Nevin Yilmaz
Categories: A safe city
Data: Crime Data from 2010 to Present

CRIME IN LOS ANGELES REPORT:

"This dataset reflects incidents of crime in the City of Los Angeles dating back to 2010. This data is transcribed from original crime reports that are typed on paper" (https://data.lacity.org/A-Safe-City/Crime-Data-from-2010-to-Present/y8tr-7khq)

Dataset includes crimes in the City of Los Angeles from 2010 to March 20, 2018.
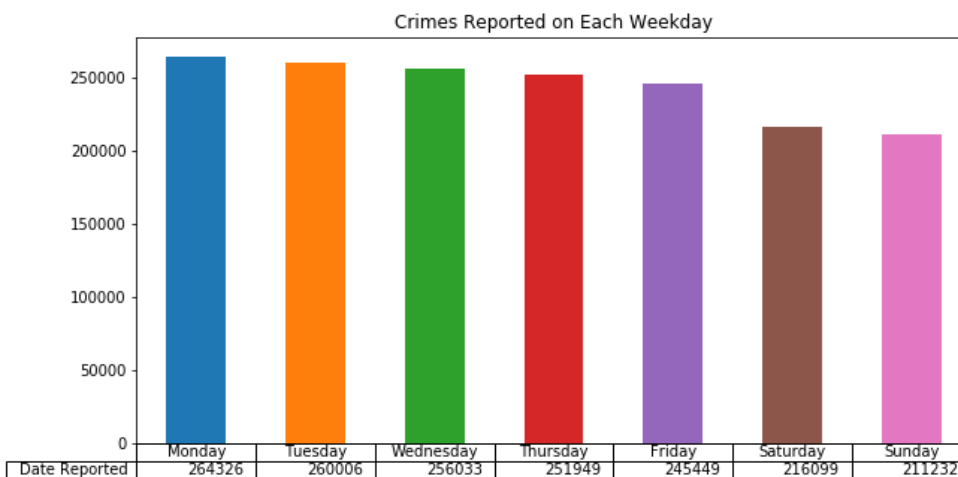
Questions to answer:
1. In which day of the week was crime reported the most?
2. In which time group (time grouped in 4 hour intervals) has crime been occurred the most?
3. In which area ID has crime been reported the most?
4. What kind of crime occurred the most?
5. What is the victim age average and which age group is victimized the most?
6. Which gender is victimized the most?
7. Which descent is victimized the most?
8. What type of structure, vehicle, or location did the crime take place?
9. Which weapon is used the most?
10. What are the top 3 locations in crime?

Column explanations:
- DR Number: division of records number
- Date Reported: MM/DD/YYYY
- Date Occurred: MM/DD/YYYY
- Time Occurred: 24 hour military time
- Area ID: geographical area numbered from 1-21
- Area Name:
- Reporting District: a four digit code that represents a sub-area
- Crime Code: indicated the crime committed
- Crime Code Description: defines the crime code provided
- MO Codes: Activities associated with the suspect (descriptions are provided in the PDF file)
- Victim Age:
- Victim Sex: F: female; M: male; X: unknown
- Victim Descent (codes):
  - A: other Asian
  - B: Black
  - C: Chinese
  - D: Cambodian
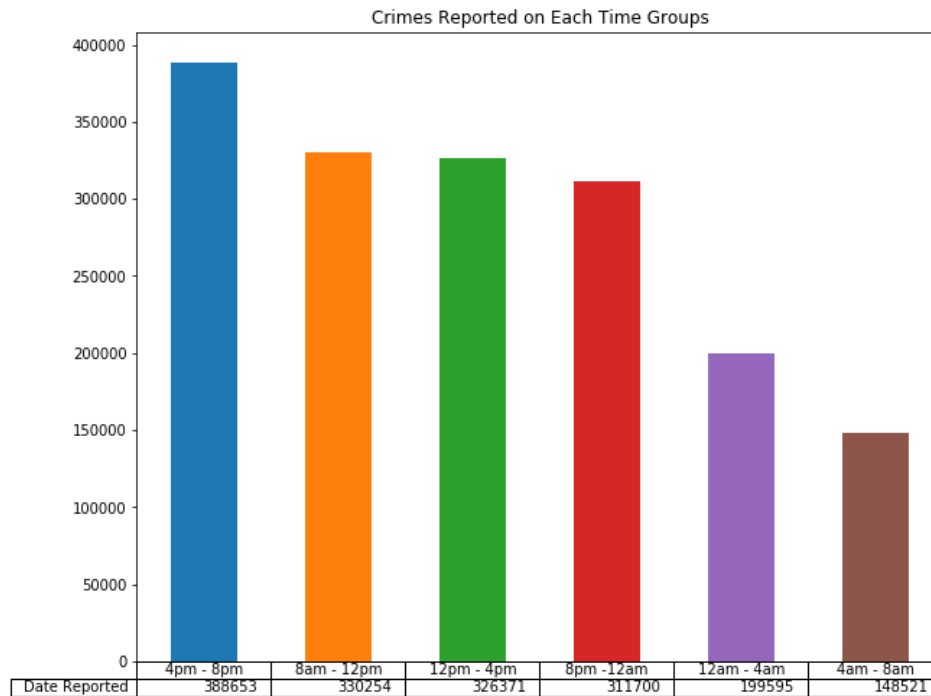 - F: Filipino
  - G: Guamanian

