**HW4: Pandas**  Diana Kennen

Analysis of the PyCitySchools Data:

There seems to be several weird outcomes from the analysis of this data set. It shows a tremendous difference in the overall pass rate between the charter schools (90.43%) and district schools (53.67%). As far as the literature indicates, there is no statistically significant difference in the performance of charter and district schools (NCSL, 2021).

Pass rates also decrease as per pupil expenditure (PPE) increases. This data shows that the overall passing rate for schools in the lowest PPE group (90.37%) is much higher than that for students attending schools with the highest PPE values (53.53%). The PPE values used in this data set are not very realistic, however, as the average per pupil expenditure in the US is over $12,000 and the data from this set was between $550 and $700.

Another interesting outcome relates to the math and reading test scores as broken down by grade level. They do not indicate an increase in performance as the students make progress through the grade levels. Bailey HS moves from 77.08 in the 9th grade to 76.49 in the 12th grade. Some additional context would be helpful. Are they taking the same test each year or are they taking a different test over new standards?