# School\_District\_Analysis

Data analysis of school district, coding in Python

#Overview of Analysis

Utilizing data provided by the school district, an analysis was performed in an Anaconda environment to track the performance of schools based on total budget, per capita budget, reading scores, and math scores. The data was inspected, and the total number of students were counted.

The data was also cleaned for the purpose of performing calculations to find the data requested. In this case, invalid prefixes and suffixes were removed from student names in the data.

The data was then filtered to find math and reading scores to calculate average math and reading scores. This was calculated as the sum of all scores divided by the number of scores in math and reading, respectively.

Passing grades were determined by finding all grades equal to or greater than 70. The percentage passing was calculated as the number of passing grades divided by the total number of students multiplied by 100. Once both reading and math scores were analyzed, the total overall passing percentage was generated based on the number of students that passed both tests divided by the total number of students multiplied by 100.

Once the grades had been filtered and analyzed, the district budget was addressed. Using the school counts, each school’s per capita budget was calculated by dividing the total budget by the number of students.

From all of these results, a district wide summary was generated that shows the top five and bottom five performing schools based on the overall percentage of passing students and the school’s per capita budget.

#Results

#Summary