- o H: Hispanic/Latin/Mexican
- o I: American Indian/Alaskan Native
- o J: Japanese
- o K: Korean
- o L: Laotian
- o O: Other
- o P: Pacific Islander
- o S: Samoan
- o U: Hawaiian
- o V: Vietnamese
- o W: White
- o X: Unknown
- o Z: Asian Indian
- Premise Code: The type of structure, vehicle, or location where the crime took place
- Premise Description: Defines the premise Code
- Weapon used code: the type of weapon used in the crime
- Weapon Description:
- Status Code: Status of the code (IC is the default)
- Status description:
- Crime code 1: indicates the crime committed. Crime Code 1 is the primary and the most serious one. Crime code 2,3,4 are respectively less serious offenses.
- Crime code 2: may contain a code for an additional crime
- Crime code 3: may contain a code for an additional crime
- Crime code 4: may contain a code for an additional crime
- Address: street address of crime incident rounded to the nearest hundred block to maintain anonymity
- Cross Street: cross street of rounded address
- Location: the location where the crime incident occurred.

Q1: In which day of the week was crime reported the most?

Crimes Reported on Each Weekday

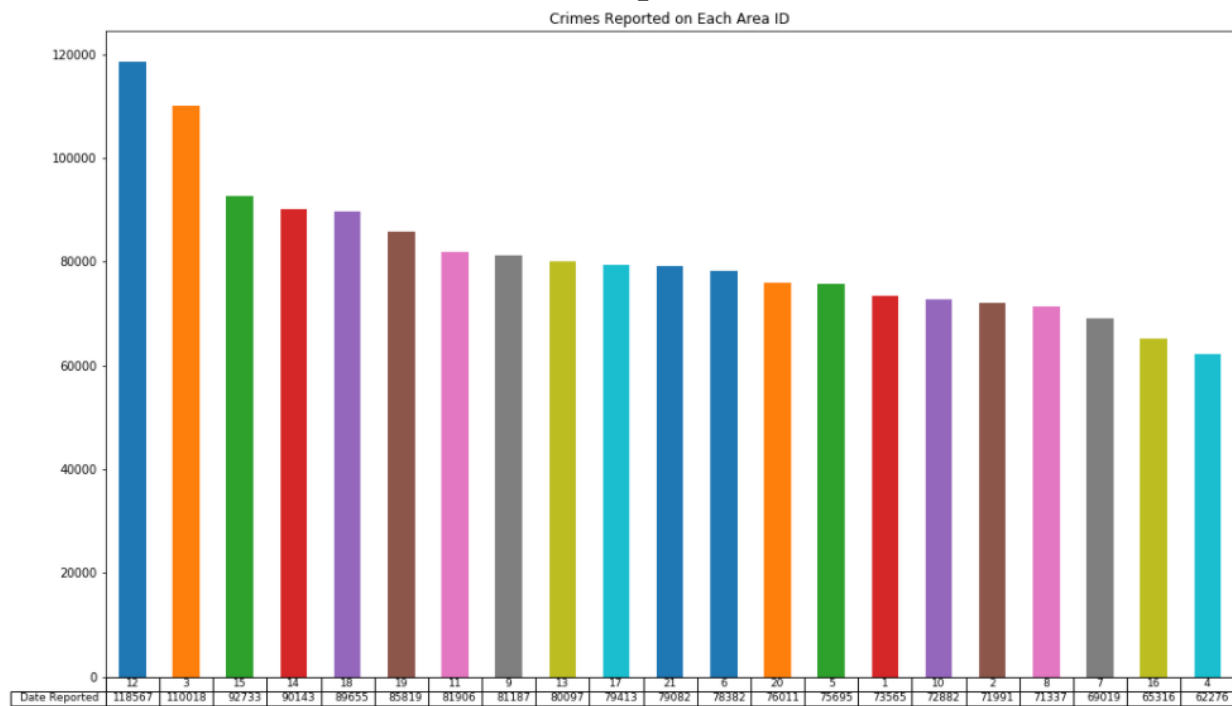| Date Reported	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	264326	260006	256033	251949	245449	216099	211232

