Module 4 Challenge Data Report

Matthew Adent

Part 1: Summary of the analysis

This project had many parts, but the main purpose of it was to gather data about the schools in order to find trends in the data based on categories like grade level, school type, and per student budget just to name a few. To be more specific, I did the following,

1. I loaded and combined the datasets. No cleaning necessary here, yay!
2. I calculated metrics for the school district, which includes number of schools, students, budgets, math and reading scores, and percentage of students passing.
3. I created a summary of each school's performance, each grade's performance, and each type of school's performance. Notably, I created some new columns in order to make some observations on each school: Spending ranges per student, and school size.

Part 2: Observed conclusions/comparisons from the calculations

Something interesting that I observed at the end of this report was that in this data set, charter schools had a far higher passing rate (90.4) than district schools (53.7). Another observation I made is that spending per student had a shockingly negative correlation with the passing rate of the school. I believe that this is because charter schools have a comparatively low spending per student than district schools, and because charter schools have such high passing rates, it makes it look like having a lower spending per student causes increased passing rate. This could potentially be misleading, and definitely worth

considering. Something I would do is compare the spending per student to passing rate AFTER grouping by school type, in order to get a more clear understanding of the correlation that exists between these two factors.