Alec Mintz

Module 4 HW

The dataset “school\_data\_complete” contains student information, student test scores, and various information about students’ school, district, and budget. In total, the dataset contains 15 schools, 39,170 students, and a total budget of $82,932,329,558. The students had an average math score of 78.98%, and 81.87% reading score. 74.98% of the students pass math, and 85.80% of students pass reading, with an overall passing percentage of 65.17%. The highest performing school in the dataset is Cabrera High School, with an overall passing rate of 91.33%. The lowest performing school in the dataset is Johnson High School, with an overall passing rate of 53.54%.

* As shown in the data, there is not a direct relationship between a high budget, and a high overall passing percentage. In fact, the data shows that the schools with a smaller overall budget have a higher overall passing rate compared to schools with higher budgets. An example of this is shown in budget per capita of the top and bottom performing schools. Cabrera High School which is the highest scoring school, spends <$585 per student, which is tied for the lowest in the dataset. On the other hand, Johnson High School spends $645-680 per student, which is tied for the most in the dataset.
* Charter schools score significantly higher in math, reading, and overall passing percentage than district schools. The top 5 schools in overall passing rate are all charter schools, while the bottom 5 are all district schools. School size is also a key indicator of overall passing percentage. Small and medium sized schools (<1,000 and 1,000-2,000) have an overall passing rate of 89.88% and 90.62% respectively, while large schools (2,000-5,000) only have a passing rate of 58.28%