Crimes are reported at most on Mondays and the reports decrease towards the end of the week. The least amount of report is received on Sunday. Crimes occurred more in weekdays than in weekends.

Q2: In which time group (time grouped in 4 hour intervals) has crime been occurred the most?

Crimes Reported on Each Time Groups

Date Reported	4pm - 8pm	8am - 12pm	12pm - 4pm	8pm -12am	12am - 4am	4am - 8am
	388653	330254	326371	311700	199595	148521

Crimes are reported at most between 4 pm and 8 pm (crime report count = 388,653). The least amount of reports are received between 4 am and 8 am (crime report count = 148,521). This plot shows that most of the crimes occurred between 4pm and 8pm.

Q3: In which area ID has crime been reported the most?

Crimes Reported on Each Area ID

Date Reported	12	3	15	14	18	19	11	9	13	17	21	6	20	5	1	10	2	8	7	16	4
	118567	110018	92733	90143	89655	85819	81906	81187	80097	79413	79082	78382	76011	75695	73565	72882	71991	71337	69019	65316	62276

Area ID: the LAPD has 21 Community Police Stations referred to as Geographic Areas within the department. There Geographic Areas are sequentially numbered from 1-21. Area ID 12 recorded the most crime (with 118,567 reports in total), followed by Area ID 3 (with 110,018 reports in total). The least crimes are reported in the Area ID 4 (with 62,276 reports).

Q4: What kind of crime occurred the most?

Top 10 Crime IDs

Date Reported	624	330	510	310	440	354	626	740	745	230
	155834	131123	130938	122861	121469	107052	92207	86118	76029	72942

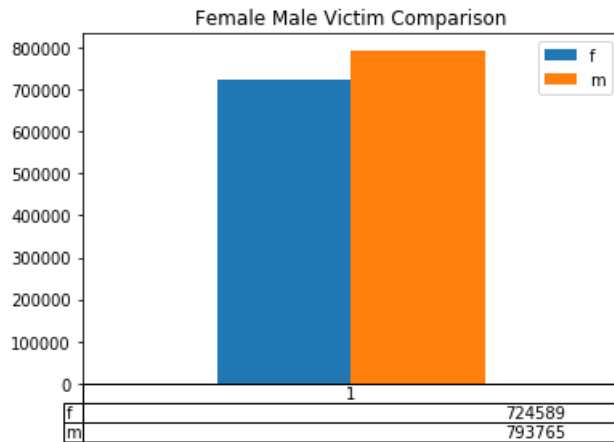| Crime Code	
624	BATTERY - SIMPLE ASSAULT
330	BURGLARY FROM VEHICLE
510	VEHICLE - STOLEN
310	BURGLARY
440	THEFT PLAIN - PETTY ($950 & UNDER)
354	THEFT OF IDENTITY
626	INTIMATE PARTNER - SIMPLE ASSAULT
740	VANDALISM - FELONY ($400 & OVER, ALL CHURCH VA...
745	VANDALISM - MISDEAMEANOR ($399 OR UNDER)
230	ASSAULT WITH DEADLY WEAPON, AGGRAVATED ASSAULT

