Crime in Baltimore Data Analysis

Data Management 604

Ву,

Team 2:

Ajith

Chandralekha Bhaviri

About the Dataset

This dataset involves entities like district, location, type of weapon used, total incidents, date and time of the crime, etc..

Introduction

Aim of this analysis is to extract useful insights from crime in Baltimore dataset like:

Avg. no. of crimes occurred in a day

At which instance most crimes occurred

Mostly used weapon

Most common crime to occur

and more

Expected outcome:

Visualize the trends in Baltimore crime data.

The most used weapon and least most made crime type.

The trends & seasonality in the data.

The correlation between the crime location and type of crime.

Identify and visualize the graphs and charts.

Technologies used

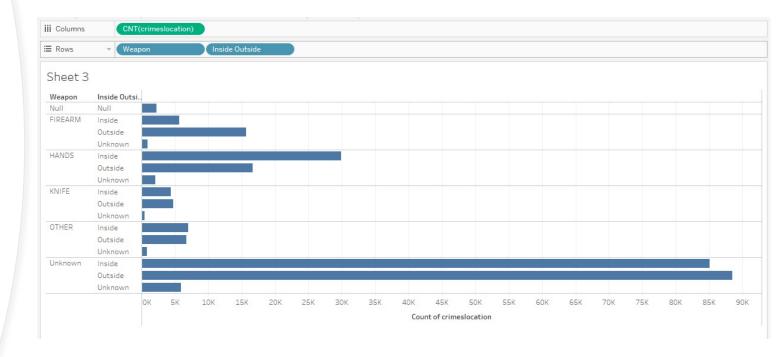


Data Visualization analysis

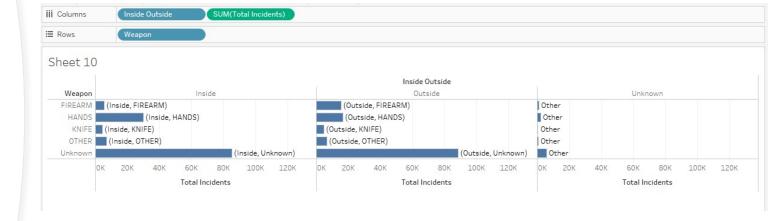
- 1. This data shows which weapon is used for different kinds of crime.
- 2. This visualization determines the most used weapon in the crime locations.



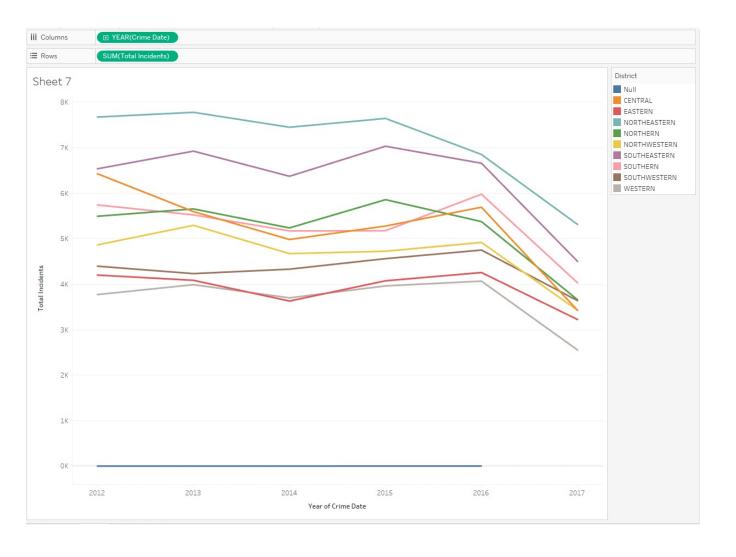
Data shows which weapon is mostly used at inside or outside attempted crimes at many locations.



