Rodrigo Hecht

IBM Data Science – Capstone Report

1. Introduction

1.1 Background

The Chicago Police Department's Bureau of Records has been tracking crime in Chicago for several years. In Chicago happened half of the homicides in the US in 2016, so it is interesting to study the different crimes to reach to conclusions.

1.2 Problem

Data might contribute to determining which the correct places to set police controls are.

1.3 Interest

I am interested in study this problem in order to the information that tells that in Chicago happened half of the murderer of US in 2016

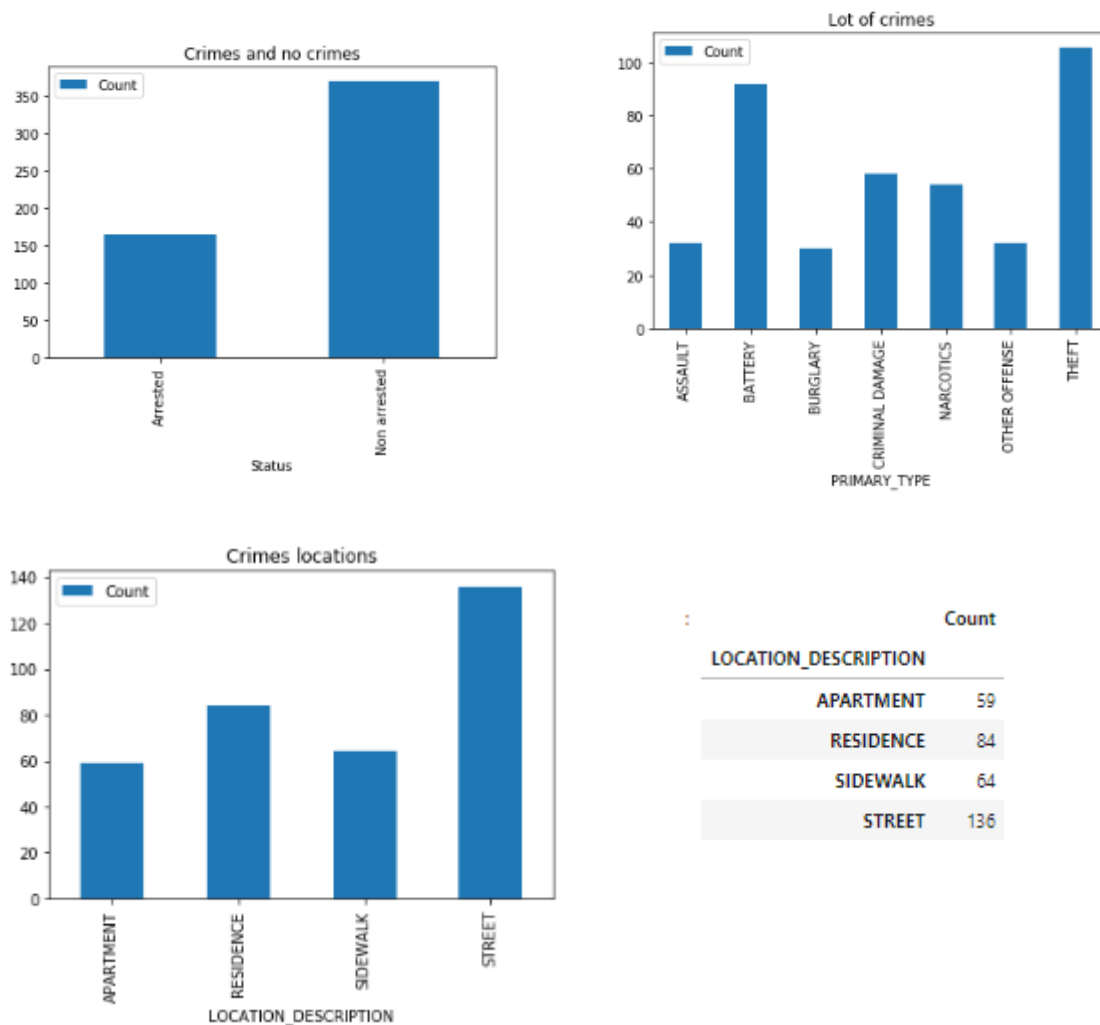## 2. Data acquisition and cleaning

2.1 Data sources

Data is provided from IBM Data Science Course in a csv format.

2.2 Data Cleaning

There were 508 samples and 8 features in the information, once cleaning the data frame.

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3. Exploratory Data Analysis

