For this final project I used Jupyter Notebooks for python, Matplotlib to create visualizations, and pandas for data analysis. The dataset in this project is regarding California students’ perception of their safety in school which can be found at: <https://usc-geohealth-hub-uscssi.hub.arcgis.com/datasets/perceptions-of-school-safety/explore?location=34.117758%2C-117.162695%2C7.91&showTable=true>.

The dataset was cleaned and 5 questions were asked of the data:

1. Does gender play a role in 7th graders who feel very safe in school?
2. Does sexual orientation play a role in students feeling very unsafe in school?
3. What is the breakdown of safety perception of students who have a low level of connectedness to school?
4. Does the parents’ level of education affect students who feel neither safe nor unsafe?
5. Does race play a role in students feeling safe?

From my analysis it was determined that there indeed are factors that influence these students’ feeling of safety. The conclusions are male 7th graders have a greater feeling of safety than female 7th graders. Gay/lesbian students feel more unsafe than students of other sexual orientations. Students who have a low connection to the school don’t affect their feeling of safety. Students of parents who did not finish high school have a neutral feeling about their safety. And Native American students are less likely to feel safe compared to students of other races.

If I were presenting this to the California Board of Education, I would recommend some type of diversity and inclusion educational program. This program could highlight the different races of the student body and the students who are gay/lesbian. The board of education could also offer psychologist sessions to students who feel they would benefit from it.

To continue to analyze this data I would recommend a repeat survey. For example this survey can be given in the beginning and end of the school year to see how the scores change. Possibly there are students who are new to the school and don’t have any friends or know what to expect, so repeating the survey at a later time with the same subjects could yield different results.