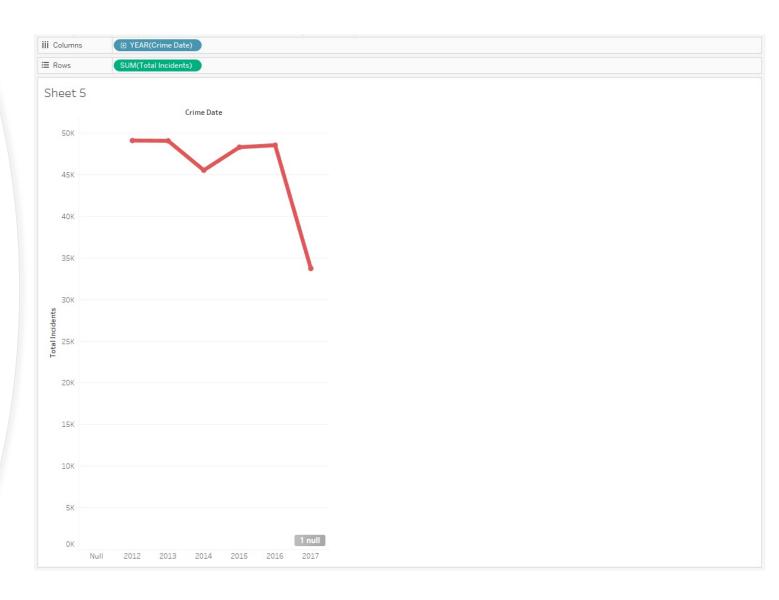
Data compares the most used weapon for the crimes happened inside and outside to the count of total incidents.



This graph represents total no. of incidents happened during 2012-2017 in every district.



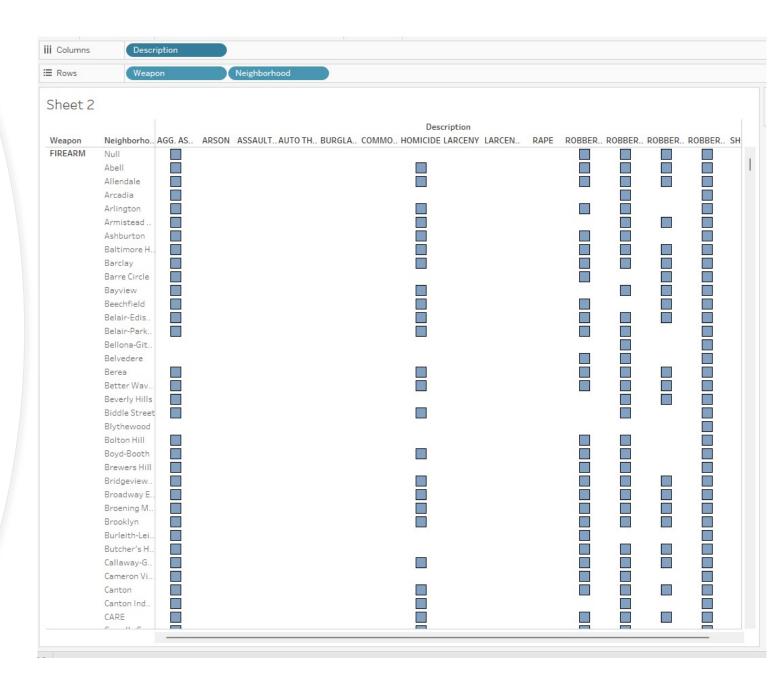
This shows the declined graph of total crimes happened through the years 2012-2017



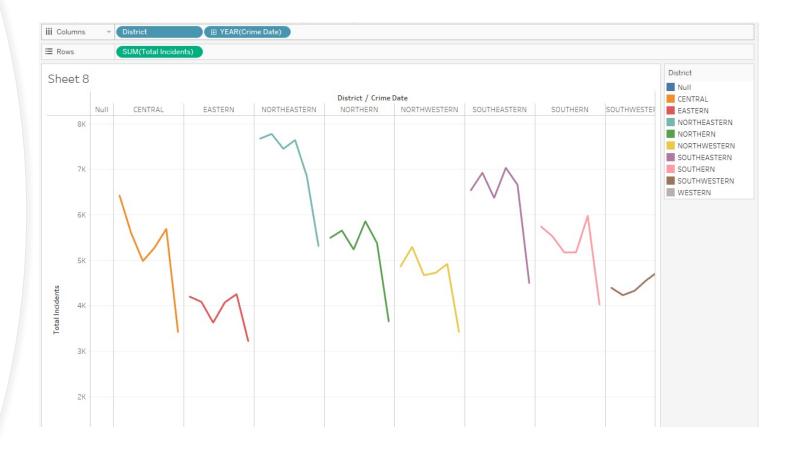
This graph shows total incidents happened in each district with the weapon used the most.



