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Module 4 Pandas Homework Assignment

PyCitySchools

Written Report

Overall, students achieve higher Reading scores than Math scores, regardless of school type, size, budget per student, or grade level. The average Reading score was 81.87%, with 85.80% of students passing Reading. In contrast, average Math score was 78.98% with 74.98% of students passing math.

Higher Budget Spent Per Student does not appear to correlate with stronger math and reading scores. In fact, the schools with the highest per student budget ($645+) drove the lowest math and reading scores. This may be because the range of per student budgets is fairly narrow, ranging from $578 to $655. More analysis is needed of schools with budgets lower and higher than this range.

Based on the data provided, the number of students attending a school may be a bigger contributing factor to a school's success with math and reading scores. In medium size schools (1000-2000 students), 90.62% of students scored overall passing grades. Small size schools (<1000 students) followed close behind with 89.88% of students passing. However, in large size schools, those with 2000-5000 students, only 58.29% scored passing grades.

School type also appears to influence passing score performance - Charter schools dramatically outperformed District schools in terms of students with overall passing grades (90.43% vs. 53.67%). This is further supported by the top 5 schools by percent of overall passing students all being Charter schools, vs. the bottom 5 schools which were all District schools.