**Pandas Challenge**

**Summarize the analysis:**

In the analysis, I merged two different data sets to identify insights on school performance. I looked at 15 schools and the math and English grades of 39,170 students. I found that there are two types of schools: district and chartered. Generally, district school students performed worse and had larger student populations than chartered students. When looking at the top 5 schools based on the percentage of overall passing students, we see that the top 5 were all chartered schools, whereas else the bottom 5 were all district schools. In addition, looking at math and English grades separately, we see that students generally found English to be an easier subject compared to math.

**Draw two correct conclusions or comparisons from the calculations:**

1. There is a correlation between student grades and the size of the school. When the school is bigger, students perform worse than smaller school sizes. Small schools had an overall passing percentage of 89.88, and big schools had an overall passing percentage of 58.28. This might be because teachers don’t have enough time to help each student in bigger schools, whereas, in smaller schools, teachers have more capacity to help out the individuals not doing well.
2. The lower the spending ranges per student, the higher the overall passing percentage. When spending is lower than <585 dollars, the overall passing percentage is at 90%, but when spending is at 645 – 680, the overall passing percentage drops to 54%

This could be because when there is more spending, there are more recreational activities, so students don’t focus on their grades anymore.