**PySchoolCity Report**

**Md Yousuf Reja**

**Module Challenge 4**

Based on the data and analysis, there two observed trends can help school stakeholders what are factors that contributing region’s school performance.

1. It is observed based on the data analysis that the Charter schools tend to have higher overall passing percentages compared to district schools. This trend is consistent across various metrics such as average math and reading scores, as well as the percentage of the overall passing. Also, same pattern exists for the percentage of students passing math and reading individually.
2. Based on the number of students, it shows that small and medium-sized schools tend to have higher overall passing percentages compared to large schools. It can be said that students in smaller groups may benefit from more personalized attention and a closer-knit relationship leading to higher academic performance. Large schools may have limitations and challenges in providing closer-knit support to a larger student group, eventually impacting the overall performance.

**Conclusions:**

1. According to school summary, it is observed that no significant correlation between school budget and academic performance. In other words, those schools have higher budget do not achieve better results nor in math or reading. This suggests that factors other than the budget might play an important role succeeding a better performance.
2. In most of the schools, students tend to perform slightly better in reading compared to math across all schools. The average reading scores are consistently higher than the average math scores across different grade levels such 9th, 10th, 11th & 12th and schools. In other words, it can be concluded that school authorities need to pay attention for more improvements in math instruction to bridge the gap between math and reading performance.