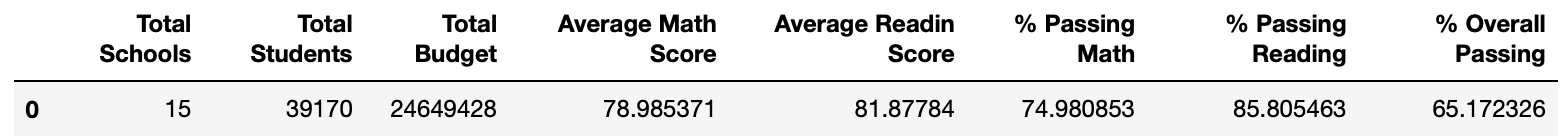
PyCity Schools Analysis Report

A purpose of this analysis is to provide a snapshot of key metrics by district and school level. The main task is to analyze the district-wide standardized test results, specifically math and reading.

District Summary



From the District Summary Data Frame we can see that across the 15 schools with 39,170 total students, average math score is 78.98% compared to the higher average reading score with 81.87%. Also, the percentage of students passing reading test (with the score 70% and higher) is higher than the math percentage. Overall percentage of the passing students is 65.17%.

The data shows that fewer students attend charter schools, compared to the district schools students number. For that reason, even though the total budget seems to be lower for the charter schools, but per student budget is approximately the same in all types of schools (district and charter). There is a difference between the math scores in charter and district. Charter schools have a higher average math score. But the reading test scores do not show such a difference between the school types. The difference in the percentage of the students passing tests (reading, math, and the overall percentage) is really big among the charter and district schools. Charter schools have about 20% to 30% higher percentage passing rate compared to the district schools.

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The above statement is clear when we look at the Data Frame of the highest performing schools and the lowest performing school. Here are the two Data Frames to demonstrate the numbers.

Highest Performing Schools

Table

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Lowest Performing SchoolsTable

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Test Score by Grades

From the data we can see that there isn’t any big difference in the test scores between the high school grades. They are pretty much the same across the 9th, 10th, 11th, 12th graders.

Scores by School Spending Table

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The Data Frame here demonstrates that the spending amount does not really affect the scores. Charter schools which have lower funding amount give greater results than some district schools, which have the highest funding amount, but show the lowest scores.

Scores by School Size

Table

Description automatically generated

Small and medium sized schools out-performed large sized ones. The % overall passing among the students is dramatically higher in schools with less than

2000 students (89% - 90% vs 58%).

The table summary snapshot below shows that the charter schools with fewer students have higher score results and test passing results that the district schools.

Scores by School Type

Table

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