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# Crime Rates vs. Population Increase

## Intro

A phenomenon I have been interested in is the drop in national violent crime rates over the last twenty or so years. And moreover, the general perception that the opposite is true and crime rates have in fact been raising. An while I doubt that a simple data comparison would change anyone’s mind, I did find sets of data that was worth looking at.

The FBI has published crime statistics that range from 1997 to 2016. And the Census Bureau publishes yearly US population reports to compare against. A questioned that can be answered by these numbers is “does violent crime rates correlate with population growth?”

## What changes will you make from the raw data using PIG?

For the FBI data I will need to trim most of the data rows to narrow it down to just crime and dates. For the census data I will need to drill down to the years needed and population totals.

## What tables and relationships will you create when you import this data into SQL?

Each data source will produce a simple table. The crime statistics will consist of an ID, Violent Crime and Date. The population will be split up into ID, Date and Population Value. The two tables will be joined on the Date value.

## Sources:

FBI:

<https://ucr.fbi.gov/crime-in-the-u.s/2016/crime-in-the-u.s.-2016/topic-pages/tables/table-1>

US Census Bureau:

<https://www.multpl.com/united-states-population/table/by-year>