

# PyCity Schools Analysis

## Summary

In the district section, we gain a general idea of the overall passing rates and the number of schools being analyzed. On the other hand, the school summary provides more detailed insights into school performance, including multiple tables such as the highest and lowest performing schools, different school passing percentages per grade, scores per school spending, scores by school size, and scores by school type. Each of these tables also compares the math scores and reading scores alongside the overall passing rate for comprehensive analysis.

## Conclusions

The analysis conducted reveals several key findings:

**1. Charter Schools vs. District Schools:** Charter schools demonstrate a significant advantage over district schools in average passing grades. The overall passing grade for charter schools is nearly 90.5%, while for district schools, almost half of the students don't achieve the minimum passing mark of 70, resulting in a 53% overall passing rate. This is evident in the top 5 performing schools, all of which are charter schools, while the bottom performing schools are all district ones.

**2. Effect of School Size:** Small and medium-sized schools perform notably better than those with over 2000 students. Schools with more than 2000 students tend to have an overall passing rate of 58.28%, whereas small and medium-sized schools with less than 2000 students maintain a passing rate of around 89-90%.

**3. Consistency Across Grades:** The performance trends are consistent across different school grades.

**4. Impact of Student Spending:** There is a clear correlation between overall passing percentage and student spending. Schools with lower expenditure per student exhibit higher passing percentages, while an increase in spending per student gradually lowers the overall passing rate. For instance, schools spending between \$645-680 per student have a 53.5% overall passing rate, whereas schools spending less than \$585 per student achieve a passing rate of 90.36%.

These conclusions highlight the disparities in performance between charter and district schools, the influence of school size, and the impact of spending on student outcomes.