

SQL and Databases:

Project Report

By: Nancy Gupta



Overview

No of Precinct

54

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

Total case status is IC

1189

No of Male Offenders

851

No of Female Offenders

467

No of Male Victims

587

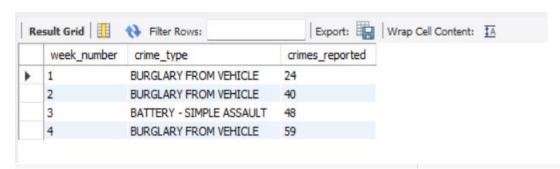
No of Female Victims

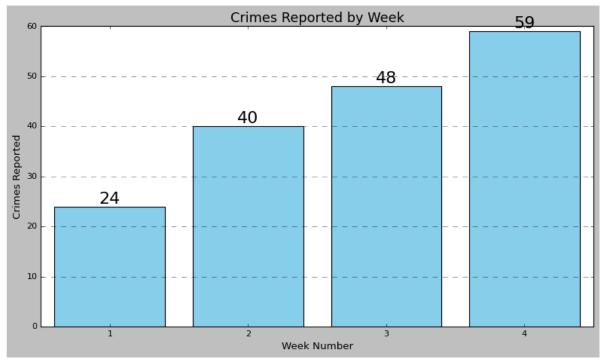
731



Metrics

Distribution of most frequent crimes occurred on weekly basis.



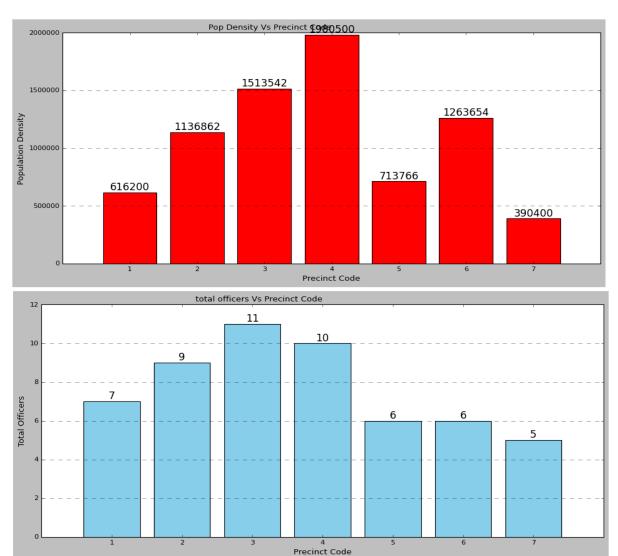


- ➤ Week 4 has the greatest number of crimes reported.
- > Week 1 has the least number of crimes reported.

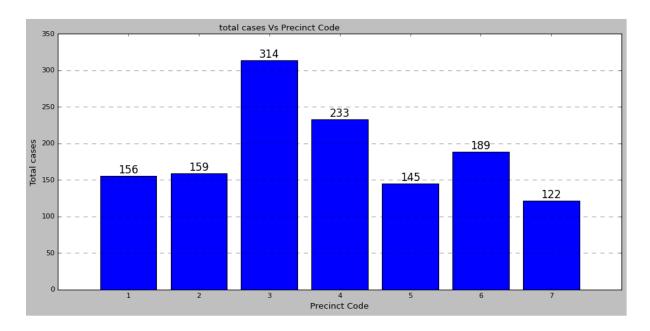


Chart to compare population density, precinct area, officer's count with crime rate.





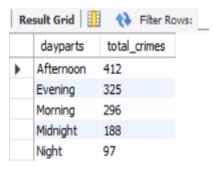




- > Area code 4 has maximum and 7 has minimum population density.
- ➤ There are maximum 11 officers available at precinct code 3 and minimum 5 at precinct code 7
- Total cases reported is maximum at precinct code 3 and minimum at precinct code 7.
- > There is no pattern between population density Vs officers available or crime however higher number of officers are available at places where total cases are high.

