

Crime Data Analysis

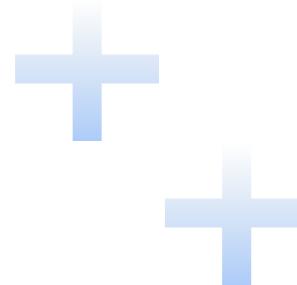
Dataset: Individual_Incident_2020.csv

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INTRODUCTION

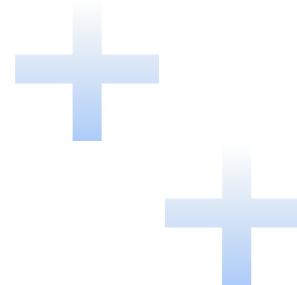


- The file Individual_Incident_2020.csv has crime incident data for the year 2020.
- It contains 53 columns such as state, incident_number, total_offense and total_victim.
- The dataset includes different offense types like theft_offense, violence_offense and drug_offense.
- It also has details about gun_involvement, property_value and victim information.

PROBLEM STATEMENT

- To load and clean the Individual_Incident_2020.csv dataset.
- The dataset contains 53 columns with different data types such as string and float.
- The file size and processing caused issues while exporting the cleaned dataset.

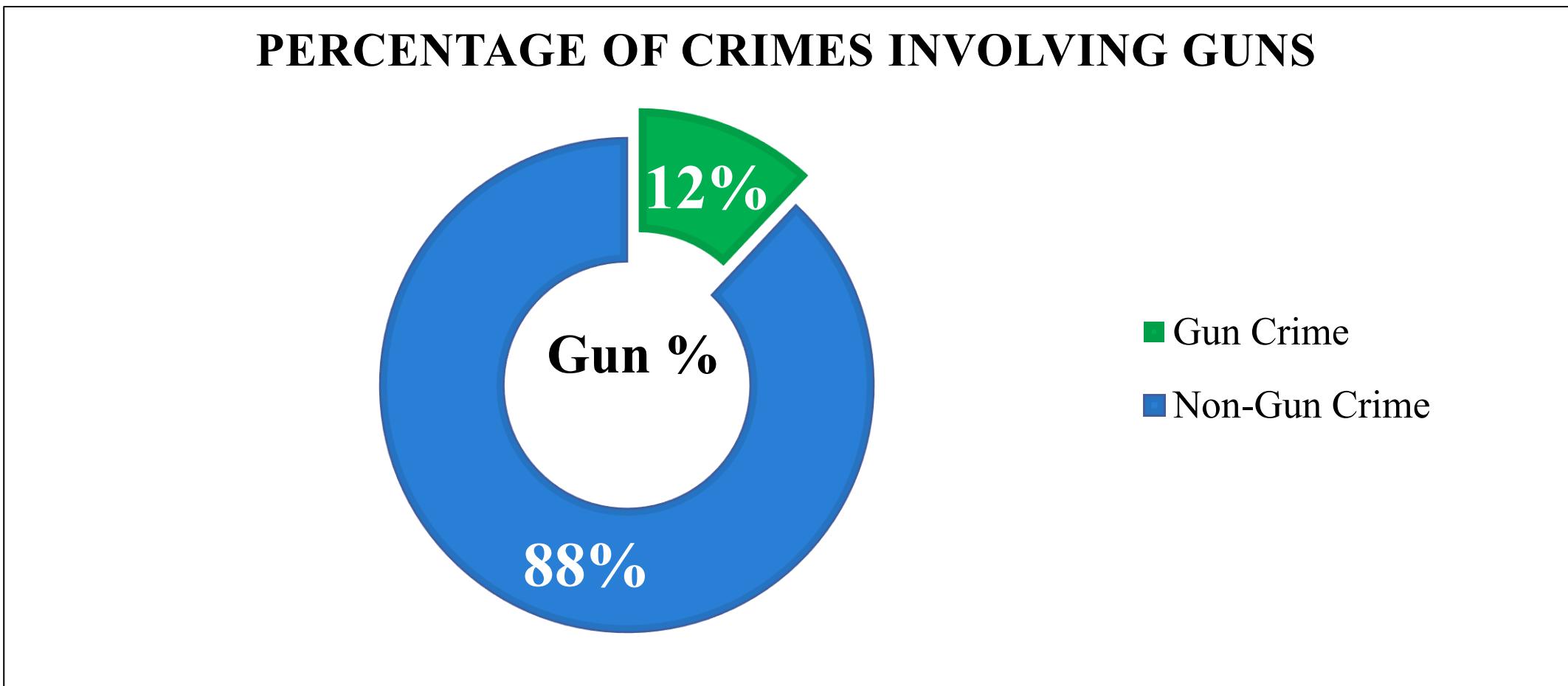
METHODOLOGY



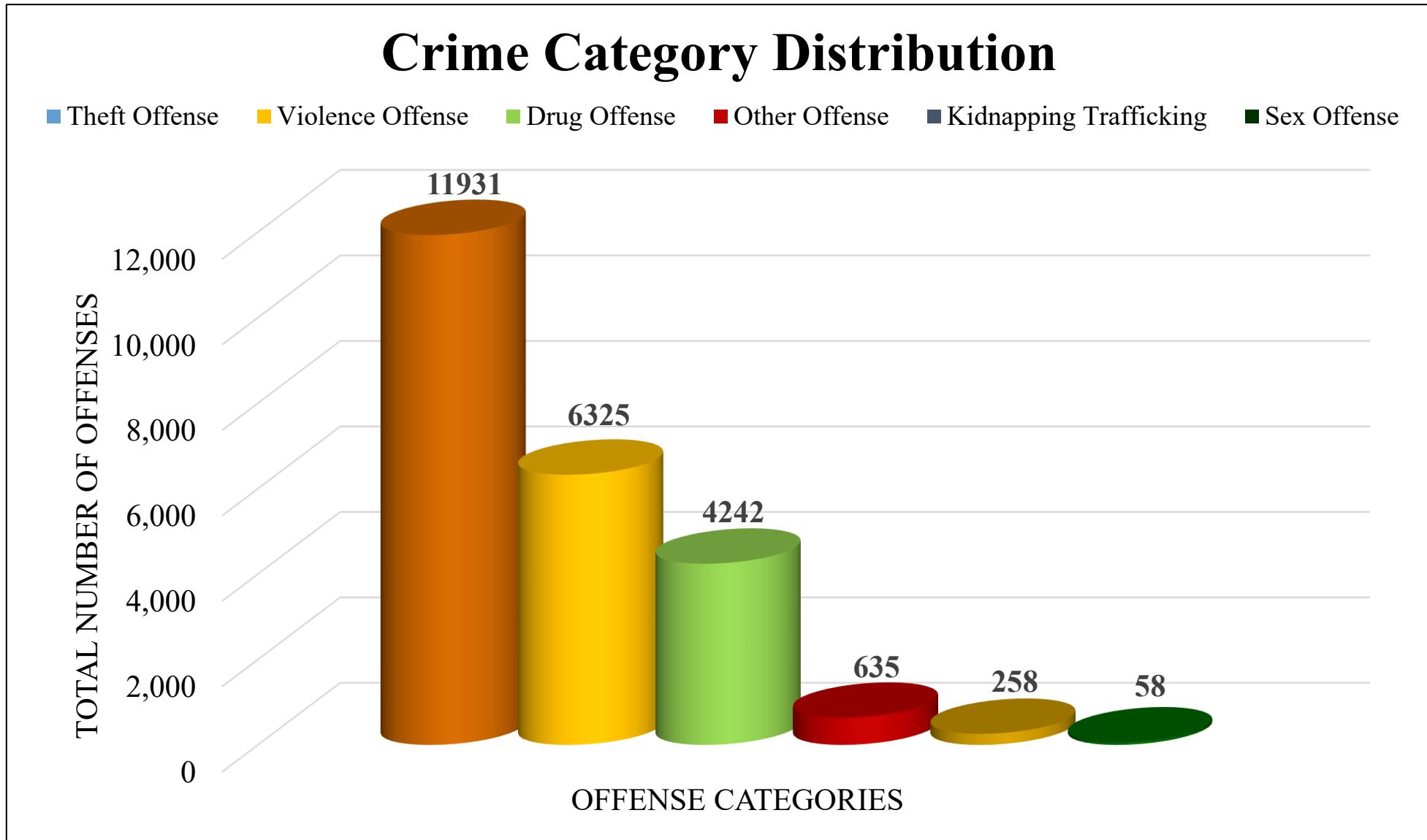
- Data cleaning and analysis was done using **Anaconda Navigator (Jupyter Notebook)**.
- To view the data columns and create pivot charts, **MS-Excel** was used.
- Interactive dashboard was created using **Power BI Desktop**.
- SQL queries were executed in **MySQL Workbench**.

