
SQL Extended Project

Crime in Los Angeles

Contents

| | |
|---|----|
| 1.0 Problem Statement Crime in Los Angeles..... | 3 |
| 1.1 Overview | 4 |
| 1.2 Distribution of most frequent crimes occurred on weekly basis..... | 5 |
| 1.3 Chart to compare population density, precinct area, officer's count with crime rate | 5 |
| 1.4 Distribution to see which crime types are most prevalent throughout the day | 6 |
| 1.5 Distribution to see each area's maximum crimes reported across a day | 6 |
| 1.6 Distribution of the crime rate for victims of various stages over the course of a day | 7 |
| 1.7 Distribution of the case status across a week..... | 7 |
| 1.8 Distribution of area and CCTV count in relation to crime rate..... | 8 |
| 1.9 Distribution to see whether CCTV footage is available or not at the crime scene for each area | 8 |
| 1.10 Crimes committed by relation of victim/strangers | 9 |
| 1.11 Distribution for the complaint type and the crime rate..... | 9 |
| 1.12 Insight and Recommendation | 10 |

SQL Project

1.0 Problem Statement – Crime in Los Angeles

People all throughout Los Angeles are concerned about recent reports of crimes in numerous locations. The mayor of Los Angeles has established a new Criminal Investigation Division to study how and why crime is on the rise, as well as the elements that contribute to it, so that officials may take the necessary steps to keep the city's residents safe.

Objective

As a member of the Analytics Division, you are aware that there are numerous questions that must be answered utilizing CID data. Import the dump file that contains various tables that are present in the database. Using the data, react to the questions and write a detailed report for the authorities to utilize in taking action against crimes in Los Angeles.

Data Description:

You have information on several types of crimes that occurred in different areas throughout Los Angeles: what was the crime, who was the victim, and where did the incident occur? What is the age of the victim and so on?

The data dictionary (crime_la.txt), which has detailed descriptions of each column, and the dump file (crime_la_dumpfile.sql), can be found in the same data folder. The crime_la_proj.rar file contains the data folder and the diagram folder which contains the ER diagram.

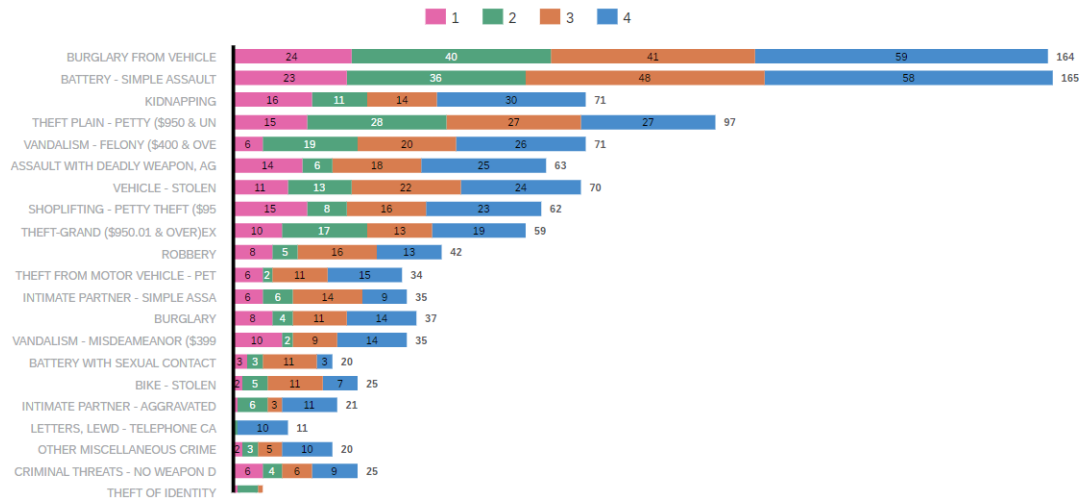
1.1 Overview

➤ Overview of the Dataset

| | | | |
|----------------|-----------------------------|-------------|-----------------------------------|
| No of Precinct | No of Total Crimes Reported | No of Areas | No of offenders |
| 7 | 1,318 | 11 | 3,063 |
| No of Officers | Total Population | No of CCTV | Count of Cases where status is IC |
| 54 | 62,683 | 2,405 | 1,186 |

