PyCitySchool Written Analysis

In this assignment tasked with analyzing data from a city’s school district with a goal of facilitating strategic decision-making regarding school budgets and priorities. Three main conclusions can be drawn from my analysis: budget and passing percentages have little correlation, school size and passing has some correlation, and that on average charter schools perform better.

Budget and % Overall Passing

I found during this exercise that the amount spent per student at a school has little to no impact on the performance of students. We can see that in the “spending\_summary” data frame where we have grouped schools in ranges of spending per student. The lowest spending range of less than $585 per student has the highest overall passing rate of 90.37%, whereas the highest spending range has the lowest overall passing rate of 53.53%.

School Size and % Overall Passing

While looking at the budget of each school I noticed that the schools with higher budgets also had a larger number of students. This encouraged me to further analyze how the number of students impacts performance. I found that schools grouped in the small category, meaning less than 1000 students, performed 30% better than schools with populations greater than 2000 students. This conclusion aligns with my hypothesis as I assumed that larger populated schools have less interaction with their teachers.

School Types

In the final section of my analysis, I compared school type to student performance. I found that charter schools outperform district schools by nearly 37%. I conclude that this is mainly driven by population size, as on average charter schools have a smaller population than district schools.