

1. The `police_killings.csv` data file contains the data behind the story [Where Police Have Killed Americans in 2015](#). The data was linked using entries from the Guardian's database on police killings to census data from the American Community Survey. The Guardian data was downloaded on June 2, 2015. Census data was calculated at the tract level from the 2015 5-year American Community Survey using the tables `S0601` (`demographics`), `S1901` (`tract-level income and poverty`), `S1701` (`employment and education`) and `DP03` (`county-level income`). The following table shows a brief description of each of fields:

Name	Description	Source
Name	Name of the deceased	Guardian
Age	Age of the deceased	Guardian
Gender	Gender of the deceased	Guardian
Raceethnicity	Race/Ethnicity of the deceased	Guardian
Month	Month of the killing	Guardian
Day	Day of the incident	Guardian
Year	Year of the incident	Guardian
Streetaddress	Address where incident occurred	Guardian
City	City where incident occurred	Guardian
State	State where incident occurred	Guardian
Latitude	Latitude, geocode from address	
Longitude	Longitude, geocode from address	
State Fp	State FIPS code	Census
County Fp	County FIPS code	Census
Tract Ce	Tract ID code	Census
Geo Id	Combined tract ID code	
County Id	Combined county ID code	
Namelsad	Tract description	Census
Lawenforcementagency	Agency involved in incident	Guadian
Caused	Cause of death	Guardian
Armed	Whether deceased was armed	Guardian
Pop	Tract population	Census
Share White	Share of pop that is white	Census
Share Black	Share of pop that is African-American	Census
Share Hispanic	Share of pop that is Hispanic	Census
P Income	Tract-level median personal income	Census
H Income	Tract-level median household income	Census
County Income	County-level median household income	Census
Comp Income	$H\ Income / County\ Income$	Calculated from Census
County Bucket	Household income, quintile within county	Calculated from Census
Nat Bucket	Household income, quintile nationally	Calculated from Census
Pov	Tract-level poverty rate	Census
Urate	Tract-level unemployment rate	Calculated from Census
College	Share of 25+ pop with BA or higher	Calculated from Census

Notes regarding income calculations:

- All income fields are in inflation-adjusted 2013 dollars.
- `Comp Income` is simply tract-level median household income as a share of county-level median household income.

- **County Bucket** provides where the tract's median household income falls in the distribution (by quintile) of all tracts in the county. (1 indicates a tract falls in the poorest 20% of tracts within the county). Distribution is not weighted by population.
- **Nat Bucket** is the same as **County Bucket** but for all US counties.

Using the `police_killings.csv` data file answer the following:

- (3 points) Load the `police_killings.csv` data file to tableau.
- (5 points) Open a new worksheet and create a map that shows the number of police killing by state/city. Call this worksheet **Police killing by state/city**.
- (5 points) Open a new worksheet and create a bar chart that shows the Race/Ethnicity of the deceased. Call this worksheet **Race/Ethnicity**.
- (5 points) Open a new worksheet and create a bar chart that shows the cause of death. Call this worksheet **Cause of Death**.
- (10 points) Create a dashboard with the charts from parts (b), (c) and (d), call it **Police Killings**. Also, add a **Web Page** object to your dashboard. Make sure that when you select a state/city on your map, the **Web Page** object shows the Wikipedia page of the city. Also, the data the two bar charts show has to be from the state/city that is selected.

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<sup>1</sup>Make sure you submit a `*.twb` file in Blackboard.