**CITY’S SCHOOL DISTRICT DATA REPORT**

I have been tasked with helping the district’s school board and mayor make strategic decisions regarding future school budgets and priorities. I began the evaluation by analyzing the district-wide standardized test results. I took the data and aggregated it to showcase obvious trends in school performance.

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DISTRICT SUMMARY

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Using the standardized test data provided, I was able to categorize the data into the following groupings:

* Total number of unique schools
* Total students
* Total budget
* Average math score
* Average reading score
* % passing math (the percentage of students who passed math)
* % passing reading (the percentage of students who passed reading)
* % overall passing (the percentage of students who passed math AND reading)

I entered this data into a data frame labeled “District Summary”.

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SCHOOL SUMMARY

Following this task, I created a data frame labeled “School Summary” including the following groupings:

* School name
* School type
* Total students
* Total school budget
* Per student budget
* Average math score
* Average reading score
* % passing math (the percentage of students who passed math)
* % passing reading (the percentage of students who passed reading)
* % overall passing (the percentage of students who passed math AND reading)

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HIGHEST PERFORMING SCHOOL (BY % OVERALL PASSING)

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Using these data frames, I was able to conclude the highest-performing school, Cabrera High School, based on overall passing percentage. The schools were then sorted by % Overall Passing in descending order and displayed in a data frame.

BOTTOM PERFORMING SCHOOL (BY % OVERALL PASSING)

With the same logic, I was able to conclude the highest-performing school, Rodriguez High School, based on overall passing percentage. The schools were then sorted by % Overall Passing in ascending order and displayed in a data frame.

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READING SCORES & MATH SCORES BY GRADE

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Next, I created a data frame that lists the average reading score for students of each grade level (9th, 10th, 11th, 12th) at each school. I did the same for math scores and displayed both sets of values in separate data frames.

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SCORES BY SCHOOL SPRENDING, SCHOOL SIZE, AND SCHOOL TYPE(DISTRICT OR CHARTER)

Finally, I created three separate tables that break down school performance based on average spending ranges (per student), school size (small, medium, or large), and school type (district or charter). The following information is displayed within these data frames.

* Average math score
* Average reading score
* % passing math (the percentage of students who passed math)
* % passing reading (the percentage of students who passed reading)
* % overall passing (the percentage of students who passed math AND reading)

**Analysis**

* 1. The more money spent per students has a negative correlation on the test scores of a school, based on the spending summary data frame.
  2. A large school (2000 to 5000 students) has 46.6 % lower overall average test scores than small l(>1000) and medium (1000-2000) size schools.