**Report for analysis of PyCitySchool data:**

School\_complete.csv and student\_complete.csv were analyzed for Panda\_challenge.

I performed two different analyses for the assignment.

**District Summary:**

There were 15 type of schools including district and charter schools were listed in the data. 39,170 students study in this district. Total budget of the district for the school is $24,649,428.

Data included math score and reading score of the students. Average math score was 78.98 and reading score was 81.88. 74.98 percent of the students passed math and 85.80% of the students passed reading that creates overall passing percentage of 85.80.

**School Summary**

Within a district Cabrera High School performed greatest success with overall passing percentage of 91.33 (94.13% in math and 97.03 % in reading). After that Thomas High School and Griffin High School were listed on top of the highest performing school. Rodriguez High School, Figueroa High School and Huang High School needed to improve their performance in math and reading.

It is interesting that overall passing percentage was highest in the schools with lowest spending range (less than $585). However, highest spending ranges per student ($645-680) showed lowest passing overall percentage (53.52%).

When in analysis of scores in correlation with school size presented that largest school with 2000-5000 students had lowest overall passing percentage (58.28 %), and there were almost no differences in between medium (1000-2000 students) as shown as 90.62 % versus 89.88%, respectively.

The type of schools as district versus charter schools performed significant differences in terms of overall passing percentage as 53.67 % versus 90.45 %, respectively. Moreover, students in charter schools passed math and reading classes higher than district schools.

**Conclusions:**

From the analysis:

1. The overall passing percentage of the students were 85.80 which means 15 % of the students could not pass exams.

2. In comaprison with charter schools, district school need to improve their performance in both math and reading.

3. Students in the large school should pay more attention on exam scores by possibly adding more teachers and assistant teachers and increasing activities to bring more interest of the students in those classes.

4. Within range of the 4 groups of the school budget per students showed negative association of performance with budget per students indicating that budget per students did not influence school performance.