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Module 4 Pandas Challenge Analysis Writeup

In this challenge, I analyzed a set of school data. I created DataFrames to find out school size, school budget, school type, school passing rates for math and reading testing, and rates of overall passing and failing. After analyzing the data, one of the conclusions I can accurately draw, is that charter schools have a significantly higher passing rate than public schools.

	School Type	Total Students	Total School Budget	Per Student Budget	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
school_name									
Cabrera High School	Charter	1858	\$1,081,356.00	582.0	83.061895	83.975780	94.133477	97.039828	91.334769
Thomas High School	Charter	1635	\$1,043,130.00	638.0	83.418349	83.848930	93.272171	97.308869	90.948012
Griffin High School	Charter	1468	\$917,500.00	625.0	83.351499	83.816757	93.392371	97.138965	90.599455
Wilson High School	Charter	2283	\$1,319,574.00	578.0	83.274201	83.989488	93.867718	96.539641	90.582567
Pena High School	Charter	962	\$585,858.00	609.0	83.839917	84.044699	94.594595	95.945946	90.540541

Here is a screenshot reflecting the top 5 schools by overall passing percentage. All of them are charter schools, whereas the bottom 5 schools are all district schools, as shown here:

school_name									
Rodriguez High School	District	3999	\$2,547,363.00	637.0	76.842711	80.744686	66.366592	80.220055	52.988247
Figueroa High School	District	2949	\$1,884,411.00	639.0	76.711767	81.158020	65.988471	80.739234	53.204476
iang High School	District	2917	\$1,910,635.00	655.0	76.629414	81.182722	65.683922	81.316421	53.513884
Hernandez High School	District	4635	\$3,022,020.00	652.0	77.289752	80.934412	66.752967	80.862999	53.527508
Johnson High School	District	4761	\$3,094,650.00	650.0	77.072464	80.966394	66.057551	81.222432	53.539172

Another worthwhile observation that can be made from the datasets, is that a smaller student body allows for a higher chance of success from each individual student, as the schools in the datasets that had smaller body sizes, often had higher overall passing rates.