**Written Report (15 points)**

To receive all points, the written report presents a cohesive written analysis that:

* Summarizes the analysis (5 points)
* Draws two correct conclusions or comparisons from the calculations (10 points)

**Background:**

In this analysis, district-wide standardized test results were studied to help the school board and mayor make strategic decisions regarding future school budgets and priorities. With school information and the student’s math and reading scores, trends in school performance were able to be showcased by aggregating the data using Python Pandas in Jupyter Notebook.

**District Summary:**

* For 39170 students within 15 schools, the average reading score, 81.88%, was higher than the average math score, 78.99%. 33,611 students passed reading (85.81%), whereas only 29369 students pass math (74.98%). Overall, there was a passing rate of 65.17% for both reading and math.

**School Summary:**



* Grades seem to get better as student count decreases and total budget increases
* Around 1500 students and $1M total budget seems to be a sweet spot
* Charter schools have better scores than district school
* Although the total budget and budget per student is low, the less students at the school show to have better scores and passing rates
* Higher the budget and more students, the lower the scores and passing rates

**Top and Bottom Performing Schools (By % Overall Passing):**

* All the top performing schools are charter schools and all the bottom performing schools are district schools

**Math Score by Grade:**



* There doesn’t seem to be any correlation or dependency on the student’s grade and the scores and more so correlation with the actual school

**Scores by:**



* The higher the spending per student doesn’t necessarily mean the grades get better, it’s actually the opposite
* Typically, the lower the student count, the better the grades
* Charter schools have better grades than district schools