**PyCity Schools Written Analysis**

Two sets of data were provided in order to analyse the selected schools: one contains each school budget and size, and the other was categorized by student, containing their names, grade, reading and math scores.

The two sets were merged, with the aim of better visualizing the information. To have a summary of the district key metrics, the total budget and total students were calculated. In addition, the average reading and math scores were calculated.

To have a more detailed look, a summary of each school was calculated. It was then possible to obtain the results for the budget per student, as well as the average scores for each school.

The best schools by overall performance were calculated and are displayed in the Image 1.

A table with numbers and a few black text

Description automatically generated

Image 1. Top Performance Schools

As well as the bottom performing schools, displayed in the Image 2.

A table with numbers and a few words

Description automatically generated

Image 2. Bottom Performance Schools

After analysing this both images, it is possible to conclude that the budget available for each school is not a factor to determine the performance of its students. We can see a possible correlation between the amount of students of each school and their performance, since the top performance schools appear to have a smaller amount of students when compared to the bottom.

After analysing the different types of data frames calculated, another conclusion verified was between the school type and the overall scores. Charter schools had a significant higher performance than the District, outweighed by a difference of more than 36%.