

Toronto Neighbourhood and Crimes

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Domain

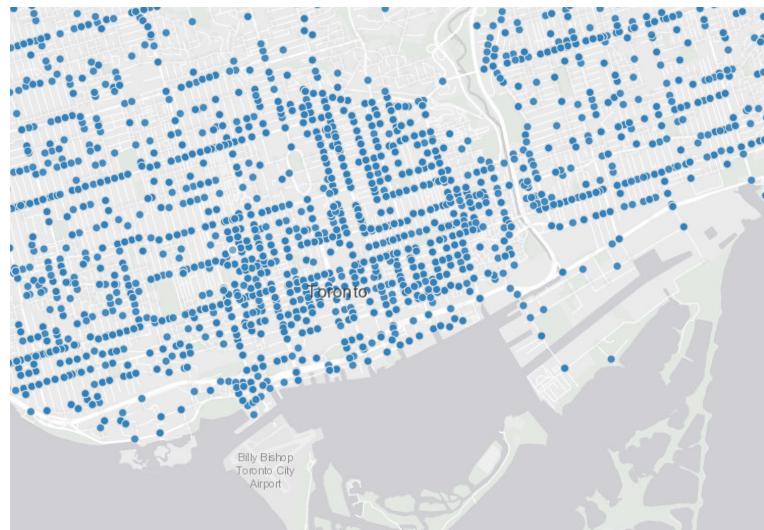
Toronto Police Crime and Neighbourhood Data

Neighbourhood (Name, [hood_ID](#), population, robberies [2014-2020])

EquityScore ([rank](#), Name, score)

CrimeIndicator ([Index](#), event_ID, oDate, Premise, oHour, crime, [hood_ID](#))

Shooting ([Index](#), event_ID, oDate, oHour, oTimeRange, [hood_ID](#))



Investigative Questions

1. For each neighbourhood, where do certain crimes happen the most, and what premise is most likely to have a crime occur in?
2. Is the robbery rate in a neighbourhood correlated with the equity score of said neighbourhood?
3. Has the number of shootings been increasing or decreasing over the past few years, and has covid affected it?

Results: Question 1

1. For each neighbourhood, where do certain crimes happen the most, and what premise is most likely to have a crime occur in?

Crime Types: Theft over \$5000, Robbery, Assault, Break and Enter, and Automobile Theft

Premises: Commercial area, House, Outside, Apartment

Results: Question 1

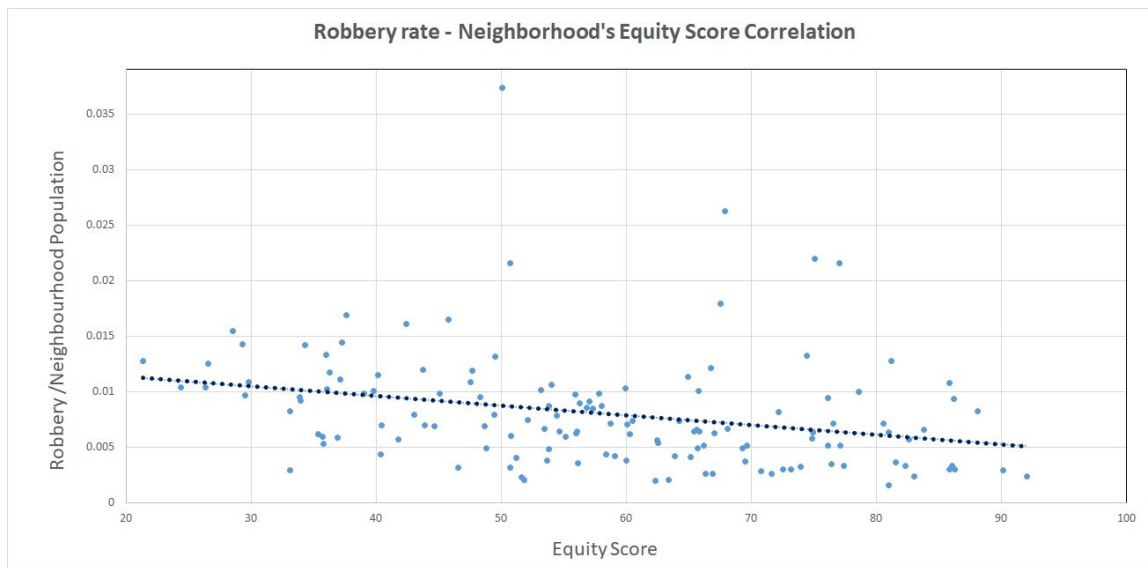
- Each neighbourhood varies in the premise where a crime occurs in.
- The most prevalent crimes mostly occurred outside, roughly half occurred at houses, and roughly half of that occurred in apartments and commercial area.