Battery - Simple assault (code 624) is most reported among the crimes list. Burglary from vehicle (code 330) comes second, while assault with deadly weapon (code 230) is the 10th most reported crime.

Q5: What is the victim age average and which age group is victimized the most?

Crime Reports Based on Age Groups

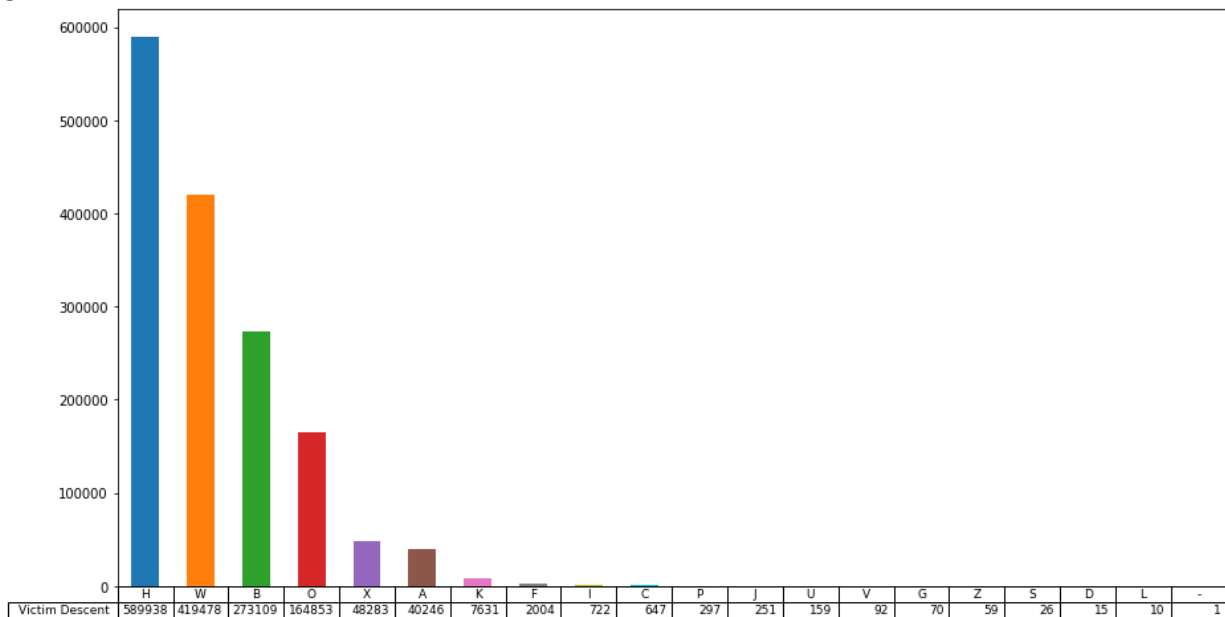| Date Reported	30-50	10-30	50-70	70-100
	712469	643145	295648	50683
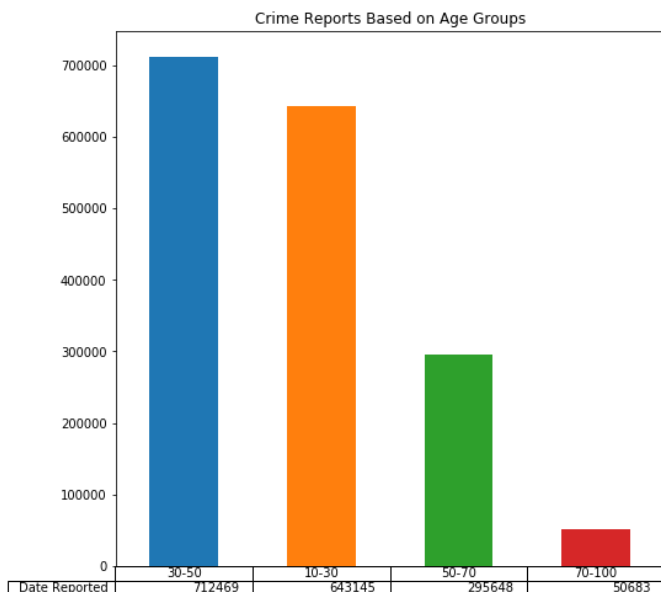
Victim age average is 36. People who are between 30 and 50 years old are victimized the most, while older people who are between 50 and 100 are victimized less.

