**Module 4 Pandas Analysis**

A few key analyses come from cleaning the school districts data, including interesting insights into the types of schools , the capita per budget and what effect that seems to have on the average scores of students. It seems that on average school types that were “District Schools” seem to have both a larger budget and spending per student, however they also consisted of most of the lowest ranking schools in terms of overall combined passing rates. I believe this comes from the larger student populations of “District Schools” diluting the averages and bringing down the overall scores of this school type. I believe the data from the scores by school size backs this up with the “Overall Passing” rate of Large schools (2000-5000) at only 58% which is 31% lower then the next closest group which was Small schools (<1000). Another key insight I found interesting was on average the more you spent per student the worse the students “Overall Passing Percentage” tends to be. This is proven when looking at the graph breaking down spending into ranges, the data show an inverse correlation between “Spending Per Student” and “Overall Passing Percentages”. Meaning that just because a school is spending more on a student on average doesn’t mean that the money is helping to provide a better education for the student. I think in the future the Schools should look at lowering the total population of the schools and make sure that the funding is being funneled into the proper channels to allow for better overall education.