

Summary of Analysis:

The analysis was conducted on a district and school level, covering key metrics related to student performance and school characteristics. Various data frames were created to organize and present the information in a structured manner. The analysis included district-wide metrics, school-specific metrics, and breakdowns based on spending, size, and type of schools.

Observations and Conclusions:

1. Impact of School Size on Performance:

- Smaller schools (less than 1000 students) tend to have higher overall passing rates compared to larger schools. This trend may suggest that smaller schools provide a more personalized and supportive learning environment, leading to better academic outcomes.

2. Spending Per Student and Academic Performance:

- There is a positive correlation between the amount spent per student and academic performance. Schools with a higher per-student budget generally exhibit higher average scores in both math and reading. While increased spending is associated with better performance, further analysis is needed to explore how effectively the budget is utilized to enhance educational outcomes.

These trends provide valuable insights into the factors influencing student success and can guide future decision-making processes within the education system.

1. School Size Impact on Performance:

- Smaller schools tend to have higher average math and reading scores compared to larger schools.
- The percentage of students passing math, reading, and overall is generally higher in smaller schools compared to larger schools.

2. Spending Per Student and Academic Performance:

- Schools with a lower per student budget often have higher average math and reading scores as well as higher passing rates compared to schools with a higher per student budget.
- This suggests that increased funding per student doesn't necessarily translate to better academic performance.

These conclusions provide insights into the relationships between school size, spending per student, and academic performance metrics. Further analysis and exploration could be done to gain a more comprehensive understanding of the factors influencing educational outcomes.