Module 4 – Pandas Challenge Written Report

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Analysis Summary:

Using both the school and student data, this script was able to analyze how successful a particular school may be based on their student reading and math scores.

Various calculations were performed to assess the district’s overall performance. These calculations were utilized to create dataframes to measure school variations. Dataframes were also created to compare spending ranges, school size and school type to average scores and passing rates. By performing this analysis, I was able to make conclusions based on the trends represented in the dataframes.

Conclusions:

One surprising conclusion from the analysis is that schools with a smaller spending range per student had higher overall passing rates. I find this surprising because you would think that the larger spending per student would correlate to higher passing rates.

Another conclusion is that highest passing rates occurred in medium sized schools. This is unexpected because typically smaller schools have greater success rates since smaller classes sizes allows for more individualized attention from teachers. This trend aligns with the data showcasing charter schools outperforming district schools. When comparing both school size and type, all district schools fell within the large category (> 2000 students), while middle-size schools (1000 to 2000 students) only comprised of charter schools.