This dataset reflects reported incidents of crime (except for murders where data exists for each victim) that occurred in the City of Chicago from 2001 to present, minus the most recent seven days. Data is extracted from the Chicago Police Department's CLEAR (Citizen Law Enforcement Analysis and Reporting) system. In order to protect the privacy of crime victims, addresses are shown at the block level only and specific locations are not identified. Disclaimer: These crimes may be based upon preliminary information supplied to the Police Department by the reporting parties that have not been verified. The preliminary crime classifications may be changed at a later date based upon additional investigation and there is always the possibility of mechanical or human error. Therefore, the Chicago Police Department does not guarantee (either expressed or implied) the accuracy, completeness, timeliness, or correct sequencing of the information and the information should not be used for comparison purposes over time. The Chicago Police Department will not be responsible for any error or omission, or for the use of, or the results obtained from the use of this information. All data visualizations on maps should be considered approximate and attempts to derive specific addresses are strictly prohibited. The Chicago Police Department is not responsible for the content of any off-site pages that are referenced by or that reference this web page other than an official City of Chicago or Chicago Police Department web page. The user specifically acknowledges that the Chicago Police Department is not responsible for any defamatory, offensive, misleading, or illegal conduct of other users, links, or third parties and that the risk of injury from the foregoing rests entirely with the user. The dataset contains more than 65,000 records/rows of data and cannot be viewed in full in Microsoft Excel.

Goal is to create 3-5 interesting questions about that dataset and answer them. This data is downloaded from <https://data.cityofchicago.org/api/views/ijzp-q8t2/rows.csv>. I renamed the file **ChicagoCrimes.csv**.

Q 1. Output the IUCR (Illinois Uniform Crime Reporting) departments have efficiency

rate of at least 95% for major crimes in 2018. Major crimes are defined as follows: DOMESTIC VIOLENCE, CRIM SEXUAL ASSAULT, CRIMINAL DAMAGE, CRIMINAL TRESPASS, HOMICIDE, SEX OFFENSE, HUMAN TRAFFICKING, NARCOTICS, KIDNAPPING

|  |  |
| --- | --- |
| iucr | efficiency\_percent |
| 1821 | 100 |
| 1822 | 100 |
| 1850 | 100 |
| 2011 | 100 |
| 2012 | 100 |
| 2013 | 100 |
| 2015 | 100 |
| 2016 | 100 |
| 2018 | 100 |
| 2019 | 100 |
| 2020 | 100 |
| 2021 | 100 |
| 2023 | 100 |
| 2025 | 100 |
| 2026 | 100 |
| 2028 | 100 |
| 2029 | 100 |
| 2031 | 100 |
| 2032 | 100 |
| 2033 | 100 |
| 2034 | 100 |
| 2050 | 100 |
| 2091 | 100 |
| 2092 | 100 |
| 2094 | 100 |
| 2110 | 100 |
| 2160 | 100 |
| 2024 | 99.95 |
| 1811 | 99.92 |
| 2027 | 99.91 |
| 2022 | 99.8 |
| 2014 | 99.77 |
| 1812 | 99.48 |
| 2170 | 99.32 |
| 2093 | 99.27 |
| 2017 | 99.02 |
| 2090 | 95.08 |

Q 2. Output the locations that saw a drop in the number of reported crimes in 2018 as compared to the previous year (2017).

|  |
| --- |
| **location\_description** |
| "" |
| "SCHOOL |
| ABANDONED BUILDING |
| AIRCRAFT |
| AIRPORT BUILDING NON-TERMINAL - NON-SECURE AREA |
| AIRPORT EXTERIOR - NON-SECURE AREA |
| AIRPORT EXTERIOR - SECURE AREA |
| AIRPORT PARKING LOT |
| AIRPORT TERMINAL LOWER LEVEL - NON-SECURE AREA |
| AIRPORT TERMINAL MEZZANINE - NON-SECURE AREA |
| AIRPORT TERMINAL UPPER LEVEL - NON-SECURE AREA |
| AIRPORT TRANSPORTATION SYSTEM (ATS) |
| AIRPORT VENDING ESTABLISHMENT |
| AIRPORT/AIRCRAFT |
| ALLEY |
| ANIMAL HOSPITAL |
| APARTMENT |
| APPLIANCE STORE |
| ATHLETIC CLUB |
| ATM (AUTOMATIC TELLER MACHINE) |
| AUTO |
| BANK |
| BAR OR TAVERN |
| BARBERSHOP |
| BOWLING ALLEY |
| BRIDGE |
| CAR WASH |
| CEMETARY |
| CHA APARTMENT |
| CHA HALLWAY/STAIRWELL/ELEVATOR |
| CHA PARKING LOT/GROUNDS |
| CHURCH/SYNAGOGUE/PLACE OF WORSHIP |
| CLEANING STORE |
| COIN OPERATED MACHINE |
| COLLEGE/UNIVERSITY GROUNDS |
| COLLEGE/UNIVERSITY RESIDENCE HALL |
| COMMERCIAL / BUSINESS OFFICE |
| CONSTRUCTION SITE |
| CTA BUS |
| CTA BUS STOP |
| CURRENCY EXCHANGE |
| DAY CARE CENTER |
| DEPARTMENT STORE |
| DRIVEWAY |
| DRIVEWAY - RESIDENTIAL |
| DRUG STORE |
| FACTORY/MANUFACTURING BUILDING |
| FOREST PRESERVE |
| GAS STATION |
| GOVERNMENT BUILDING/PROPERTY |

Q 3. Output the top 5 crimes reported near Hospitals, Churches or Schools in 2018?

|  |  |
| --- | --- |
| **ranknnum** | **primary\_type** |
| 1 | THEFT |
| 2 | BATTERY |
| 3 | ASSAULT |
| 4 | CRIMINAL DAMAGE |
| 5 | OTHER OFFENSE |

Q 4. Output the top 10 worst neighborhood to live in between the years 2012 to 2018. A neighborhood is considered worse or unsafe where there is a high number of crimes.

|  |  |  |
| --- | --- | --- |
| **ranknum** | **block** | **total\_cases** |
| 1 | 001XX N STATE ST | 5348 |
| 2 | 0000X W TERMINAL ST | 3563 |
| 3 | 008XX N MICHIGAN AVE | 3404 |
| 4 | 0000X N STATE ST | 2611 |
| 5 | 076XX S CICERO AVE | 2556 |
| 6 | 064XX S DR MARTIN LUTHER KING JR DR | 1749 |
| 7 | 0000X S STATE ST | 1678 |
| 8 | 011XX S CANAL ST | 1672 |
| 9 | 083XX S STEWART AVE | 1631 |
| 10 | 006XX N MICHIGAN AVE | 1532 |