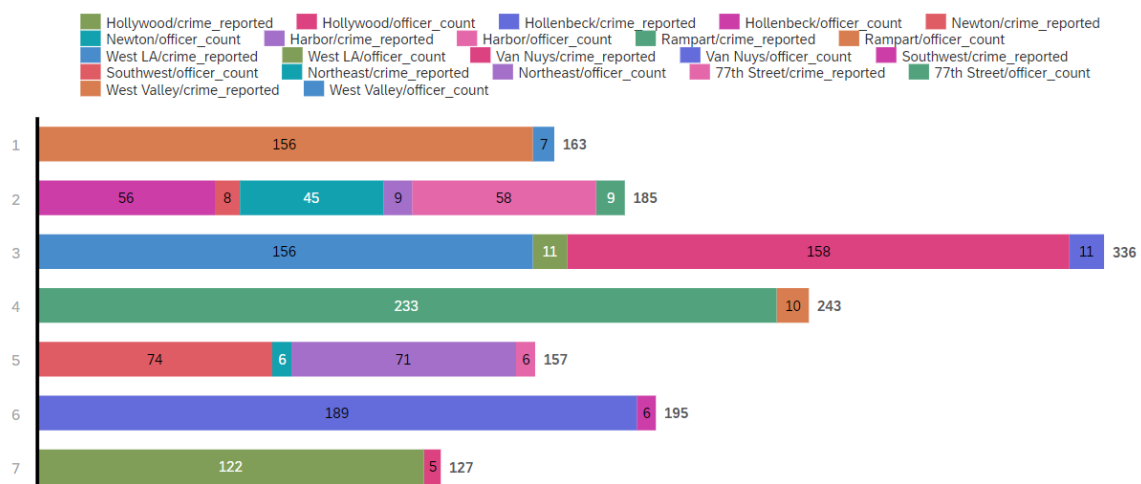
1.2 Distribution of most frequent crime occurred on weekly basis

Count of Cases per crime_type, week_number



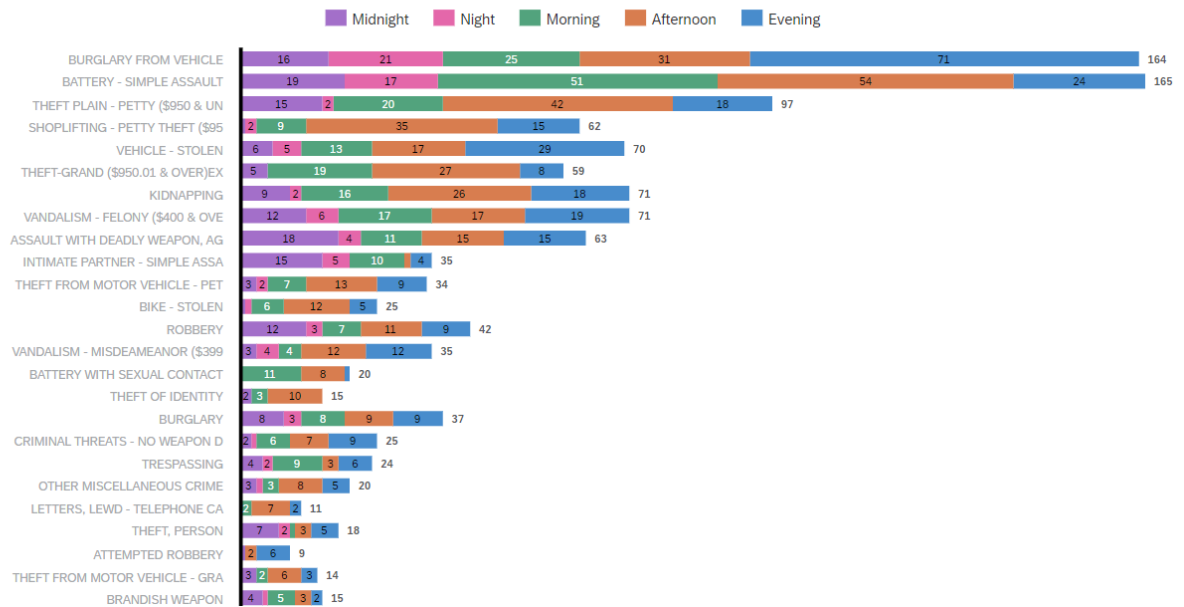
1.3 Chart to compare population density, precinct area, officer's count with crime rate