Results: Question 2

2. Is the robbery rate in a neighbourhood correlated with the equity score of said neighbourhood?
- We learned that robbery rate is correlated with equity score, but it is not affected strongly

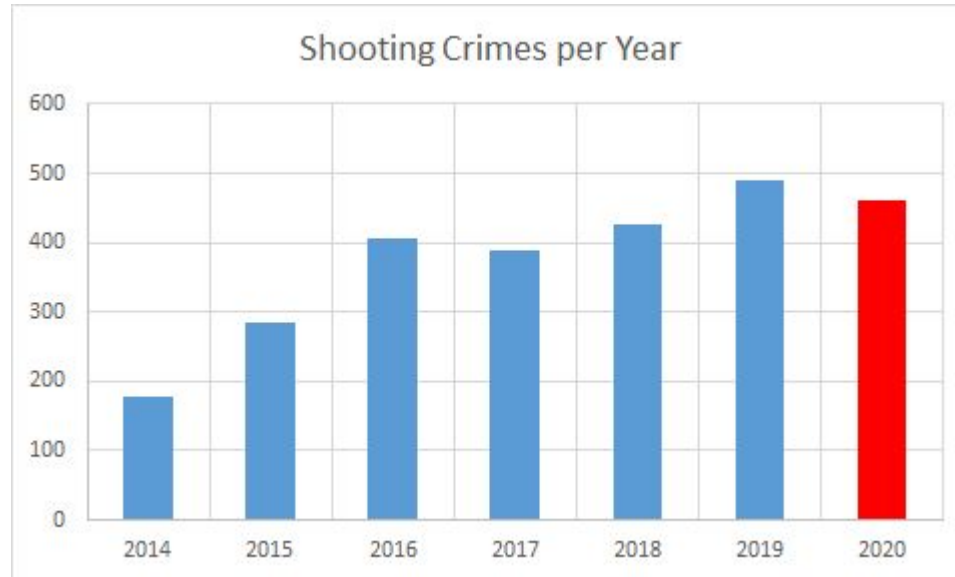
Results: Question 2

2. Is the robbery rate in a neighbourhood correlated with the equity score of said neighbourhood?



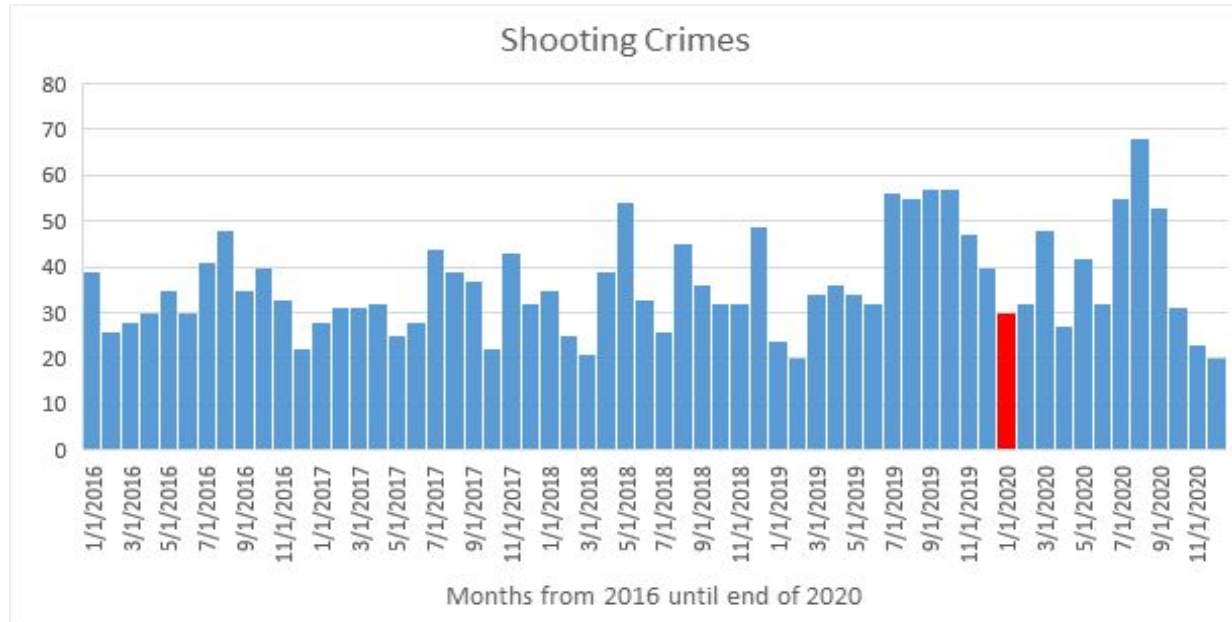
Results: Question 3

- Has gun violence been increasing or decreasing over the past few years, and has covid affected it?



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- Has gun violence been increasing or decreasing over the past few years, and has covid affected it?



Challenges

Data Cleanup (Technical)

- Reformat the dataset into something we could investigate through queries (ex. DNF to null)
- Switch to new dataset to find ones that have one common useful attribute (ex. Neighbourhood names and equity score)

Investigation Questions (Non-Technical)

- We took a long time trying to find interesting and relevant investigative questions
- Went through multiple sets of ideas due to the limits of finding valid datasets
- Express queries that would give us meaningful results for each question

Lessons

What Nazila learned

How crucial it is to define a good schema and store informative data.

Lessons

What Richard learned

Datasets can be widely found anywhere on the internet, and are accessible to use with SQL.