PyCity School Analysis

The dataset from PyCity Schools includes math and reading scores from 15 different schools, varying in student populations.

This data was analyzed to compare the average math and reading scores and determine overall passing rates. Grade levels, spending ranges, school sizes, and types of schools broke down the analysis.

For grades 9 through 12, the average math and reading scores remain consistent across the board for each school.

Interestingly, schools with fewer than 2000 students have nearly double the overall passing scores compared to larger schools. (It seems to have fewer students, allowing better results in different ways; it may affect the quality of the classes, teaching, etc.)

Charter schools outperform other types, with the top five highest-performing schools being medium-sized and operating with smaller budgets. In contrast, district schools show the lowest performance. These schools tend to have large student populations, bigger budgets, and scores that are nearly half those of the top-performing charter schools.

Analysis after coding:

Contrary to expectations, schools with larger budgets did not achieve better test results. In fact, those with higher spending per student performed worse than schools with lower spending.

When examining school sizes, smaller and medium-sized schools significantly outperformed larger schools in math passing rates, achieving higher passing compared to larger schools.

Charter schools consistently outperformed public district schools in all metrics. However, further analysis is needed to determine whether this is due to the practices within charter schools or their tendency to serve smaller student populations.