Population density, officer_Count, Crime reported per area, precinct



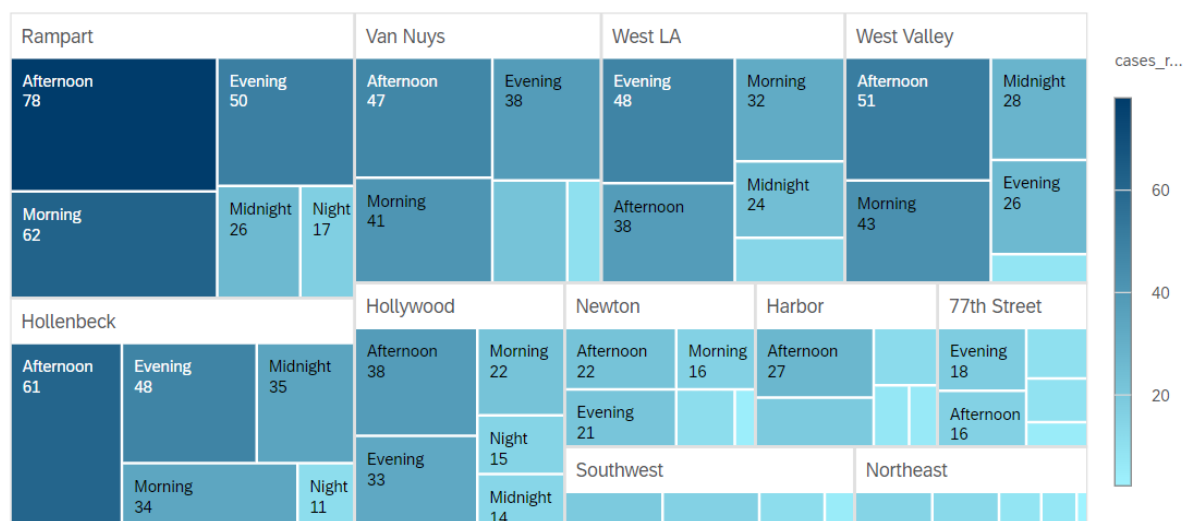
1.4 Distribution to see which crime types are most prevalent throughout the day

