CRIME REPORT ANALYSIS

Tools used: Power BI

This Data Set Contains:

- **DR_NO -** This column likely represents the Report Number.
- **Date Rptd -** This column indicates the date when the crime was reported to the authorities.
- **DATE OCC -** This column represents the date on which the crime actually occurred.
- **AREA CODE -** This column represents the Area Code. In the context of crime reports.
- **AREA NAME -** This column contains the name or label of the specific area where the crime occurred.
- **Rpt Dist No -** This column likely refers to the Report District Number.
- **Crm Cd -** This column represents the Crime Code.
- **Crm Desc -** This column contains the description of the crime corresponding to the Crime Code.
- **Vict Age-** This column represents the age of the victim involved in the reported crime.
- **Vict Gender -** This column indicates the gender of the victim.(F - Female, M - Male, X - Unknow)
- **Vict Descent -** This column denotes the ethnic or racial descent of the victim. (Descent Code: 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)
- **Premis Cd -** This column represents the Premises Code. It indicates the numerical code assigned to describe the type of location where the crime occurred, such as a residence, commercial establishment, or public area.
- **Premis Desc -** This column contains the description or name of the premises corresponding to the Premises Code.
- **Weapon Used Cd -** This column represents the Weapon Used Code. It denotes the numerical code assigned to describe the type of weapon, if any, used in the commission of the crime.
- **Weapon Desc -** This column contains the description or name of the weapon corresponding to the Weapon Used Code.
- **Status -** This column represents the Status of the crime report.
- **Status Desc -** This column contains the description or name of the status corresponding to the Status Code.
- **LOCATION -** This column represents the specific location or address where the crime occurred.

Approach

Data Loading:

- Load data from the “Crime_Data_from_2020_to_Present.csv” file.

1

2

Data Cleaning with Power Query:

- Use Power Query to clean and preprocess the dataset for better results.

3

Data Refresh and Visualization:

- Refresh the data to ensure it’s up-to-date.
- Create visual representations using bar charts, geographic maps, tables, and tiles.