This shows which weapon is used in varied crimes at different neighborhoods.



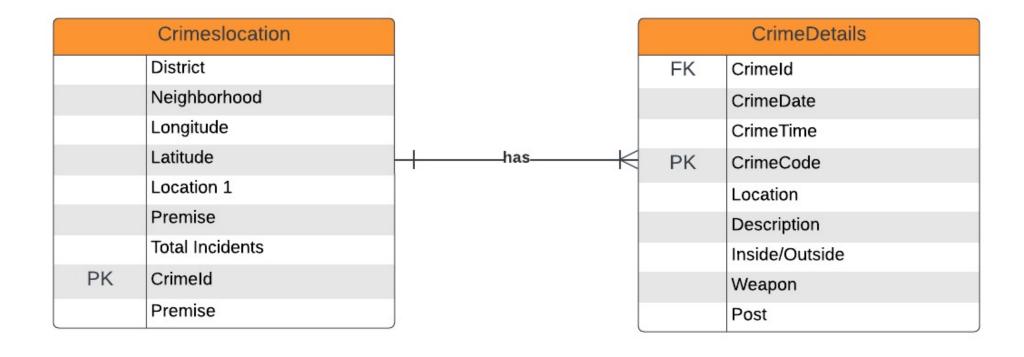
This depicts the year and total crimes happened in each district.



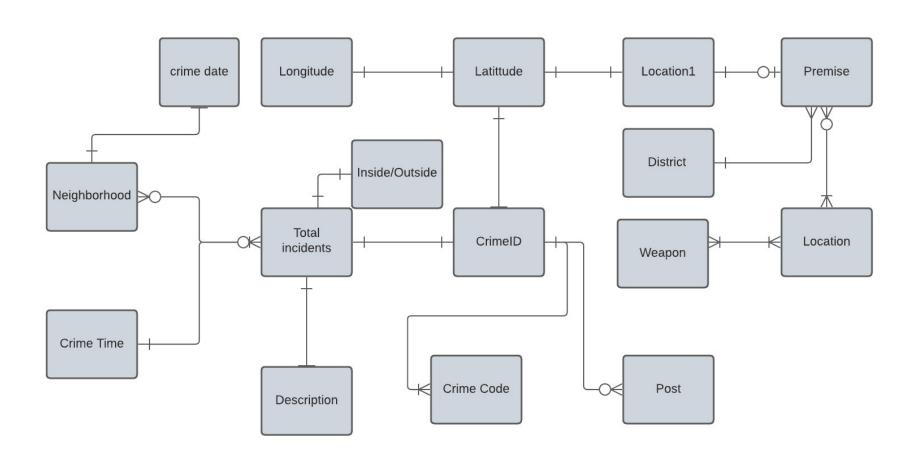
This depicts total number of crimes at each district by every year during 2012 to 2017 which occurred inside and outside.