Crime types are most prevalent throughout the day



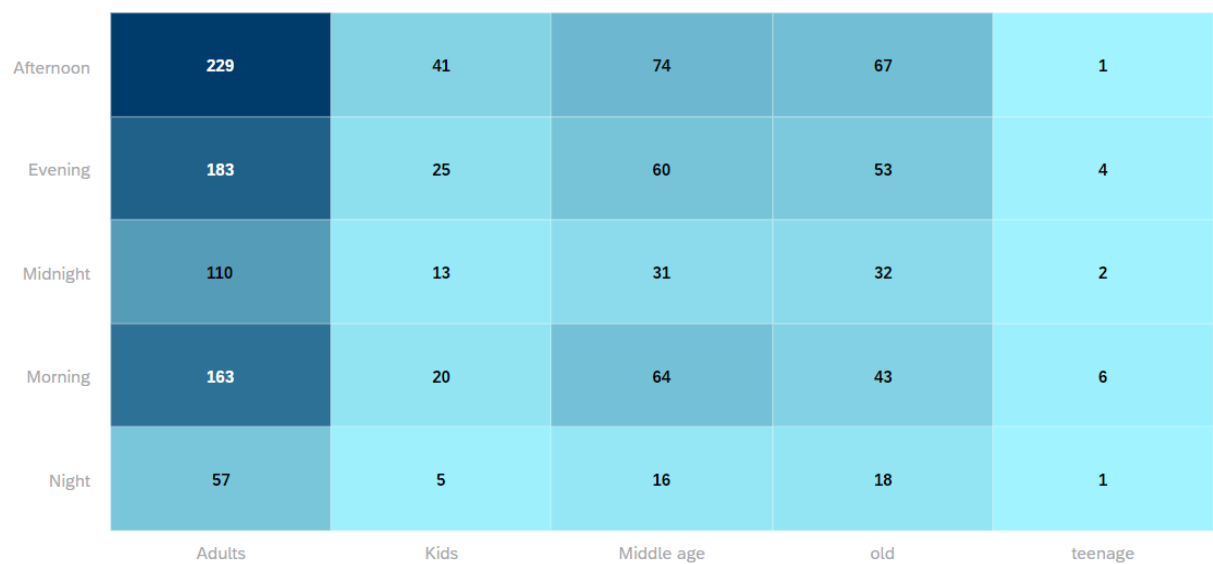
1.5 Distribution to see each area's maximum crimes reported across a day

Area Wise Maximum crime throughout the day



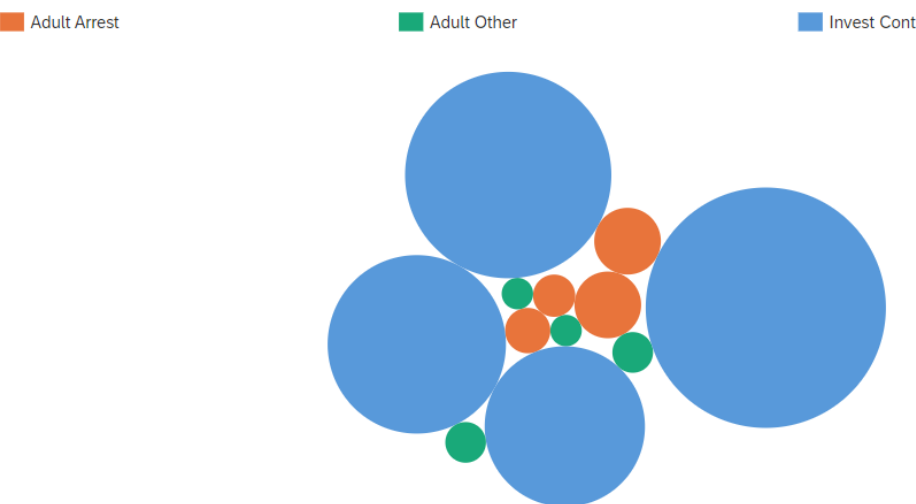
1.6 Distribution of the crime rate for victims of various stages over the course of a day