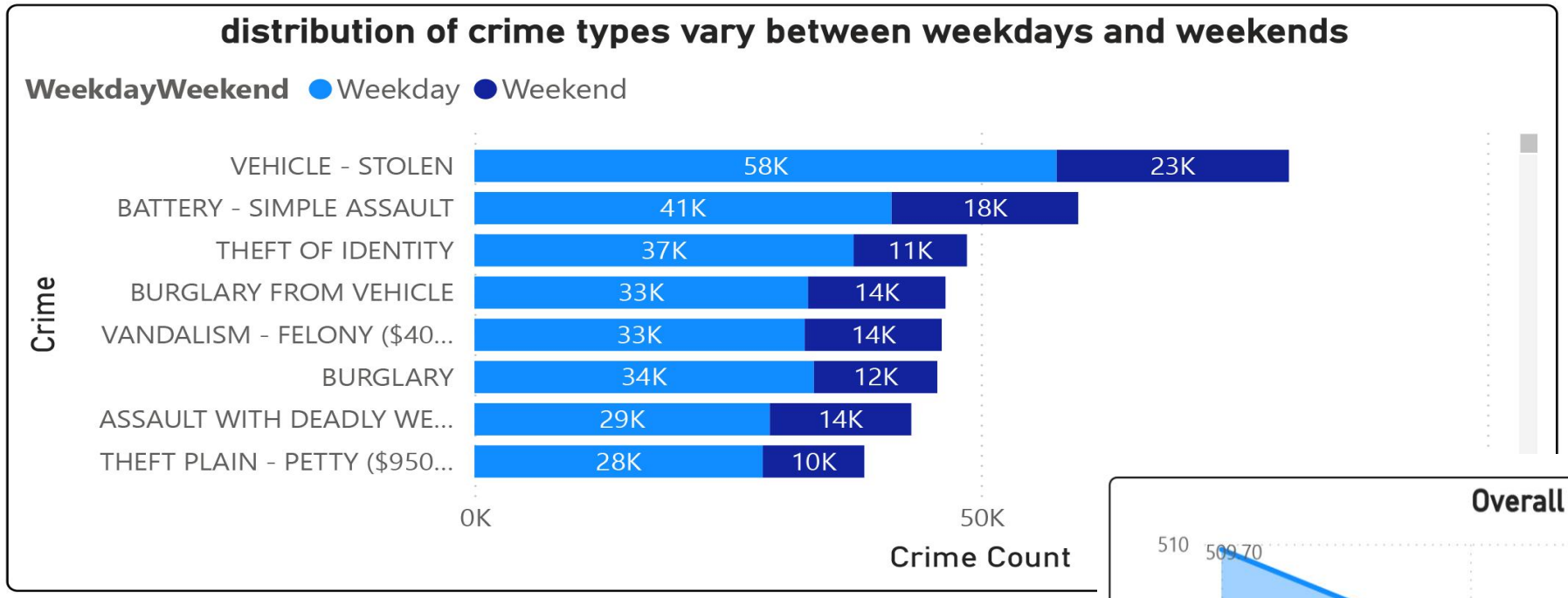
Data insights

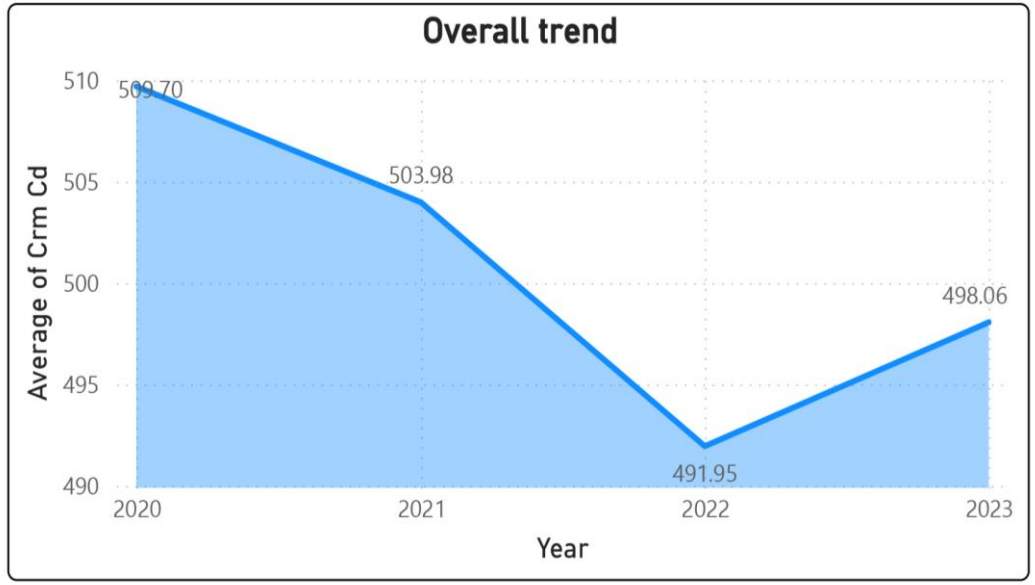
Gender Disparities in Victims:	• It was observed that a higher number of **female** individuals were victims of crime.
Weekday Vehicle Theft:	• **Vehicles** were more frequently stolen on **weekdays**.

Crime Rate Trends:	• The overall crime rate exhibited significant fluctuations:
	  • In **2020**, the crime rate was notably high.
	  • Due to the pandemic (COVID-19), the crime rate decreased in **2022**.
	  • However, in 2023, it slightly **increased** again.

High Crime Regions:	• The Pacific, South East, and West regions experienced elevated crime rates.
Common Tools Used by Criminals:	• Cutting devices were commonly employed by criminals.
Average Victim Age:	• The average age of crime victims was approximately 40 years.

Total crime reports	Avg. Age of Victim	Male Victims	Female Victims
752.91K	39.57	311.96K	590.23K





PowerBI Dashboard

Crime data report

Total crime reports	Avg. Age of Victim	Male Victims	Female Victims
752.91K	39.57	311.96K	590.23K

Year: 2020 | 2021 | 2022 | 2023

Top 10 Crime Areas

AREA NAME	Crime Count
Pacific	43880
Southwest	42061
Southeast	38577
Olympic	38197
Wilshire	35550
Rampart	35013
West LA	34615
Van Nuys	31941
West Valley	31514
Topanga	30481