RESULTS

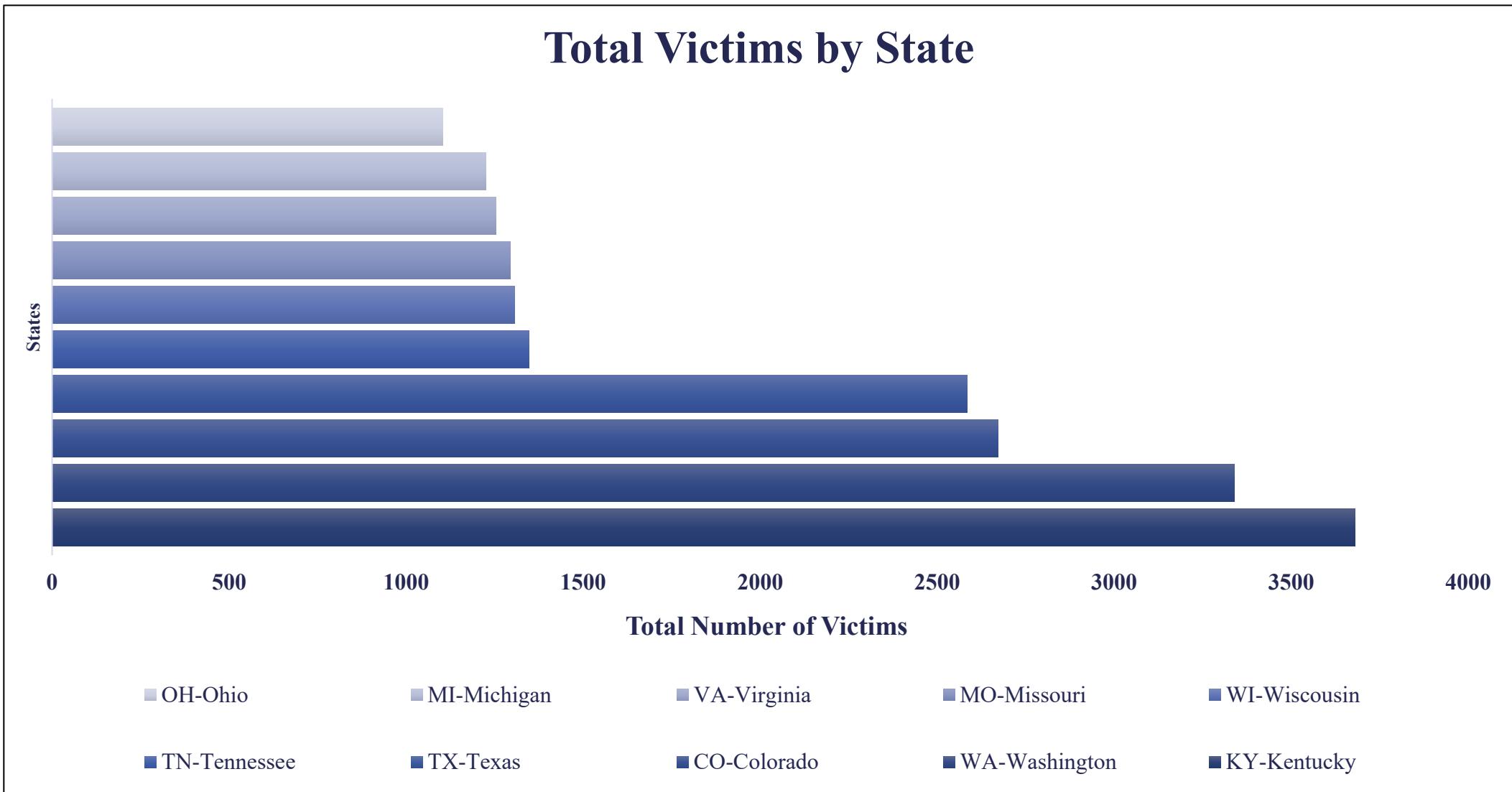
- The data clearly shows that non-gun crimes are much higher than gun-related crimes in 2020.



