**Module 4 Challenge: Pandas DataFrames**

In this assignment, I analyzed data from a city’s school district to make data-driven decisions regarding future school budgets and priorities.

**Data**

Out of the 15 city high schools, 7 are District schools and 8 are Charter schools. The District schools have an average of only 54% overall passing, whereas the Charter schools have an average of 90% overall passing. The numbers are closer for average of % passing math and average of % passing reading:

|  |  |  |
| --- | --- | --- |
| School Type | Average of % Passing Math | Average of % Passing Reading |
| Charter | 94 | 97 |
| District | 67 | 81 |

The average math and reading scores between the two types of schools are even closer:

|  |  |  |
| --- | --- | --- |
| School Type | Average Math Score | Average Reading Score |
| Charter | 83 | 84 |
| District | 77 | 81 |

The sum per student budget for Charter schools is $4,796 and for District schools is $4,505.

All of the District schools are Large in student population; only one Charter school has over 2000 students; the rest are medium (1000-2000) and small (less than 1000).

**Summary**

The data indicates that the per student budget does not have an effect on student performance. It does appear that the size of school does affect student performance: the larger schools have poor performance compared to that of smaller schools.