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Challenge 4: School and Students Report

In this report we will present some of the most important findings of the analysis performed at Jupyter about the school district performance based on various metrics such as passing rates, test scores, and budgets. For the analysis we reviewed the data from 15 schools with a total of 39,170 students in the district.

Key Metrics for the School District

- We found an average per-student budget of $629.29 and the total school district budget was $24,649,428. The average math and reading was 78.99 and 81.88 respectively. The overall percentage of students passing both subjects was 65.17%, distributed in a 74.98% of students passing math, and a percentage of 85.81% students passing reading.
- We also noticed that schools with higher budgets per student do not necessarily have better test scores or passing rates. In fact, schools in the lowest spending range of less than $585 per student have a 94.13% passing rate in math, while schools in the highest spending range of more than $645 per student have a 73.48% passing rate in math.
- Another finding is that all five of the top-performing schools in the district are charter schools, while all five of the bottom-performing schools are district schools. This could be due to the charter school model may be more effective in promoting academic success.

Conclusion

Based on the analysis, we can draw two conclusions:

1. Budget per student is not necessarily a predictor of academic achievement. Schools with lower budgets per student can still achieve high passing rates if they have effective teaching practices and engaged students.
2. Charter schools may be more effective in promoting academic success than district schools.

We could find other values depending on what we are looking for, but I think we have a large database from which we can draw different conclusions.