Pandas Challenge Summary Report

In our analysis of the given data, we calculated for this school district there are 15 schools, a total of 39,170 students, a budget of $24,649,428, and average math and average reading scores of 78.99 and 81.88 respectively. The percentages of students passing math and reading (a score of 70 or higher) were 74.98% and 85.81%, with the percentage of students passing both subjects was 65.17%. We further analyzed metrics for each of the schools, calculating budget, average scores, percentages of students passing and more. We were able to determine the top performing score in the district, which had the highest percentage of overall passing students, was Cabrera High School and the lowest performing school was Rodriguez High School.

From the summary DataFrames we can come to a few conclusions regarding the school district we are analyzing. One conclusion that can be easily drawn from the school type summary is that charter schools are seen to perform better, with higher scores in both subjects and larger percentages of passing students than that of district school students. This is also supported by the fact the top five performing schools in the district are all charter schools and the five worst performing schools are district schools. Another conclusion that is noticeable is more funding does not equate to better test scores, in fact the opposite seems to be true of this district. From the spending summary DataFrame we can notice schools with less that $585 budgeted per child score better in reading and math on average than those schools with $645-680 per student.