Crime rate for victims of various ages over the course of a day

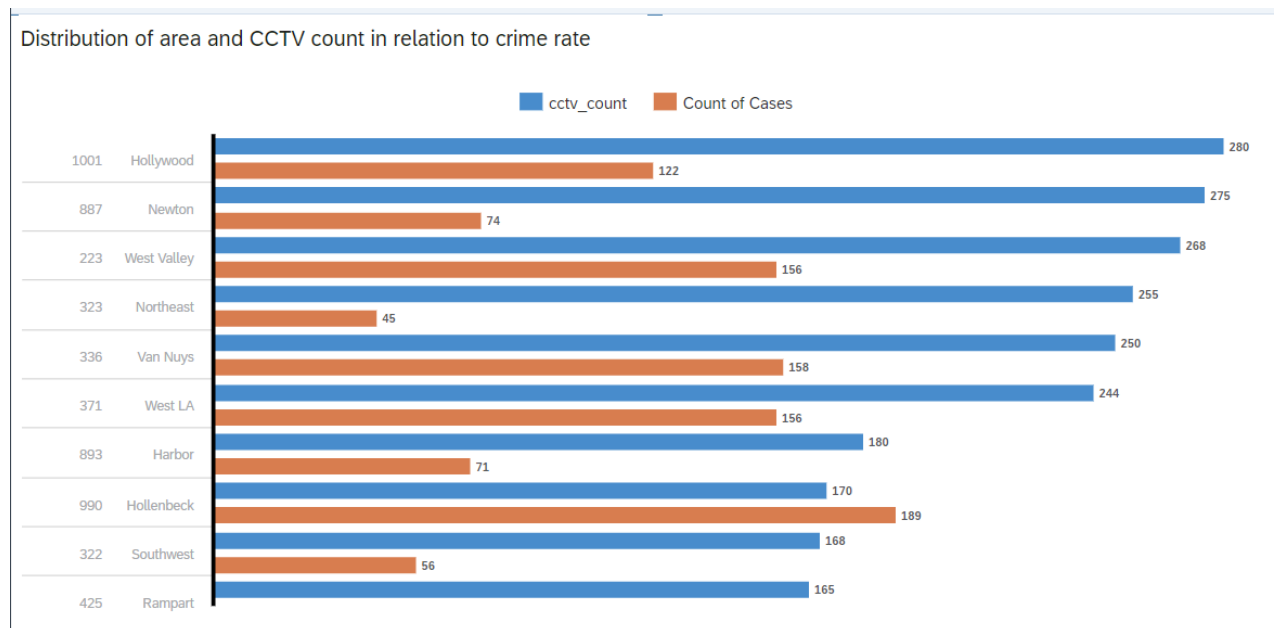


1.7 Distribution of the case status across a week

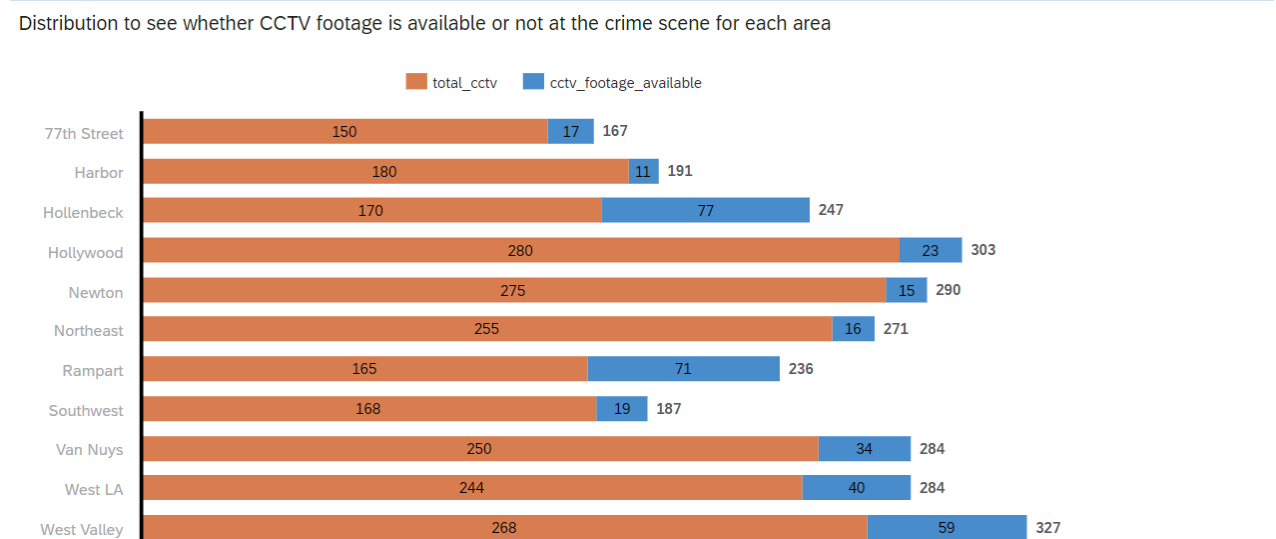
Distribution of the case status across a week



