**PyCity Schools Analysis**

The purpose of this analysis is to know school performances on math and reading scores based on the type, budget, size of the schools to help the mayor make strategic decisions.

Analysis

**Per School Summary :**

Charter Schools tend to perform better in both math and reading compared to district schools.

Top Performing Schools (Charter) :

- Cabrera High School: 91.33% overall passing rate.

- Pena High School: 90.54% overall passing rate.

Top Performing Schools (District) :

- Bailey High School: 54.64% overall passing rate (highest among district schools).

- Johnson High School: 53.54% overall passing rate.

**Spending summary :**

Schools with lower per student budget (<$585) tend to have higher overall passing rates (90.37) and better performance in both math and reading.

**Size Summary:**

Medium-sized schools (1000-2000 students) show the best performance across all metrics:

- Math Score: 83.37

- Reading Score: 83.86

- % Overall Passing: 90.62%

Large schools (2000-5000 students) show the lowest overall passing rate (58.29%).

Conclusion:

* Charter schools, medium-sized schools, and those with lower spending per student tend to have better student outcomes in terms of both math and reading scores and overall passing rates.
* District schools, larger schools, and schools with higher per-student spending tend to perform less in comparison.

Possible Reasons:

* Individual Attention: Smaller student populations might allow for more personalized attention from teachers, leading to better academic outcomes.
* Resource Allocation: Medium and small schools might manage resources more effectively, ensuring students have access to necessary support and materials.
* Community and Engagement: Smaller schools often foster a stronger sense of community and engagement, which can positively impact student motivation and performance.