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Professor Booth

Data Analysis

May 16th, 2024

City Schools Report

The data gathered from both datasheets consisted of individual student information (reading score, math score, grade level, etc.) and individual school information (number of students, budget, etc.) in the district. With this information, I merged the data from both sheets and made the information readily accessible. I made new data frames that calculate information such as "average math score, % passing reading, per student budget" to better understand the schools and students within this district.

Based on my data analysis, I now understand that students are more likely to succeed in reading than in math. Both the "Average Reading Score" and the "% Passing Reading" are higher than the "Average Math Score" and the "% Passing Math."

	Total Schools	Total Students	Total Budget	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Passing Overall
0	15	39,170	$24,649,428.00	78.985371	81.87784	74.980853	85.805463	65.172326

It is also abundantly clear that charter schools are more successful in educating their students than district schools, as the overall percentage of passing students in charter schools is about 40% higher than in district schools.

```
school_name
Bailey High School       54.642283
Cabrera High School      91.334769
Figueroa High School     53.204476
Ford High School         54.289887
Griffin High School      90.599455
Hernandez High School    53.527508
Holden High School       89.227166
Huang High School        53.513884
Johnson High School      53.539172
Pena High School         90.540541
Rodriguez High School    52.988247
Shelton High School      89.892107
Thomas High School       90.948012
Wilson High School       90.582567
Wright High School       90.333333
dtype: float64
```