Q6: Which gender is victimized the most?

Female Male Victim Comparison

f	724589
m	793765

Males are victimized more than females.

Q7: Which descent is victimized the most?

Victim Descent	H	W	B	O	X	A	K	F	I	C	P	J	U	V	G	Z	S	D	L	-
	589938	419478	273109	164853	48283	40246	7631	2004	722	647	297	251	159	92	70	59	26	15	10	1

* A: other Asian
* B: Black
* C: Chinese
* D: Cambodian
* F: Filipino
* G: Guamanian
* H: Hispanic/Latin/Mexican
* I: American Indian/Alaskan Native
* J: Japanese
* K: Korean
* L: Laotian
* O: Other
* P: Pacific Islander
* S: Samoan
* U: Hawaiian
* V: Vietnamese
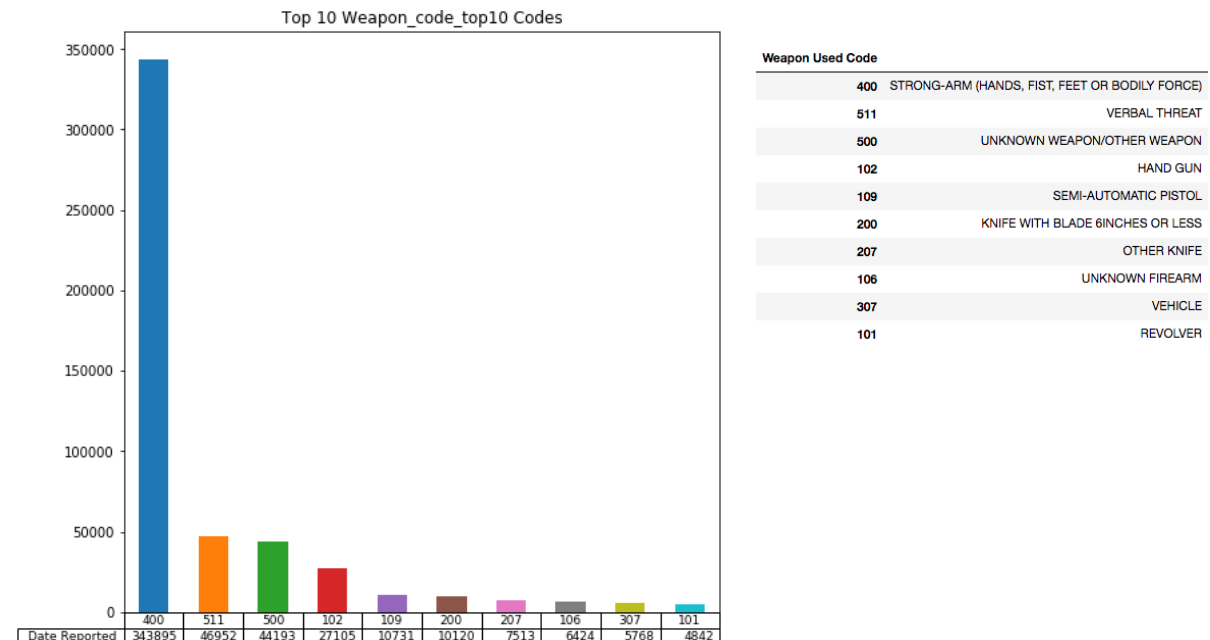* W: White
* X: Unknown
* Z: Asian Indian

People of Hispanic descent are victimized the most, followed by people of white descent.

