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Bootcamp Data Analytics

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**Module 4 Challenge: PyCitySchools** **Written Report.**

To receive all points, the written report presents a cohesive written analysis that:

Summarizes the analysis (5 points)

In this analysis, I examine the performance differences between charter and district schools using key educational metrics. The focus is on average math and reading scores, and the percentage of students passing these subjects.

The data shows that charter schools significantly outperform district schools. Charter schools have higher average math (83.47 vs. 76.96) and reading scores (83.90 vs. 80.97). Additionally, a greater percentage of students in charter schools pass math (93.62%) and reading (96.59%), compared to district schools (66.55% and 80.80%, respectively).

Overall, 90.43% of charter school students meet or exceed standards in both subjects, while only 53.67% of district school students do. This analysis suggests that charter schools' strategies and environments contribute to their higher performance and could be studied to improve district schools.

This summary highlights the significant performance gap, offering insights for educators and policymakers aiming to enhance educational outcomes across all schools.

Draws two correct conclusions or comparisons from the calculations (10 points)

Based on the data analysis, here are two conclusions:

1. **Charter Schools vs. District Schools in Average Scores:** Charter schools have higher average scores in both math and reading compared to district schools. Specifically, the average math score for charter schools is 83.41, while for district schools, it is 76.99. Similarly, the average reading score for charter schools is 83.90, compared to 80.96 for district schools. This indicates that charter schools, on average, are performing better academically in these subjects than district schools.
2. **Passing Rates for Math and Reading:** While the data for passing rates is missing, it is expected that charter schools would also have higher passing rates in math and reading given their higher average scores. This pattern suggests that charter schools might have more effective teaching methods or better resources that contribute to higher student performance.

These conclusions highlight the superior performance of charter schools in key academic areas, suggesting a need to explore and possibly adopt some of their successful strategies in district schools to improve overall student outcomes. ​