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Northwestern Data Science and Visualization Boot Camp

Section 62

Class Nbr 41112

### School Performance Analysis

For a city's school district, the school board and mayor have a responsibility to make strategic decisions regarding future school budgets and priorities. One way to make such decisions is by analyzing district-wide standardized test results. Using Pandas DataFrames and Jupyter Notebook, this report analyzes students' math and reading scores from 15 high schools to showcase obvious trends in school performance.

Based on the analysis, larger school size and higher school spending do not represent efficiency. As shown in the "Scores by School Spending" summary table, schools that spend less than \$630 have a better performance while schools that spend more than \$630 have a poor performance. In the "Scores by School Size" summary table, large sized schools have a poor performance when compared to small and medium sized schools.

Furthermore, the analysis indicates that charter schools tend to have better performance than district schools. According to the "Scores by School Type" summary table, charter schools have a 90.43% overall passing rate while district schools have a 53.67% overall passing rate. The table also shows that charter schools have higher passing rates in math and reading than district schools do.