Q8: What type of structure, vehicle, or location did the crime take place?

Top 10 Premise Codes

Premise Code	
101	STREET
501	SINGLE FAMILY DWELLING
502	MULTI-UNIT DWELLING (APARTMENT, DUPLEX, ETC)
108	PARKING LOT
102	SIDEWALK
203	OTHER BUSINESS
122	VEHICLE, PASSENGER/TRUCK
104	DRIVEWAY
707	GARAGE/CARPORT
404	DEPARTMENT STORE

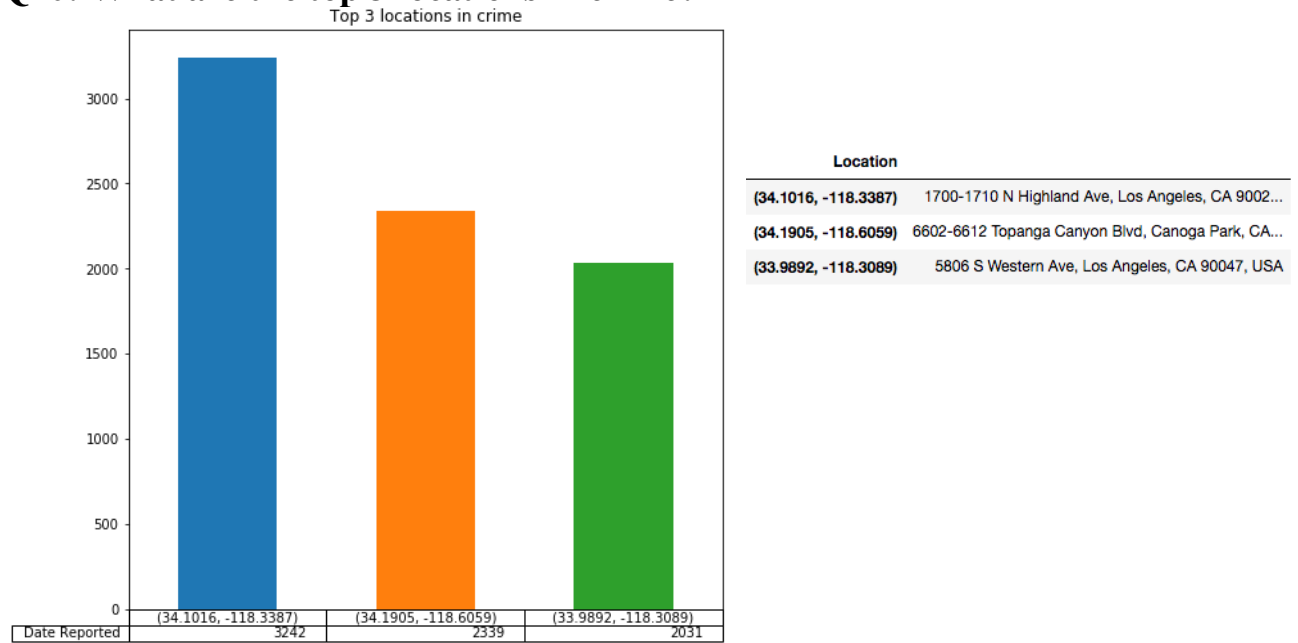|	101	501	502	108	102	203	122	104	707	404
Date Reported	380158	350830	218740	121454	85035	76215	64883	35014	30554	23834
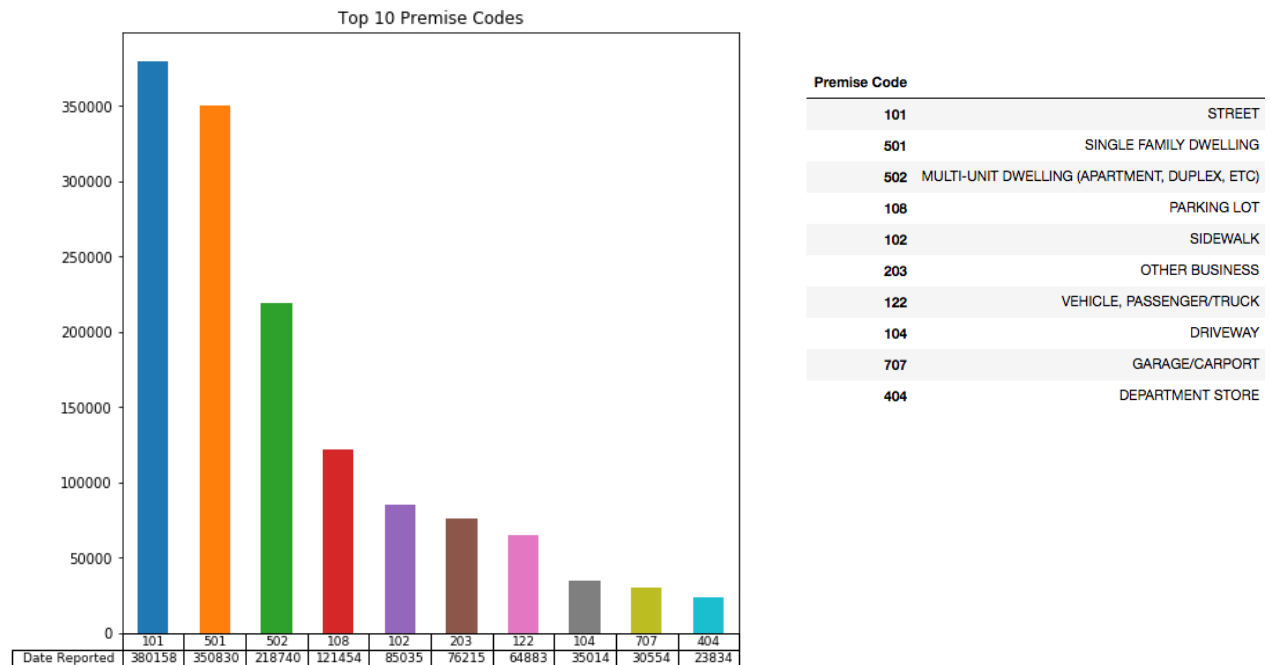
Crimes occurred the most in the street. Street is followed by single family dwelling. 10th most occurred place is the department stores.