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





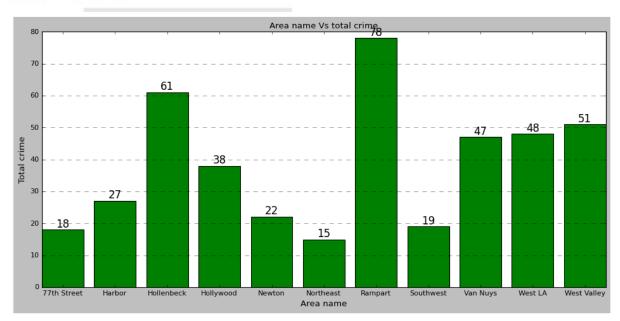


- ➤ At afternoon we see the highest number of crimes occurring and is 412 in number followed by Evening that is 325.
- > At Night the number of crimes is least.
- ➤ Burglary from vehicle is the crime type which has mostly happened in all the crime type category

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



	area_name	dayparts	total_crimes
•	77th Street	Evening	18
	Harbor	Afternoon	27
	Hollenbeck	Afternoon	61
	Hollywood	Afternoon	38
	Newton	Afternoon	22
	Northeast	Afternoon	15
	Rampart	Afternoon	78
	Southwest	Afternoon	19
	Van Nuys	Afternoon	47
	WestLA	Evening	48
	West Valley	Afternoon	51

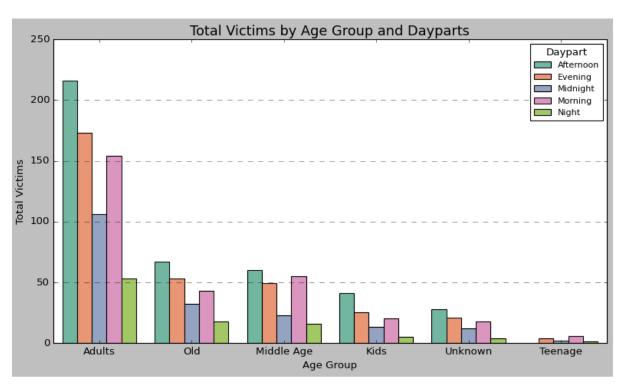


- ➤ Rampart is the area in which maximum crimes are reported each day specially during the afternoon.
- ➤ Minimum Cases are reported in the Northeast Area.



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

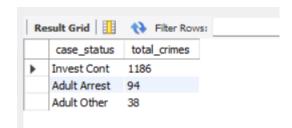
	age_group	dayparts	total_victims		age_group	dayparts	total_victims
١	Adults	Afternoon	216		Adults	Midnight	106
	Old	Afternoon	67		Old	Midnight	32
	Middle Age	Afternoon	60		Middle Age	Midnight	23
	Kids	Afternoon	41		Kids	Midnight	13
	Unknown	Afternoon	28		Unknown	Midnight	12
	Adults	Evening	173		Teenage	Midnight	2
	Old	Evening	53		Adults	Morning	154
	Middle Age	Evening	49		Middle Age	Morning	55
	Kids	Evening	25		Old	Morning	43
	Unknown	Evening	21		Kids	war at a said	20
	Teenage	Evening	4		Unknown	Morning Morning	18
Re	sult 47 ×			-	CHAIDWIT	Horring	10

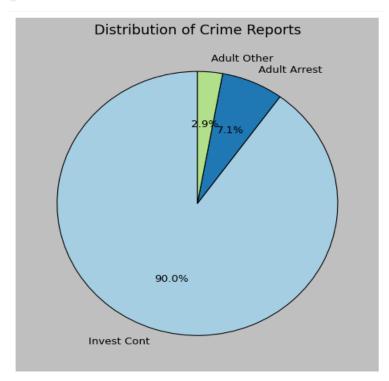


- Victims are mostly Adults.
- ➤ Most of the crimes occurring to the Adults in the afternoon
- > Least crime has been observed among teenagers during all dayparts.



Distribution of the case status across a week.



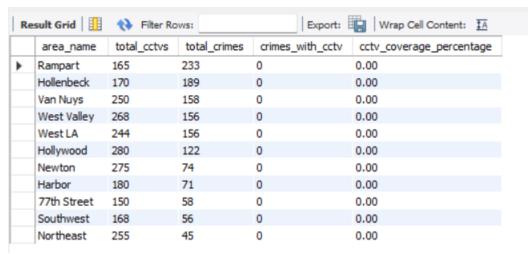


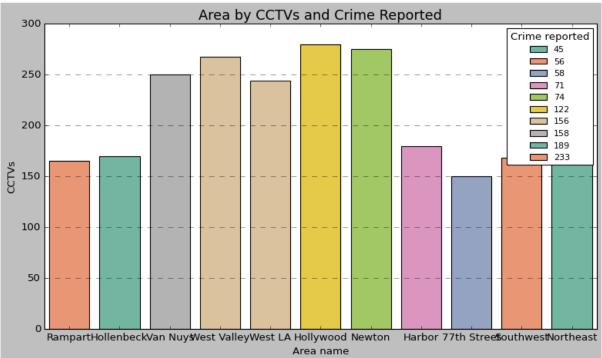
Observations and Findings

- ➤ 1186 out of 1318 cases are at Investigation Continues status which is 90%
- > 7.1% of the adults are arrested.