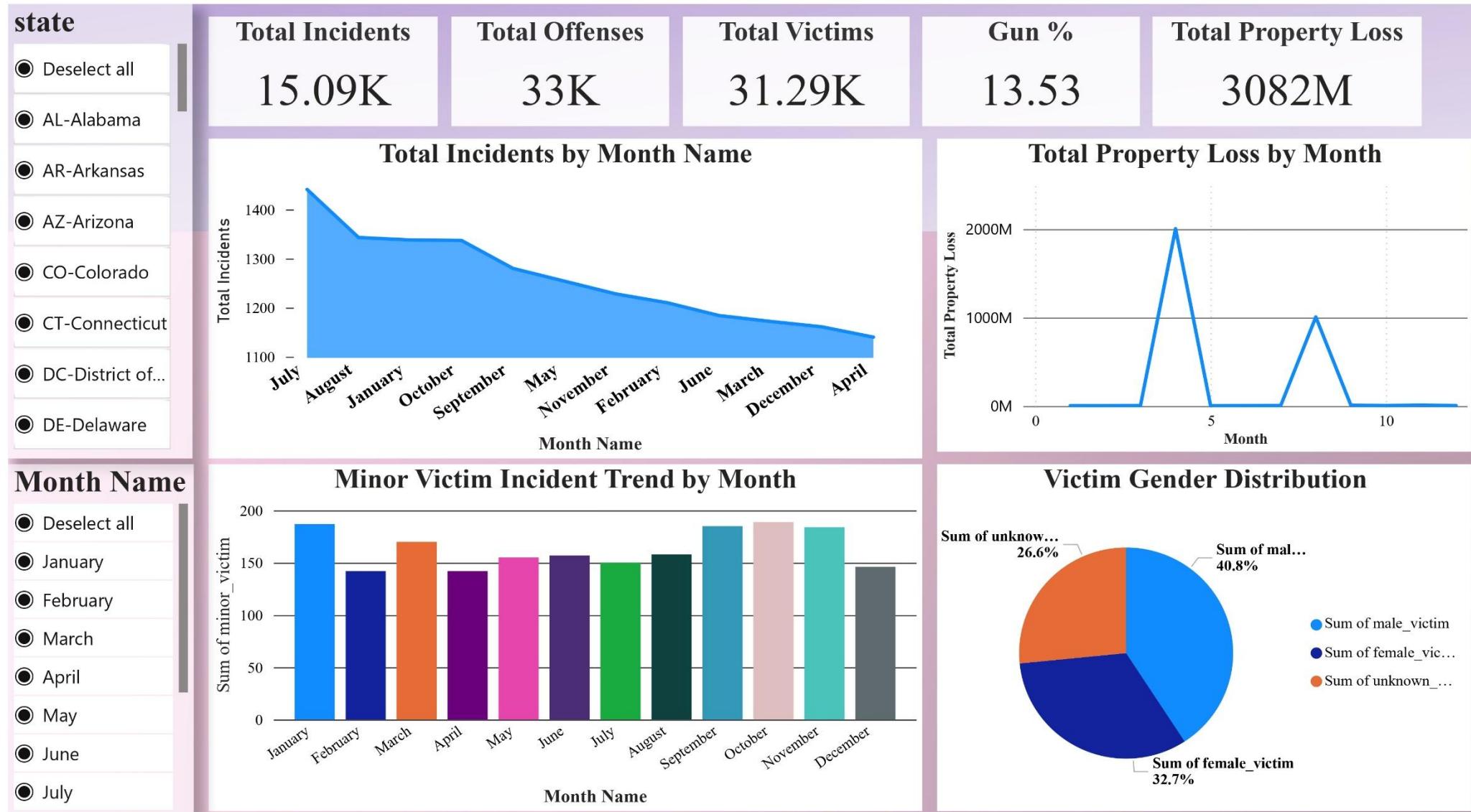
- The data shows that theft_offense is much higher than all other offense types.



- This means crime impact is not equal across all states.



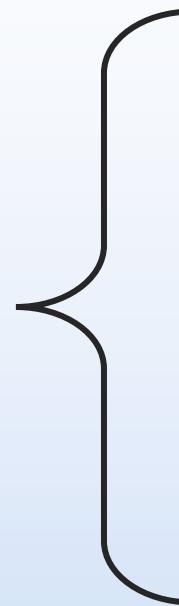
- This **Power bi dashboard** shows a complete view of crime data by showing total incidents, victims, gun involvement, property loss, and monthly patterns.



ANALYSIS AND INSIGHT+

- **Which victim group is mostly affected?**
→ male_victim count is higher than female_victim and unknown_sex_victim.
- **What is the percentage of gun_involvement?**
→ Around 12–13% of total incidents involve gun_involvement.
- **Which states have more total_victim cases?**
→ States like Texas and Washington show higher total_victim numbers.
- **Is property_value loss significant?**
→ property_value shows high loss in some months, especially mid-year.
- **Are all offenders known?**
→ No. Many cases are marked as offender_not_known.

THANK YOU



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