1.8 Distribution of area and CCTV count in relation to crime rate

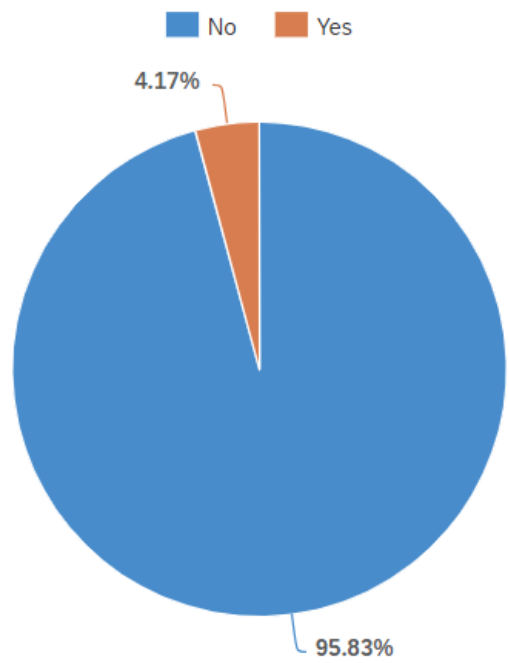


1.9 Distribution to see whether CCTV footage is available or not at the crime scene for each area



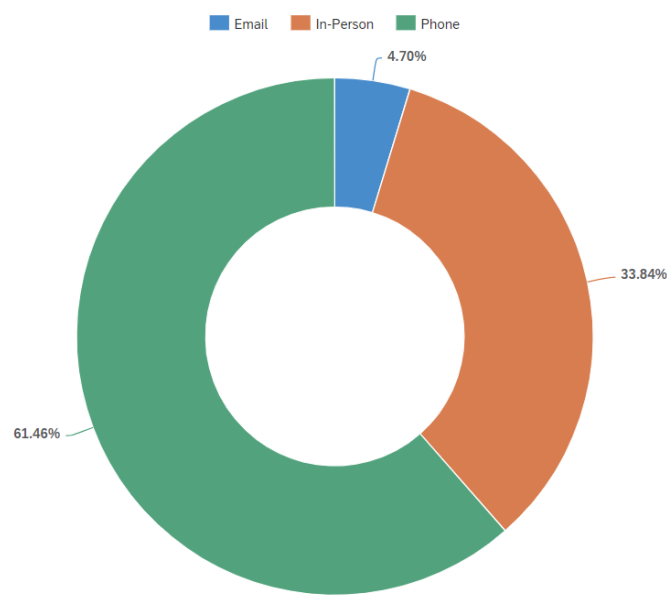
1.10 Crimes committed by relation of victim/strangers

Crime committed by relation of Victim



1.11 Distribution for the complaint type and the crime rate

Distribution for the complaint type and the crime rate



1.12 Insights and Recommendations

1. Total No of Crime Reported are 1318
2. There are total 11 areas
3. No of offenders are 3063 and 2405 CCTV installed
4. 54 officers are reputed over population of 62683
5. Burglary from Vehicle and Battery Simple Assault are most common crimes every week
6. It is observed that crime is high in particular Precinct irrespective of office count of population e.g In Precinct 3 crime is more as compare to precinct 2 where population is high.
7. Crime dies down at about 5 am when most of the city is sleeping. This is very much expected. I also expected a peak at around the night 11 pm when people are sleeping. What's surprising to me is the increase to almost peak levels at afternoon and evening. It will be interesting to see what type of crimes occur during these hours. so basically battery - simple assault and Burglary from vehicle are most common crime in these hours
8. Rampart and Hollenbeck mostly crime reported in Afternoon, West LA and 77 Street reported during evening.
9. Usually adults and Kids are the victim of most of the crime
10. Most of the cases status are in Investigation Continue status.
11. There is no relation found between cctv insalled and crime occurred
12. Complaints are mostly reported over phone
13. In 95% cases crime are committed by strangers
14. Cctv footage is not available in most of the cases