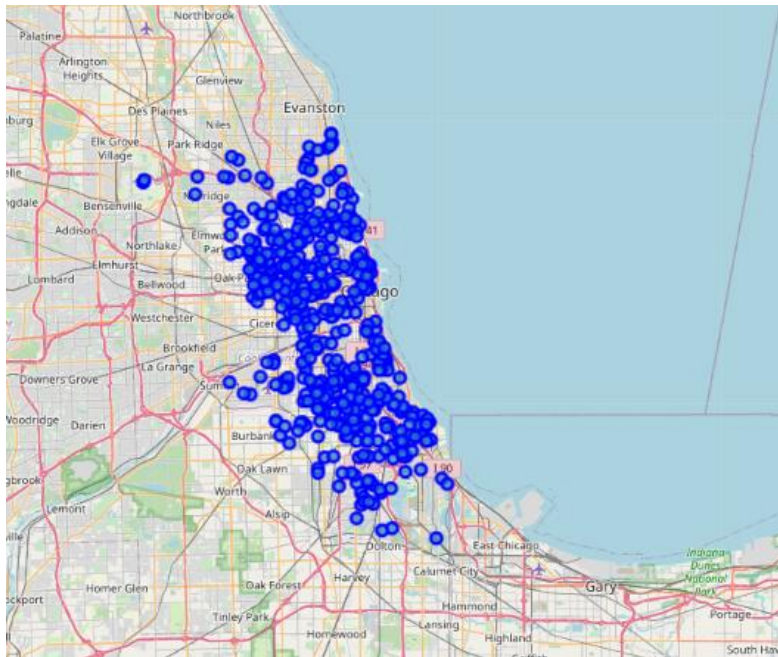| :	Count
LOCATION_DESCRIPTION	
APARTMENT	59
RESIDENCE	84
SIDEWALK	64
STREET	136

As we can see in the first chart, almost half of the crimes ended with arrestments. In addition, in the second chart we can see which crimes were the one the happened the most. In the thirst one, it showed which neighborhoods happened to be the ones that occurred most crimes.
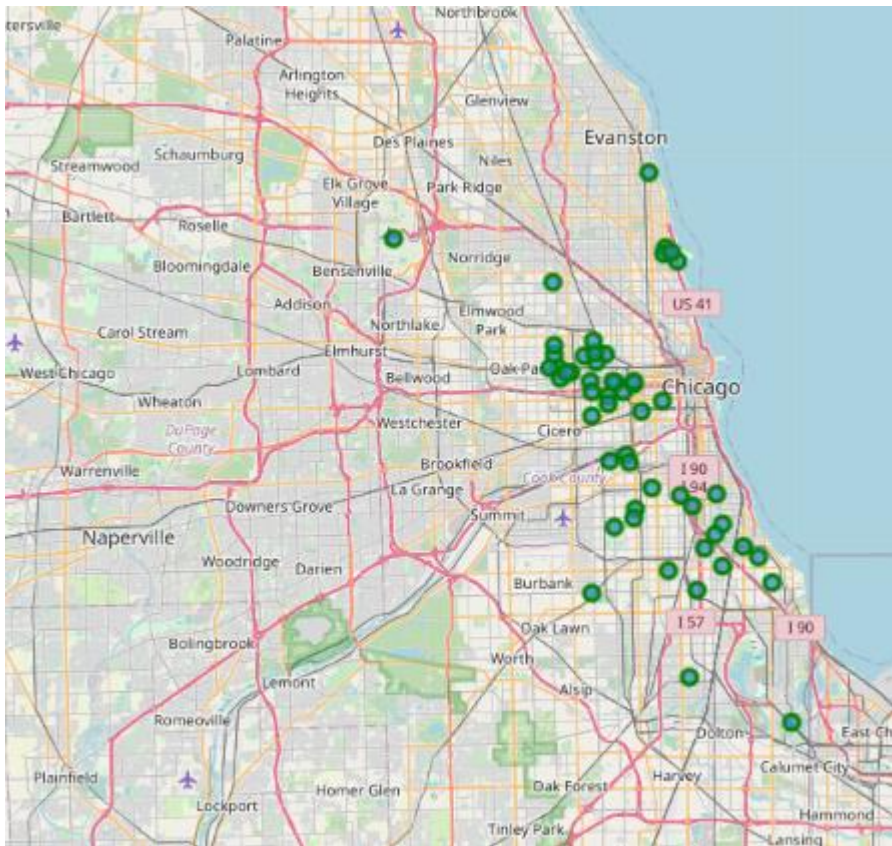
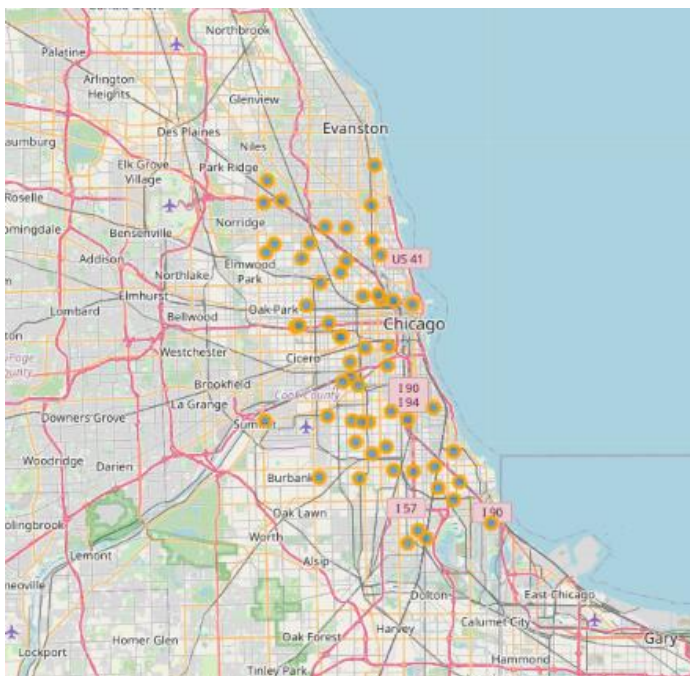## 4. Crime Maps Analysis

4.1 Crimes

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4.2 Theft

4.3 Narcotics

4.4 Criminal damage

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5. Conclusion

In order to make a recommendation I want to make a previous review. As we can see on the maps, the crimes that happened the most were thief, narcotics and criminal damage. In addition, we can see on the script where the locations that happened the most are: departments, airport, alley, athletic club and bank. Therefore, my recommendation is to establish police controls at the points that appears the most, near the places I am talking about.