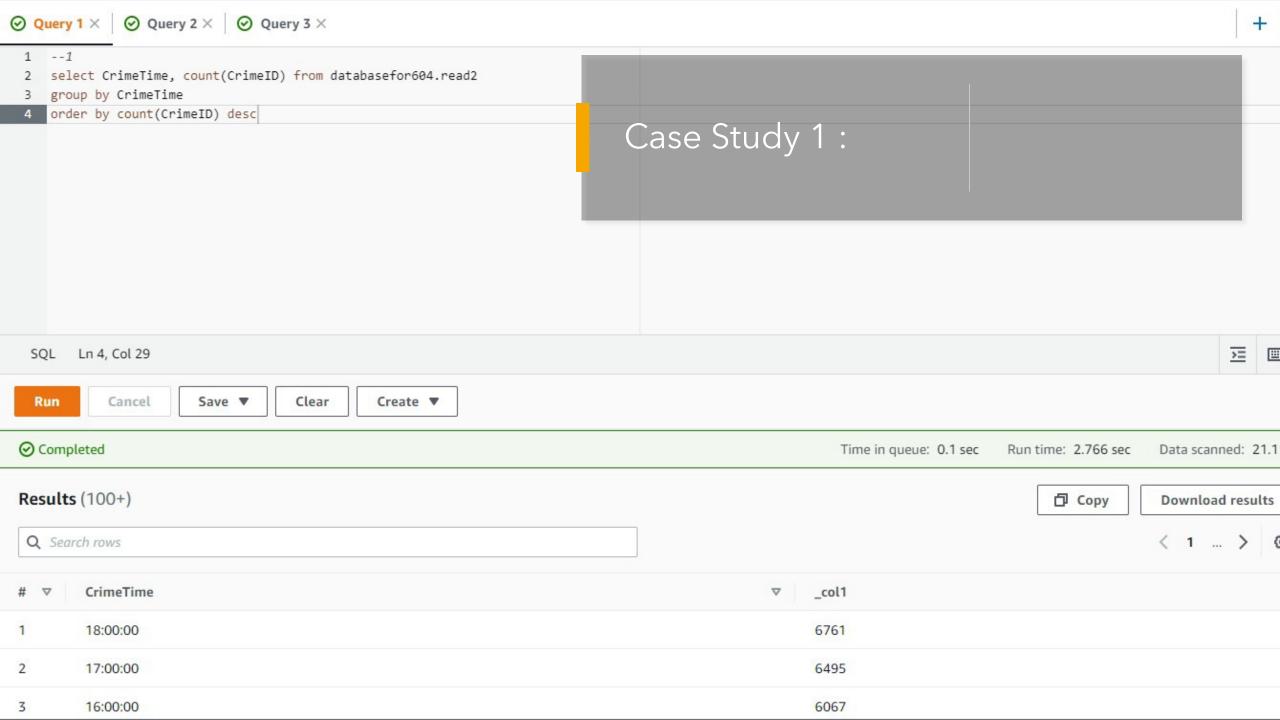


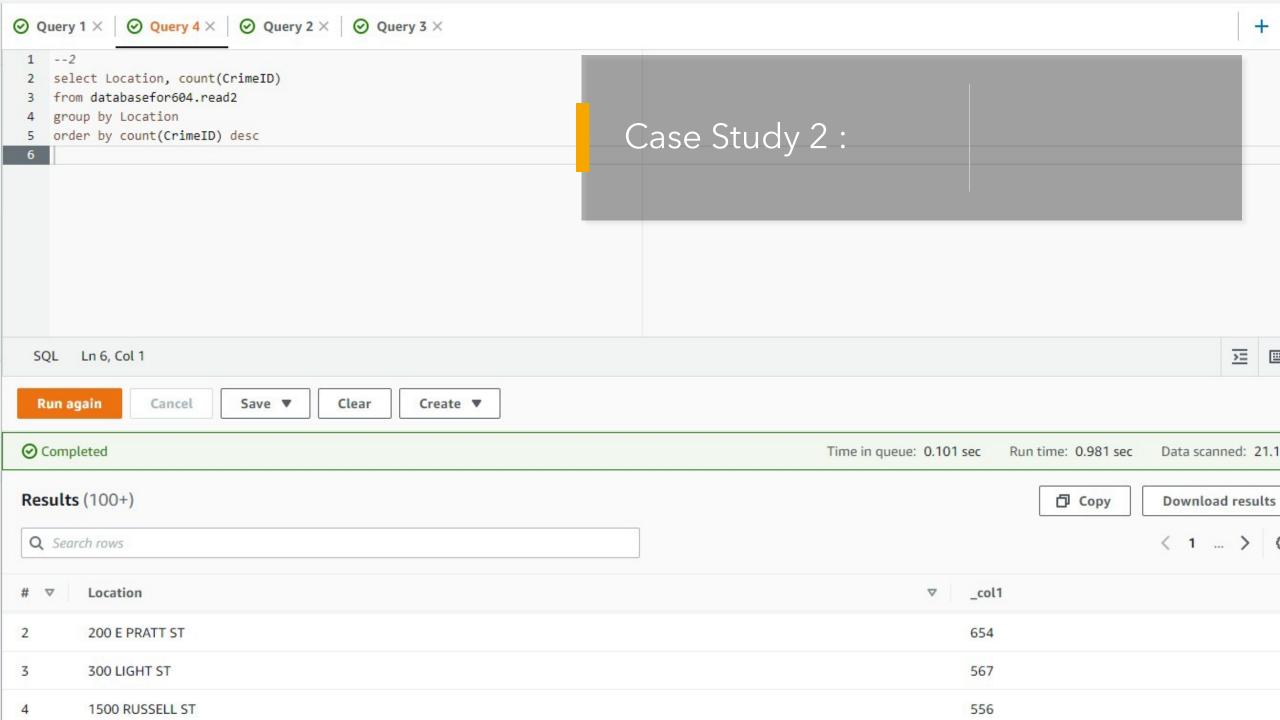
Entity Relationship diagram

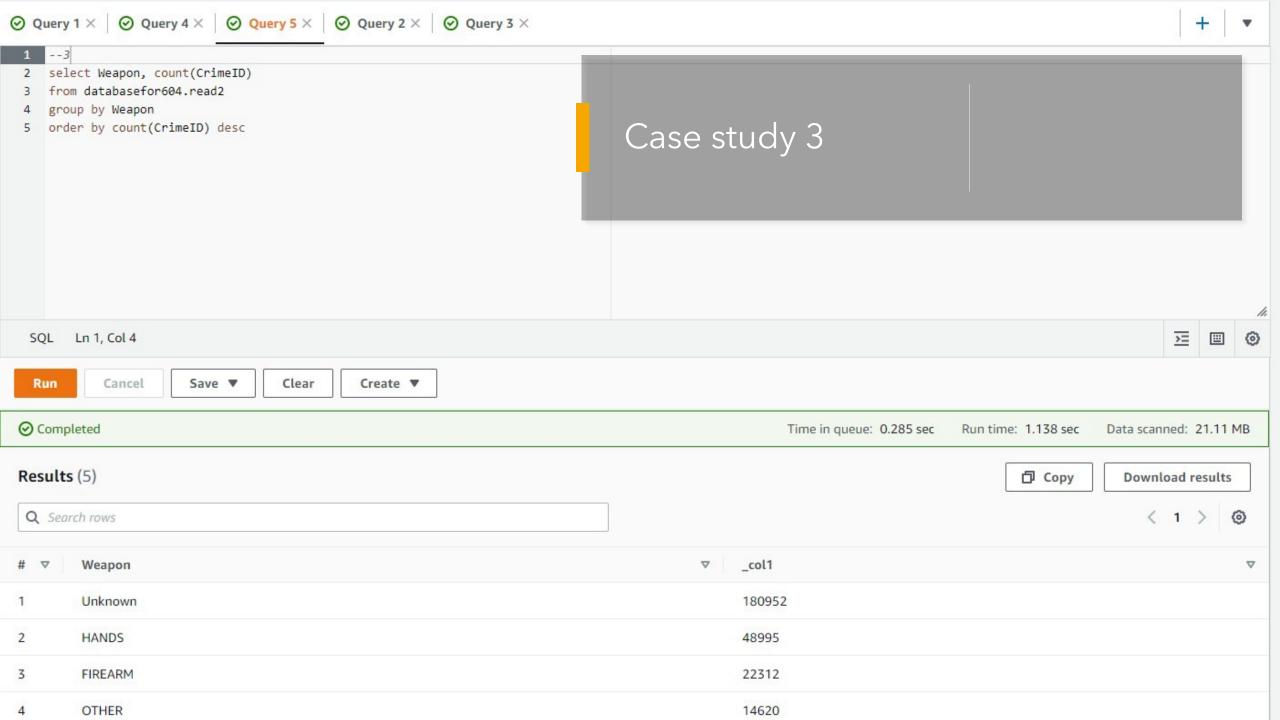