Q9: Which weapon is used the most?

Top 10 Weapon_code_top10 Codes

Weapon Used Code	
400	STRONG-ARM (HANDS, FIST, FEET OR BODILY FORCE)
511	VERBAL THREAT
500	UNKNOWN WEAPON/OTHER WEAPON
102	HAND GUN
109	SEMI-AUTOMATIC PISTOL
200	KNIFE WITH BLADE 6INCHES OR LESS
207	OTHER KNIFE
106	UNKNOWN FIREARM
307	VEHICLE
101	REVOLVER

	400	511	500	102	109	200	207	106	307	101
Date Reported	343895	46952	44193	27105	10731	10120	7513	6424	5768	4842

Hands, fist, feet or bodily force are most used as a weapon. Verbal threat is the second most used weapon. While hand gun is the fourth most used weapon, revolver is the 10th most used weapon.

Q10: What are the top 3 locations in crime?

Top 3 locations in crime

Location	
(34.1016, -118.3387)	1700-1710 N Highland Ave, Los Angeles, CA 9002...
(34.1905, -118.6059)	6602-6612 Topanga Canyon Blvd, Canoga Park, CA...
(33.9892, -118.3089)	5806 S Western Ave, Los Angeles, CA 90047, USA

N Highland Ave (Hollywood), Topanga Canyon Blvd (Canoga Park) and Western Ave (Koreatown - Hollywood) are the top 3 locations in which crime reported.