

Analysis Summary:

Two csv files have been merged in order to conduct the PyCitySchools Analysis. One file contained school specific data and the other was student specific data. Both had school name in common and were left joined from that field.

First in the analysis was district summary, this portion of the analysis looked at the data as a whole. The data highlights:

- Students combined as a whole between all 15 schools are below passing at 65.1%.
- Reading scores higher as a whole with 81.8% average scores and 85.8% passing.
- Students as a majority are passing math but are 3% behind in average score, compared to reading, and 11% behind in students passing reading.

Next, School Summary is analyzed. This summary breaks down the data per school.

The data highlights:

- Charter schools have a higher % of overall passing students. They have a range between 89-91% passing whereas districts have a range of 52-54% passing.
- District schools have more students and higher school budgets than Charter schools.

Next, Math Scores by Grade are analyzed. This portion of the analysis looks at math scores for each school and each grade. The data highlights:

- Each school is fairly consistent between grades, especially schools like Wilson High, Thomas High and Hernandez High.
- Holden High 11th graders have the highest passing math scores not only in their school but in all the schools and grades.

Next, Reading Scores by Grade are analyzed. This portion of the analysis looks at reading scores for each school and each grade. The data highlights:

- Bailey High and Rodriguez High have consistent school between all grades.
- Holden High 12th graders have the highest passing reading scores not only in their school but in all the schools and grades.

Next, Scores by School Spending are analyzed. This portion of the analysis looks at budget break downs per student and per school to see if scores have a correlation with budget. The data highlights:

- Schools with the lowest budget had the highest performers across the board.
- At the \$631 budget per student marks the threshold of below passing overall and a decline in average score and individuals scores per math and reading.
- Students with the highest budgets score the worst and are below passing.

Next, Scores by School Size are analyzed. This portion of the analysis looks at school size break downs to see if scores have a correlation with student scores. The data highlights:

- Small and medium schools that have 0-2,000 students score higher all around than large schools with 2,000-5,000 students.
- Large schools struggle the most in math and are below passing in that subject.

Next, Scores by School Type are analyzed. This portion of the analysis looks Charter schools vs district schools scores. The data highlights:

- Charter Schools score higher in every score category than district.

Conclusion:

Charter schools have outstanding overall scores, average scores, and individual subject scores. Although the per student budget appears much lower than a district school, the charter school sizes are much lower than the districts. This plays a vital role in the students success as schools with less students score higher than school with more students.

The Charter school Holden High is the highest performing school with the lowest amount of students and lowest budget.