

Assignment 4.2

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You need to submit 3 scatterplots, 3 bubble charts and 3 density plot charts using Tableau or PowerBI, Python and R using the data below (or your own datasets). You can also submit using D3. You can choose which library to use in Python or R, documentation is provided to help you decide and as you start to play around in the libraries, you will decide which you prefer.

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

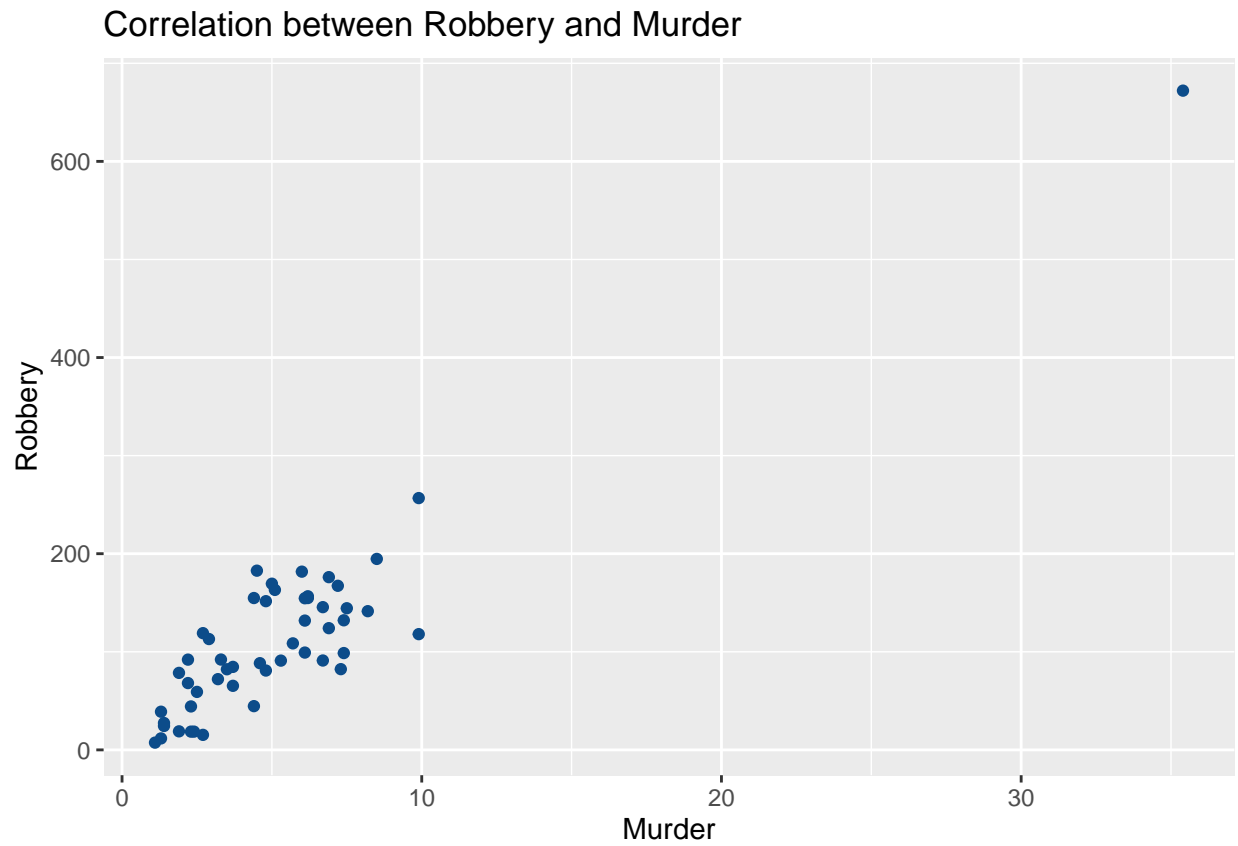
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

