ds\_2024\_module\_4\_pandas

Homework module Pandas

written analysis:

# **District Summary:**

The district has District schools and Charter schools, based on the data analysis, find the differences.

District Schools: District has passing math is about 74% and reading is 85% but overall passing is only 65%. District wise schools are not performing well, need more improvement. The district has about the same number of district schools and charter schools, but charter schools perform well with overall passing percent rate.

Total School	ols Tot	al Students	Total	Budget	Average Math Score	Average Reading Scor	e % Passing Math %	Passing Reading % Ov	erall P
0	15	39,170	\$24,649	,428.00	78.985371	81.8778	4 74.980853	85.805463	65.1
	Ave	rage Math	Score	Avera	ge Reading Score	% Passing Math	% Passing Readin	g % Overall Passir	ıg
School Type	)								
Charter	r	83.4	173852		83.896421	93.620830	96.58648	90.43224	14

## **School Summary:**

Highest performing schools by overall passing:

Charter Schools are performing well with math, reading and overall passing percentage rate. Charter Schools have less student count than district schools, total school budget is less than district schools and per student budget is also less than district schools and performance is better than District schools.

	School Type	Total Students	Total School Budget	Per Student Budget	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
Cabrera High School	Charter	1858	\$1,081,356.00	\$582.00	83.061895	83.975780	94.133477	97.039828	91.334769
Thomas High School	Charter	1635	\$1,043,130.00	\$638.00	83.418349	83.848930	93.272171	97.308869	90.948012
Griffin High School	Charter	1468	\$917,500.00	\$625.00	83.351499	83.816757	93.392371	97.138965	90.599455
Wilson High School	Charter	2283	\$1,319,574.00	\$578.00	83.274201	83.989488	93.867718	96.539641	90.582567
Pena High School	Charter	962	\$585,858.00	\$609.00	83.839917	84.044699	94.594595	95.945946	90.540541

Lowest performing schools by overall passing: District Schools:

District Schools are not performing well with math, reading and overall passing percentage rate. District Schools have more student count than Charter Schools, total school budget is more than Charter Schools and per student budget is also more than Charter Schools but the performance is not as good as Charter Schools.

	School Type	Total Students	Total School Budget	Per Student Budget	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
Rodriguez High School	District	3999	\$2,547,363.00	\$637.00	76.842711	80.744686	66.366592	80.220055	52.988247
Figueroa High School	District	2949	\$1,884,411.00	\$639.00	76.711767	81.158020	65.988471	80.739234	53.204476
Huang High School	District	2917	\$1,910,635.00	\$655.00	76.629414	81.182722	65.683922	81.316421	53.513884
Hernandez High School	District	4635	\$3,022,020.00	\$652.00	77.289752	80.934412	66.752967	80.862999	53.527508
Johnson High School	District	4761	\$3,094,650.00	\$650.00	77.072464	80.966394	66.057551	81.222432	53.539172

District Schools reading performance is almost same as Charter Schools by Grade, but the math performance is not as good as Charter Schools.

### Math scores by schools:

	9th	10th	11th	12th
Bailey High School	77.083676	76.996772	77.515588	76.492218
Cabrera High School	83.094697	83.154506	82.765560	83.277487
Figueroa High School	76.403037	76.539974	76.884344	77.151369
Ford High School	77.361345	77.672316	76.918058	76.179963
Griffin High School	82.044010	84.229064	83.842105	83.356164
Hernandez High School	77.438495	77.337408	77.136029	77.186567
Holden High School	83.787402	83.429825	85.000000	82.855422
Huang High School	77.027251	75.908735	76.446602	77.225641
Johnson High School	77.187857	76.691117	77.491653	76.863248
Pena High School	83.625455	83.372000	84.328125	84.121547
Dedicione High Cabani	70.00000	70.040500	70 205020	77 000740

### Reading scores by schools:

	9th	10th	11th	12th
Bailey High School	81.303155	80.907183	80.945643	80.912451
Cabrera High School	83.676136	84.253219	83.788382	84.287958
Figueroa High School	81.198598	81.408912	80.640339	81.384863
Ford High School	80.632653	81.262712	80.403642	80.662338
Griffin High School	83.369193	83.706897	84.288089	84.013699
Hernandez High School	80.866860	80.660147	81.396140	80.857143
Holden High School	83.677165	83.324561	83.815534	84.698795
<b>Huang High School</b>	81.290284	81.512386	81.417476	80.305983
Johnson High School	81.260714	80.773431	80.616027	81.227564
Pena High School	83.807273	83.612000	84.335938	84.591160

#### Scores by School Type:

By analyzing this comparison between District schools and Charter Schools, Charter schools has good average in math, reading and overall passing percent rate, District schools are not performing well.

 School Type
 Average Math Score
 Average Reading Score
 % Passing Math
 % Passing Reading
 % Overall Passing

 Charter
 83.473852
 83.896421
 93.620830
 96.586489
 90.432244

 District
 76.956733
 80.966636
 66.548453
 80.799062
 53.672208

Conclusion: Charter schools are performing well with less budget. Charter schools are having less students so teachers can have more one on one with students to improve overall passing rate. District should have more charter schools than district schools to improve the district Overall passing rate, educate the community about the importance and provide information about the charter schools to have happy and educated community for the future.