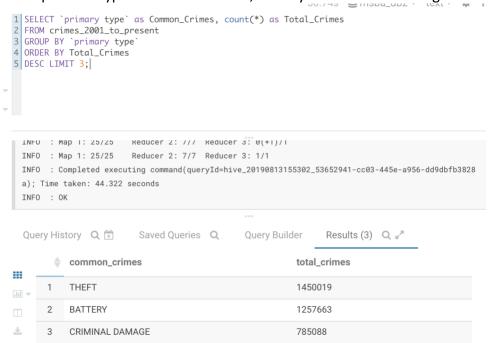
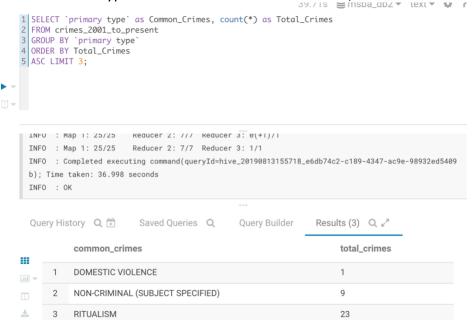
Xiaoting(Theresa) Liu Chicago Crime Data

Q1: What are the top 3 seen types of crimes (Crimes that are mostly common)? The top 3 seen types of crimes is Theft, Battery and Criminal Damage.

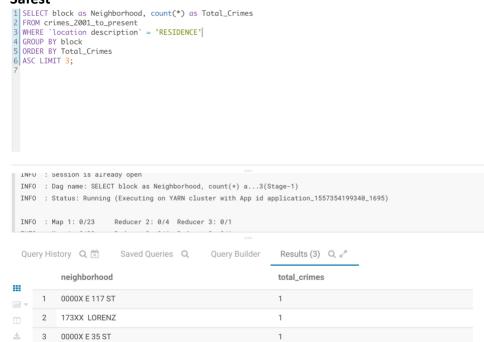


Q2. What are the least seen types of crimes (Crimes that are the least common)? The least seen types of crimes are Domestic Violence, Non-Criminal and Ritualism.

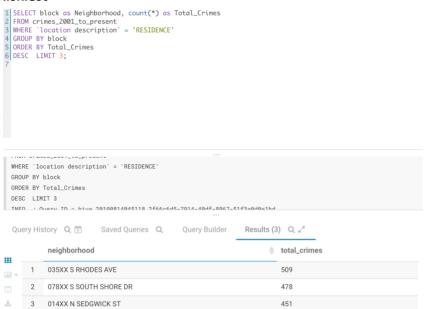


Q3. What are the top 3 safest and riskiest neighborhoods?

Safest



Riskiest

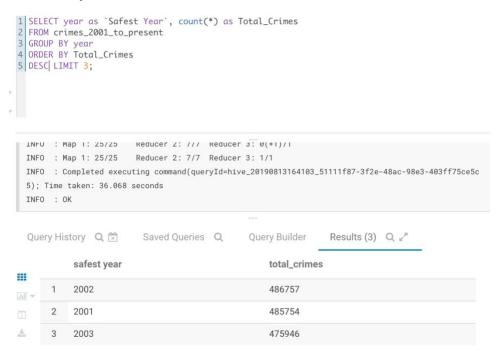


Location description has to be set as "residence" since we only concern about neighborhood.

Q4. Which were the safest 3 years, and riskier 3 years? **Safest 3 years**

```
1 SELECT year as `Safest Year`, count(*) as Total_Crimes
2 FROM crimes_2001_to_present
3 GROUP BY year
 ORDER BY Total_Crimes
5 ASC LIMIT 3;
 INFO : Map 1: 25/25 Reducer 2: /// Reducer 3: 0(+1)/1
 INFO : Map 1: 25/25
                    Reducer 2: 7/7 Reducer 3: 1/1
 0); Time taken: 36.962 seconds
 INFO : OK
 Query History Q 🛱
                                       Query Builder
                                                    Results (3) Q 🛂
                     Saved Queries Q
         safest year
                                          total_crimes
98989
         2019
ılıl 🔻
     2
         2015
                                          264143
         2018
                                          266849
```

Riskier 3 years



Q5: Which where the safest and riskier consecutive 3 years? (ex: 1996-1997-1998)

Safest Consecutive 3 years

```
1 SELECT
2 Crime_Year,
          Total_Crimes,
          SUM(Total_Crimes) OVER(
ORDER BY Crime_Year ROWS BETWEEN CURRENT ROW AND 2 FOLLOWING
          ) AS Crimes
         SELECT year as Crime_Year, count(*) as Total_Crimes
FROM crimes_2001_to_present
 10 GROUP BY year
11 ORDER BY year
12 ) as Year
13 ORDER BY Crimes
14 ASC LIMIT 3;
         GROUP BY year
ORDER BY year
15
16
17
   INFO : Session is already open
   INFO : Dag name: SELECT
      Crime_Year,
       Total_Crime...3(Stage-1)
   INFO : Tez session was closed. Reopening...
   Query History Q 🖄 Saved Queries Q Query Builder
                                                                             crime_year
                                                  total_crimes
                                                                                        crimes
         1 2019
                                                  98989
                                                                                        98989
         2 2018
                                                  266849
                                                                                        365838
```

Riskier Consecutive 3 years

```
1 SELECT
2 Crime_Year,
3 Total_Crimes) OVER(
5 ORDER BY Crime_Year ROWS BETWEEN CURRENT ROW AND 2 FOLLOWING
) AS Crimes
7 FROM (
8 SELECT year as Crime_Year, count(*) as Total_Crimes
FROM crimes_2001_to_present
10 GROUP BY year
11 ORDER BY year
12 ) as Year
13 ORDER BY Crimes
14 DESC|LIMIT 3;
15

Crime_Year,
    Total_Crime...3(Stage-1)
INFO : Status: Running (Executing on YARN cluster with App id application_1557354199340_1612)
INFO : Map 1: 0/23 Reducer 2: 0/7 Reducer 3: 0/4 Reducer 4: 0/1
```

		crime_year	total_crimes	crimes
(tr) ~	1	2001	485754	1448457
	2	2002	486757	1432087
±	3	2003	475946	1399047

Bonus Question: for all the above data points, how has it been evolving over time?

According Nancy, to stay the course with crime reduction, CPD is gearing up with policing changes, including a shift in the command staff and a new safety strategy for the upcoming summer months which will target high priority areas with additional patrols.

Chicago Police Department also indicated that Chicago saw an 8-percent decline in criminal complaints in 2018, compared to 2017. This reduction is part of an ongoing trend, as crime is down 10 percent citywide since 2016. Chicago saw nearly 100 fewer murders in 2018, compared to 2017

Reference

Gallup. (October 31, 2018). Is there more crime in the U.S. than there was a year ago, or less? [Graph]. In Statista. Retrieved August 13, 2019, from https://www.statista.com/statistics/205525/public-perception-of-trend-in-crime-problem-in-the-usa/

Nancy Loo (MAY 1, 2019). Chicago April crime numbers show steady decline in murders, shootings. Retrieved August 13, 2019, from https://wgntv.com/2019/05/01/chicago-april-crime-numbers-show-steady-decline-in-murders-shootings/