##      state murder forcible_rape robbery aggravated_assault burglary
## 1  Alabama      8.2           34.3   141.4              247.8   953.8
## 2   Alaska      4.8           81.1    80.9              465.1   622.5
## 3   Arizona      7.5           33.8   144.4              327.4   948.4
## 4   Arkansas      6.7           42.9    91.1              386.8  1084.6
## 5 California      6.9           26.0   176.1              317.3   693.3
## 6   Colorado      3.7           43.4    84.6              264.7   744.8
##  larceny_theft motor_vehicle_theft population total_crime state_cont
## 1          2650.0           288.3   4545049      4323.8          1
## 2          2599.1           391.0   669488      4244.5          2
## 3          2965.2           924.4   5974834      5351.1          3
## 4          2711.2           262.1   2776221      4585.4          4
## 5          1916.5           712.8  35795255      3848.9          5
## 6          2735.2           559.5   4660780      4435.9          6
##   name_caps abbr      region midwest
## 1   ALABAMA  AL Rest of USA        0
## 2   ALASKA  AK Rest of USA        0
## 3   ARIZONA  AZ Rest of USA        0
## 4   ARKANSAS AR Rest of USA        0
## 5 CALIFORNIA CA Rest of USA        0
## 6   COLORADO CO Rest of USA        0

