You will find a folder named PyCitySchools with the two CSV files, Schools Complete and Students Complete, that have been read, written, and then merged into a Python DataFrame using Panda’s library in Jupiter notebook. With the assistance of a tutor, Kaggle community and Stack Overflow website, the following are my observations:

The PyCity Charter Schools, which all had an overall smaller total school budget, per student budget and less spending per student budget than the district schools outperformed by far the district schools in all accounts.

Both charter and district schools performed better in grades 9-12reading than math. The reading scores mean was over 80% for both types of schools. However, the charter schools’ mean was higher at 83.8% compared to district schools 80.9%.

There is a difference between charter and district schools in grades 9-12th math score mean but not a significant variance within the same school type math score mean by grades. The district’s math score mean was 76.9%, whereas the charter schools’ math score mean was 83.4%. (Refer to school type summary – output (42) for all percentages).

There is a correlation between school size and overall passing scores, as portrayed in the scores by school size summary display (output 40). The smaller and medium-sized schools had the higher overall passing score.