hollenbeck | 170 | 77 | 112 |
| Hollywood | 280 | 23 | 99 |
| Newton | 275 | 15 | 59 |



Observations / Findings

- Even if a cctv camera is present in the neighbourhood, most of the reported offences do not have cctv footage.

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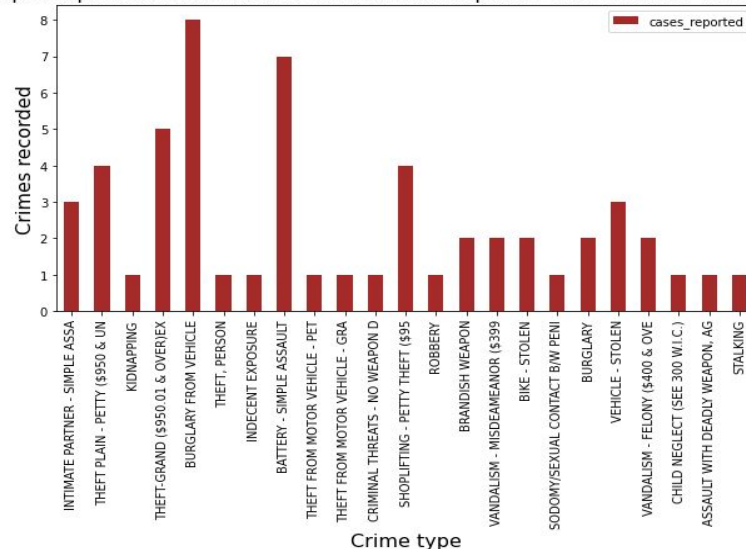
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Crimes committed by relation of victim/strangers

Note: The result shown below is first 5

| crime_type | cases_reported |
|---------------------------------|----------------|
| INTIMATE PARTNER - SIMPLE ASSA | 3 |
| THEFT PLAIN - PETTY (\$950 & UN | 4 |
| KIDNAPPING | 1 |
| THEFT-GRAND (\$950.01 & OVER)EX | 5 |
| BURGLARY FROM VEHICLE | 8 |

These plot represents kind of crime that has been reported when offender related to victim



Observations / Findings

- When the offender is related to the victim, the plot describes the types of offences that have been reported.
- Burglary from a vehicle is more common when the offender is related to the victim.

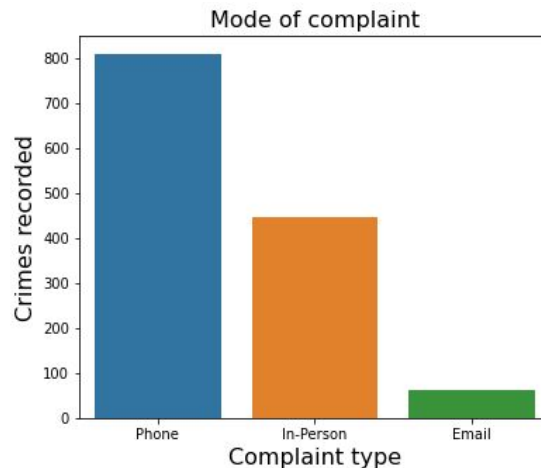
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Distribution for the complaint type and the crime rate

| complaint_type | cases_reported |
|----------------|----------------|
| Phone | 810 |
| In-Person | 446 |
| Email | 62 |



Observations / Findings

- When a crime occurs, the majority of people utilise the phone as a method of reporting it.
- Only a small percentage of people use email to report crimes.

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- From week one to week four, the crime rate has risen.
- Burglary from a vehicle is the most commonly reported offence each week.
- There is no correlation between the crime rate and the population density, number of officers, or total area in each precinct. This could be due to the fact that a high-density neighbourhood may have a high-quality police officer who is capable of handling the situation. Also, in low-density areas, police personnel are unable to control the situation, which is why the crime rate is high.
- There is no correlation between the number of CCTV cameras and the rate of crime, because if the number of cameras is high in one area but the area is too large, the cctv coverage is low in that area.
- For adult most offences are reported.
- The vast majority of cases are still being investigated.
- The majority of individuals use their phones to report crimes.

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- The number of cctv cameras should correspond to the coverage area. The area that is too large should have the most CCTV cameras possible.
- Each precinct's number of officers should be proportional to its service area. Officers should also be chosen on the basis of their abilities.
- In the precinct with the most cases under investigation, a thorough audit should be conducted to determine why the majority of the cases are being investigated.
- The majority of individuals use their phones to submit cases; therefore, a proper infrastructure should be in place so that the complainant does not have to wait to register a complaint.

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