Distribution of area and CCTV count in relation to crime rate



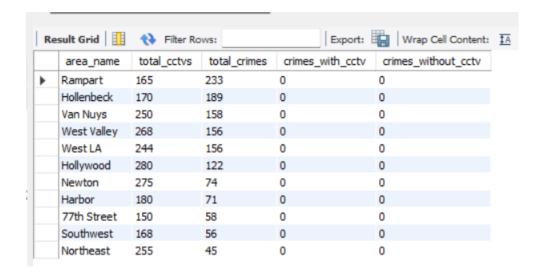




- CCTV counting are not according to the case reported
- Most of the CCTV are installed in the Hollywood area and minimum CCTV counting are available in the 77th Street.



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



Observations and Findings

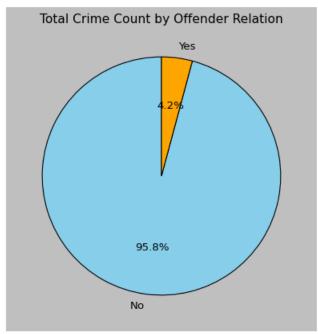
- > In every area CCTV footage are not available at the time of crime.
- > CCTV management is not good as per above data to reduce the crime.
- In the area with higher rates of crime like Rampart do not have sufficient CCTV available.

Crimes committed by relation of victim or strangers



[↑]		$offender_relation$	crime_type	crime_count		
	0	No	BATTERY - SIMPLE ASSAULT	158	11.	
	1	No	VANDALISM - MISDEAMEANOR (\$399	33	+1	
	2	No	RAPE, FORCIBLE	5		
	3	No	SHOPLIFTING - PETTY THEFT (\$95	58		
	4	No	OTHER MISCELLANEOUS CRIME	20		
	77	Yes	ASSAULT WITH DEADLY WEAPON, AG	1		
	78	No	COUNTERFEIT	1		
	79	No	CHILD ABUSE (PHYSICAL) - SIMPL	1		
	80	No	HUMAN TRAFFICKING - COMMERCIAL	1		
	81	Yes	STAI KING	1		

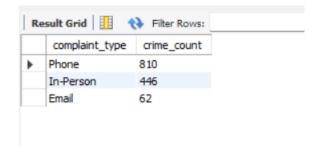
82 rows x 3 columns

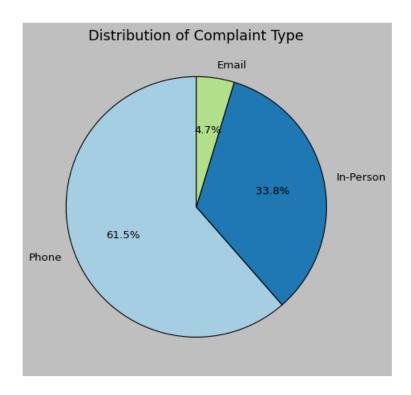


- > 95.8% of the offenders are strangers
- > 4.2% of the offenders are in relation to the victim.



Distribution for the complaint type and the crime rate.





- Maximum complaints have been done by phone which is 61.5% alone.
- ➤ 33.8% people have complained in person.
- ➤ Only 4.7% complaints have been made through E-Mail.



Insights and Recommendations

Insights

- There is no pattern between population density Vs case reported and officers available in those areas.
- In the afternoon most of the crimes are reported throughout the day.
- ➤ Rampart is the area where maximum cases are reported in the afternoon and as per data less CCTV are available as per case reported in this area.
- Most of the victims are from adult age group.
- Maximum 1186 cases are under investigation out of 1318 cases.
- > Burglary from Vehicle is most frequent crime which is reported throughout the data.

Recommendation

- ➤ 90% cases are under Investigation hence need to assign more officers to complete running cases so that offenders are punished.
- ➤ Insufficient CCTVs are available in the areas where most cases are reported as compared to other area hence need to provide more CCTV so that the number of reported cases is reduced.
- Rampart area needs more attention in terms of CCTV, assigning officers and planting control rooms for proper management.
- Number of Female Victims are more as compared to the Male victims hence special force or female officers should be encouraged.