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Data Visualization

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Challenge 4—PyCitySchools

Analysis Summary

The two conclusions drawn were from the two CSV files that compiled data for the schools and students in a school district. The data proves that spending more money per student doesn't guarantee that students will perform at a higher level. School size doesn't determine if more students are likely to pass math and reading. A statistical result of the data highlights that students in all grades had similar academic performance.

Conclusion 1

The top five schools in the district are charter schools. Charter schools generally outperform other school types in the district. In charter schools, over 90% of students pass math and reading with a score of 70 or better. This interesting fact is striking, considering charter schools have a smaller budget than the other school types, proving that spending more money per student in a school doesn't necessarily produce higher mean test scores. Schools with the lowest spending per student (less than \$585) had the best average maths and reading scores and overall passing rates, including maths and reading.

Conclusion 2

The bottom five performing schools are all district schools, with less than 53% of students passing math and reading with a score of 70 or higher. Despite receiving more money, students perform the worst of the school types. This evidences that spending budget alone means nothing to a school's bottom line.