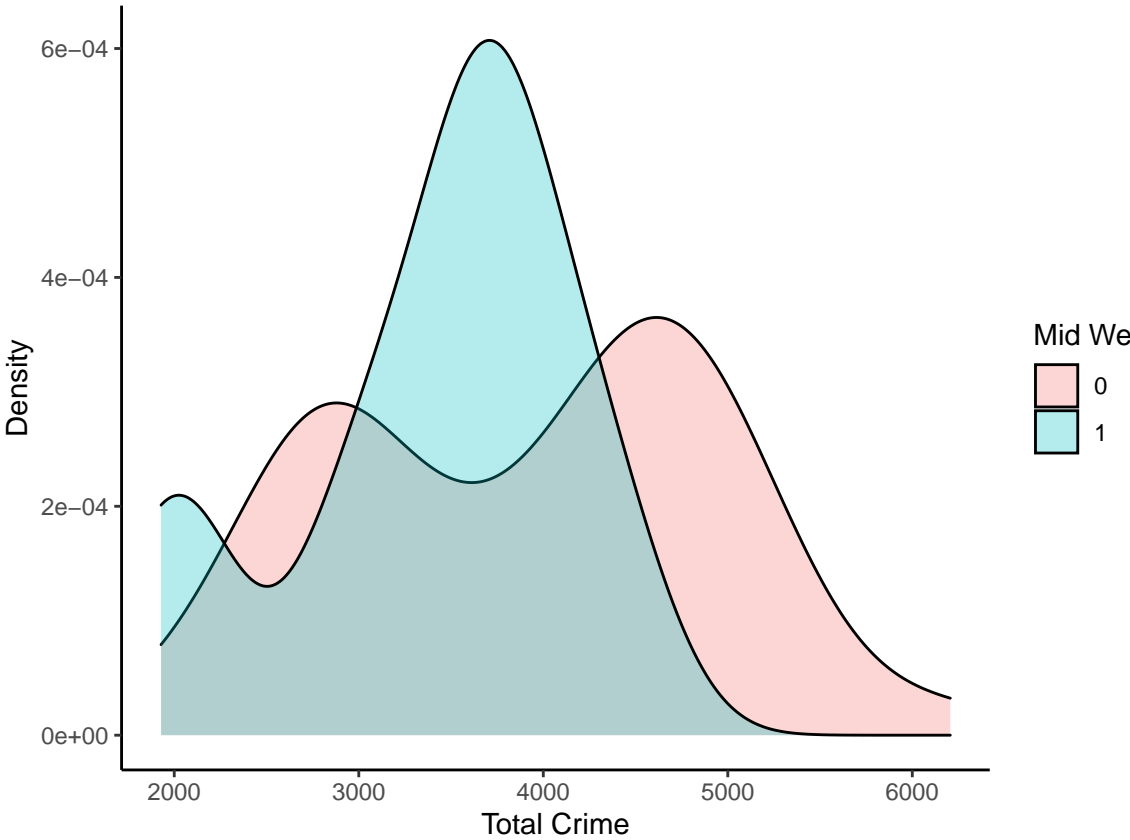
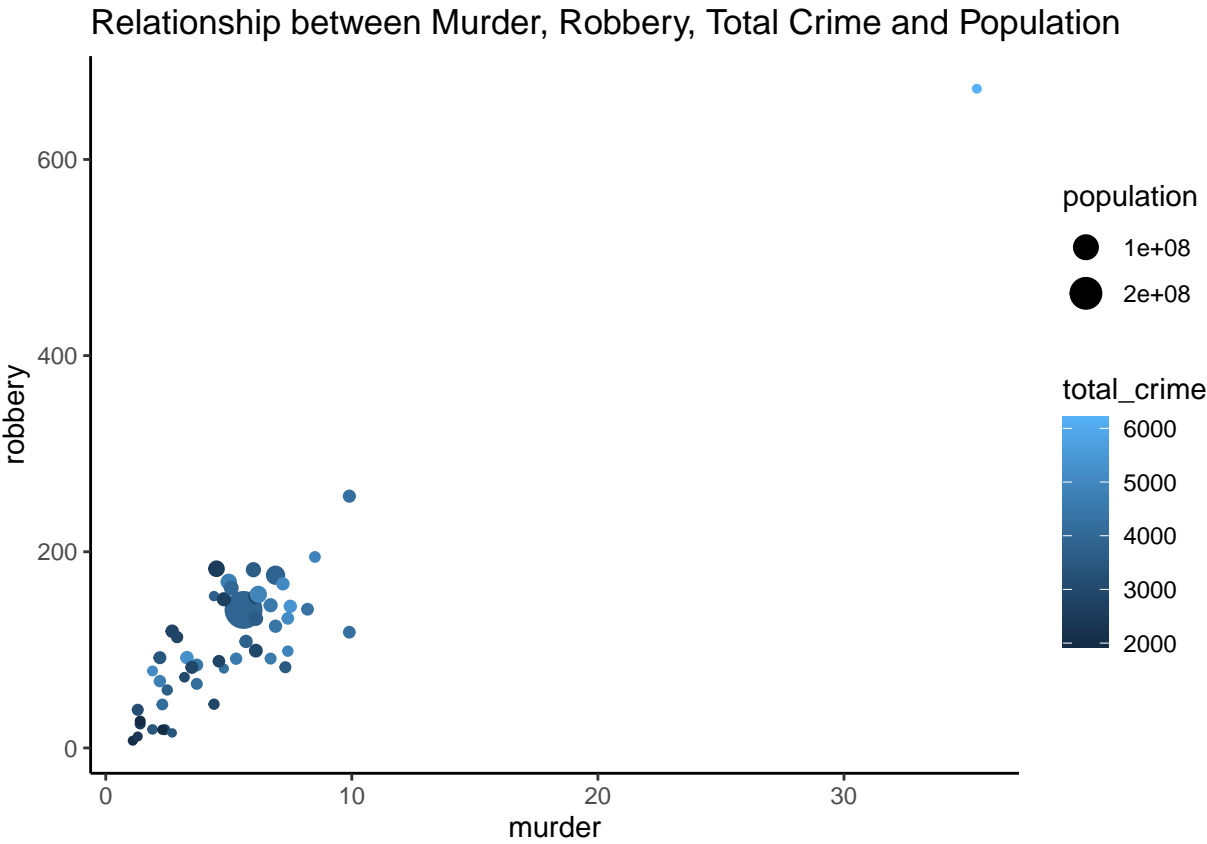
##      country year expectancy
## 1  Afghanistan 2008          42
## 2    Albania 2008          73
## 3    Algeria 2008          71
## 4     Angola 2008          46
```

5 Antigua and Barbuda 2008 74
6 Argentina 2008 76

Plot1: Scatter Plot



Plot2: Bubble Plot



Plot3: Density Plot