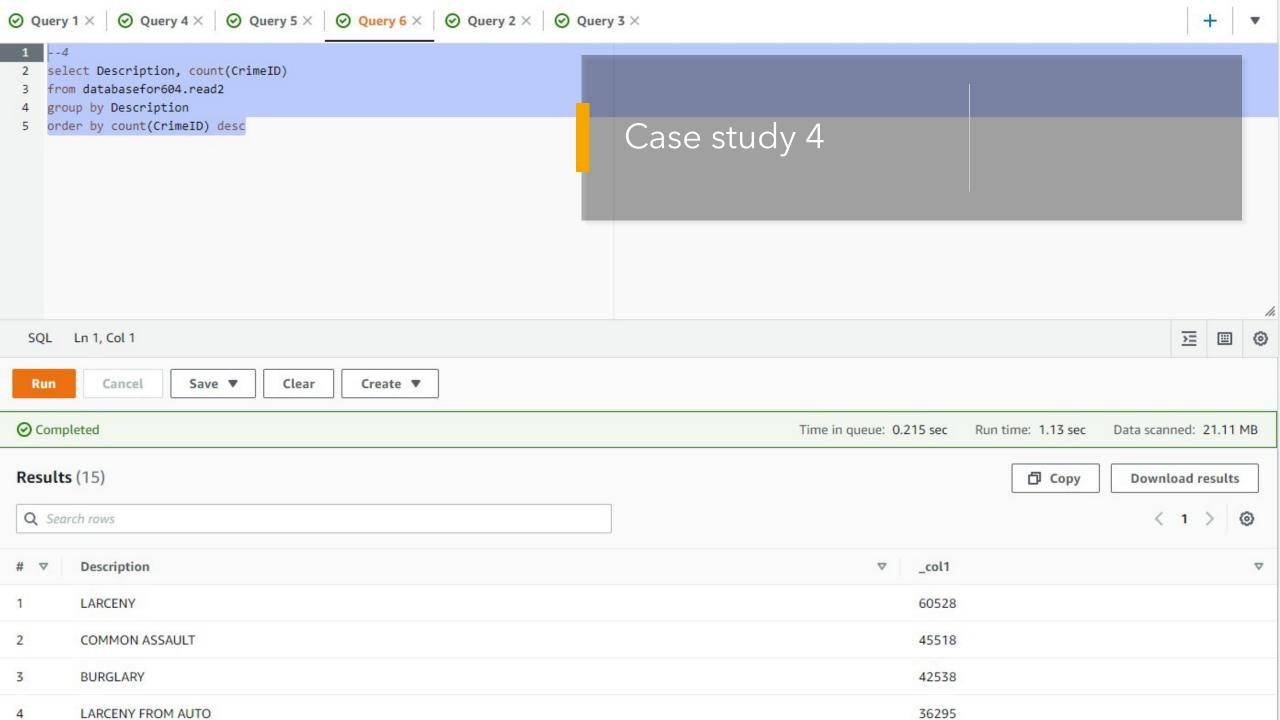
Entity Relationship diagram

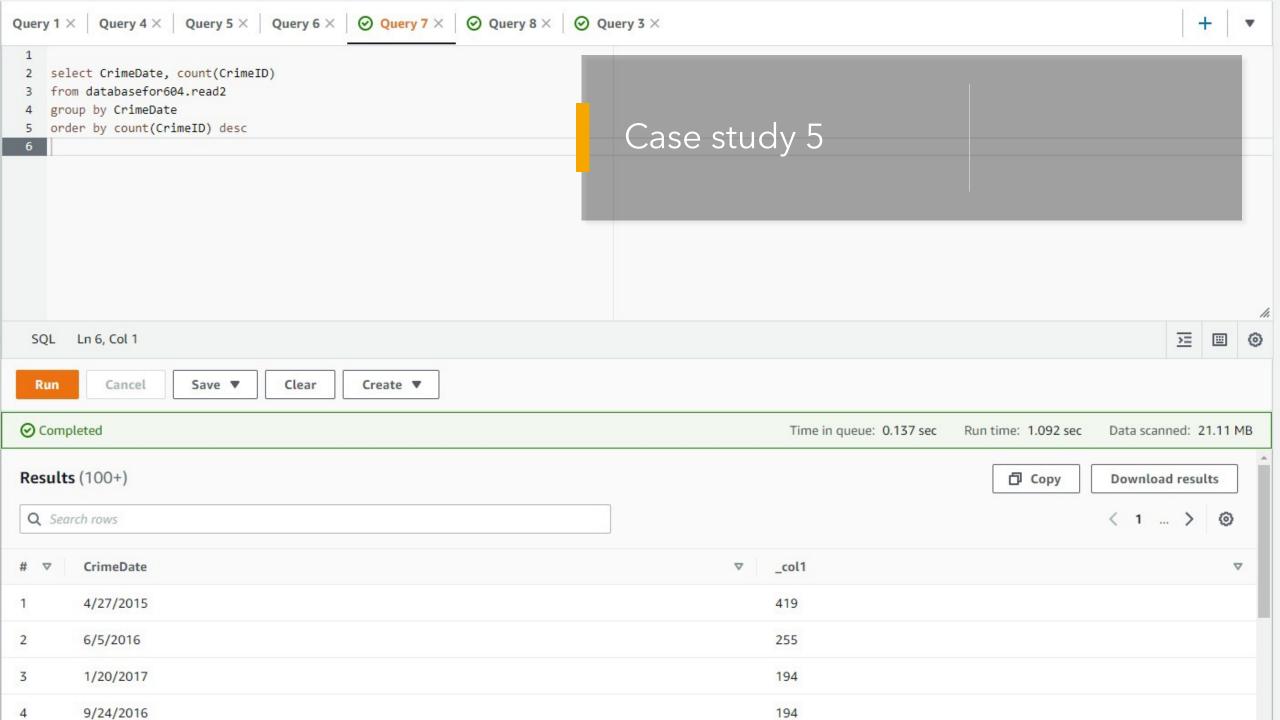


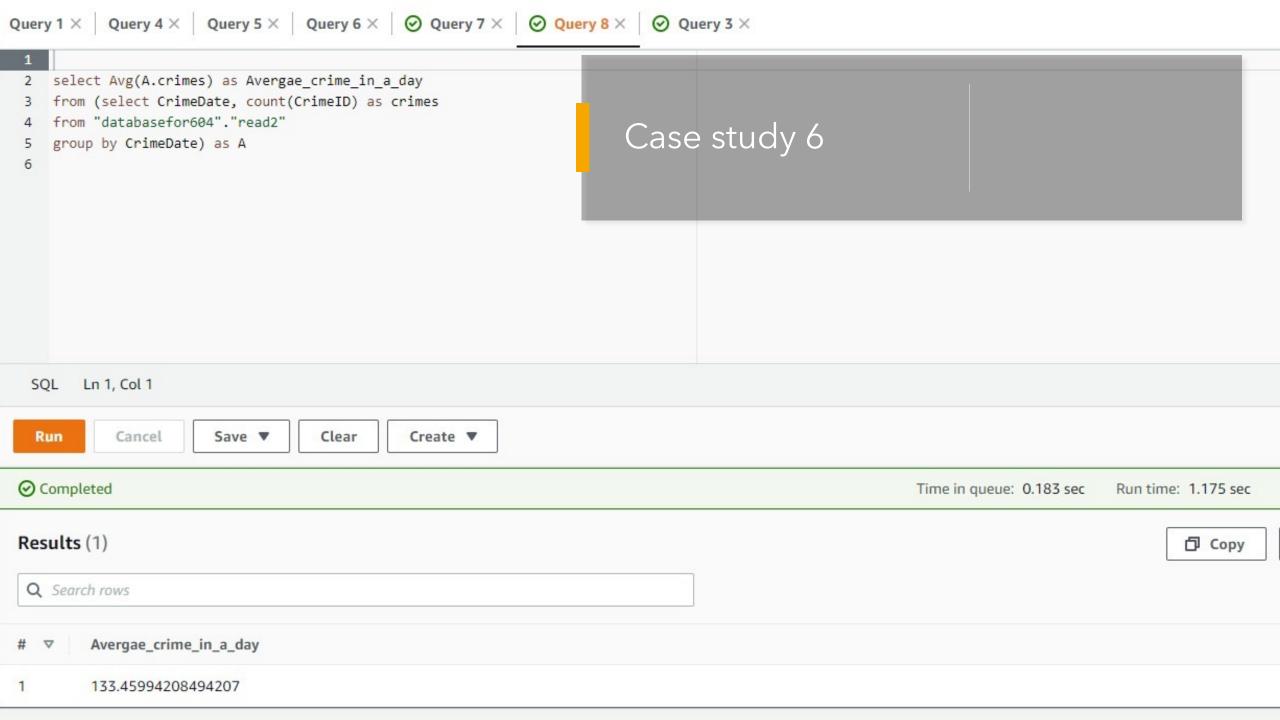






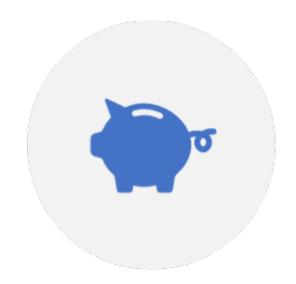






Cost Estimation





\$200,000/year for two data

\$10,000/year for technology

Conclusion

• It is important to engage in data analysis to understand how victims are affected by crime, and whether the response to their experience is adequate and effective.

The End