Geographic locations

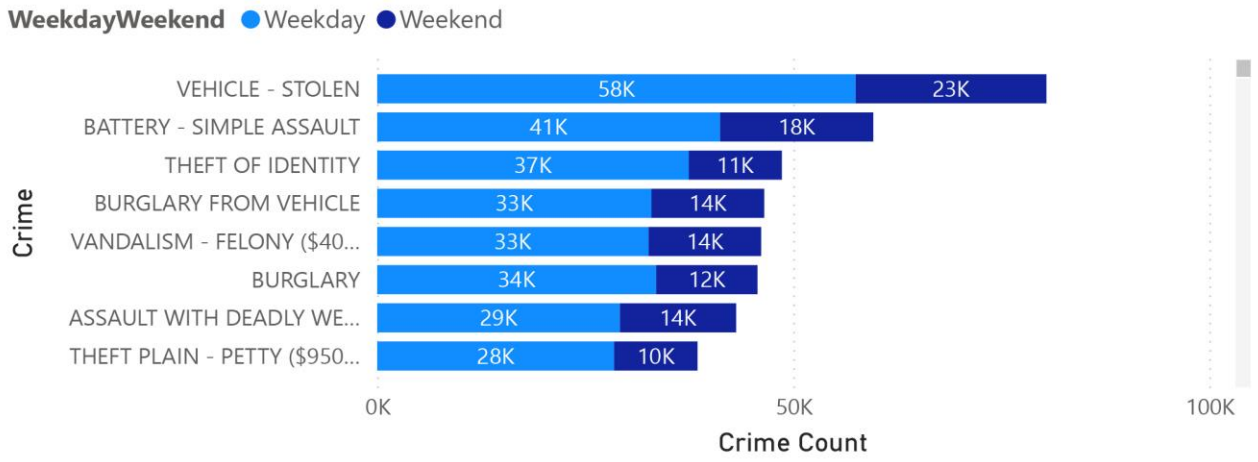
Most Common Crimes

Crime	Crime Count
VEHICLE, STOLEN - OTHER (MOTORIZED SCOOTERS, BIKES, ETC)	1388
VIOLATION OF COURT ORDER	5215
VIOLATION OF RESTRAINING ORDER	9598
VIOLATION OF TEMPORARY RESTRAINING ORDER	715
WEAPONS POSSESSION/BOMBING	30

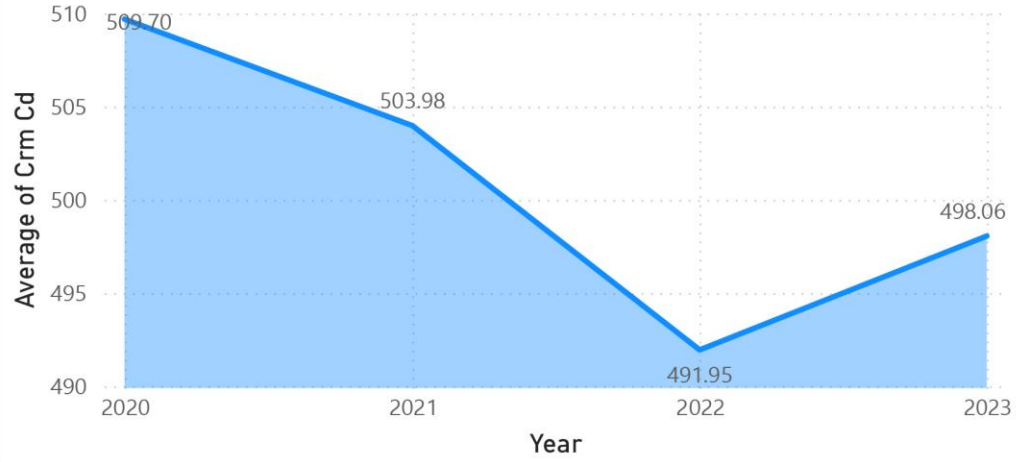
Top 5 used Weapons

Weapons
UNKNOWN TYPE CUTTING INSTRUMENT
UNKNOWN WEAPON/OTHER WEAPON
UZI SEMIAUTOMATIC ASSAULT RIFLE
VEHICLE
VERBAL THREAT

distribution of crime types vary between weekdays and weekends



Overall trend



Suggestions

- Consider expanding survey coverage in the top 10 crime areas.
- Focus on weekdays for avoid the crimes.
- Pay particular attention to female respondents.
- Install trackers on vehicles for better monitoring and security.
- Implement safety protocols specifically targeting individuals below 40 years of age.