21-Feb-2019

**Project Report:** Death Penalty & Executions in the US

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**Project Description:** We compiled data that shows records of executions performed between 1985 and 2015 in the United States since the Supreme Court reinstated the death penalty. This will illustrate the last 30 years of executions.

**Data Resources:**

* Sources of data include:
  + <https://www.census.gov/data/tables/time-series/demo/income-poverty/cps-pov/pov-01.html>
  + <https://deathpenaltyinfo.org/2017-sentencing>

The main focus of this project was to learn the ETL process of filtering 2 sets of data and combining them in an organized manner by visualizing it in SQL. If you look at our references, we first extracted the data based on date and the age range of the individuals based in the United States. In order to combine the tables, we needed to add tables with similar information. In this case, we filtered the age from one table to combine that of the age ranges in the other table.

We then cleaned and filtered the data based on the null vales, column names, age ranges, etc. After the filtering process, we transformed and merged the data based on the age range. Finally, we used SQLalchemy to load the table in a SQL dataframe. We defined the ORM table in Pandas and loaded the table in SQL based on the columns that we named.