**HW 4 - Pandas Challenge**

None of the schools with higher budget are the ones with top performance overall passing rates. In fact, 4 of those with higher budget, are in the bottom performer schools.

Holden & Wright are both top performers in math and reading average scores, although they are not in top 5 overall percentage passing rate, meanwhile Pena High School is a top performer in those 3 indicators.

The 5 indicators: Average Math Score, Average Reading Score, %Passing Math, %Passing Reading and %Overall Passing Rate are greater in the bottom 2 ranges of expenditure per student (<$585 and $585-$615).

Also, analyzing by school size, those with the smaller number of students (<1,000) have the best Average Math and Reading Scores; although they are only 2 schools: Pena (one of the top 5 performers) and Holden.

Those schools, that are categorized medium size (1,000-2,000) have the best percentages in each assignment, as well as the overall (5 schools, with 3 of them as top performers).

While schools with the most students (>2,000) have the lowest numbers in all the indicators (8 schools, with only one as top performer, and 5 of them have the highest budget per student assign).

Dsitric Summary

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Total Schools** | **Total Students** | **Total Budget** | **Average Math Score** | **Average Reading Score** | **%Passing Math** | **%Passing Reading** | **%Overall Passing Rate** |
| 15 | 39,170 | $24,649,428.00 | 78.985371 | 81.877840 | 74.980853 | 85.805463 | 80.431606 |

Schol Summary

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **School Type** | **Total Students** | | **Total School Budget** | **Per Student Budget** | **Average Math Score** | **Average Reading Score** | | **%Passing Math** | | **%Passing Reading** | **%Overall Passing Rate** |
| **school\_name** |  |  |  | |  |  | |  |  |  | |  |
| Bailey High School | [District] | 4976 | [3124928] | | [628.0] | 77.048432 | | 81.033963 | 66.680064 | 81.933280 | | 74.306672 |
| Cabrera High School | [Charter] | 1858 | [1081356] | | [582.0] | 83.061895 | | 83.975780 | 94.133477 | 97.039828 | | 95.586652 |
| Figueroa High School | [District] | 2949 | [1884411] | | [639.0] | 76.711767 | | 81.158020 | 65.988471 | 80.739234 | | 73.363852 |
| Ford High School | [District] | 2739 | [1763916] | | [644.0] | 77.102592 | | 80.746258 | 68.309602 | 79.299014 | | 73.804308 |
| Griffin High School | [Charter] | 1468 | [917500] | | [625.0] | 83.351499 | | 83.816757 | 93.392371 | 97.138965 | | 95.265668 |
| Hernandez High School | [District] | 4635 | [3022020] | | [652.0] | 77.289752 | | 80.934412 | 66.752967 | 80.862999 | | 73.807983 |
| Holden High School | [Charter] | 427 | [248087] | | [581.0] | 83.803279 | | 83.814988 | 92.505855 | 96.252927 | | 94.379391 |
| Huang High School | [District] | 2917 | [1910635] | | [655.0] | 76.629414 | | 81.182722 | 65.683922 | 81.316421 | | 73.500171 |
| Johnson High School | [District] | 4761 | [3094650] | | [650.0] | 77.072464 | | 80.966394 | 66.057551 | 81.222432 | | 73.639992 |
| Pena High School | [Charter] | 962 | [585858] | | [609.0] | 83.839917 | | 84.044699 | 94.594595 | 95.945946 | | 95.270270 |
| Rodriguez High School | [District] | 3999 | [2547363] | | [637.0] | 76.842711 | | 80.744686 | 66.366592 | 80.220055 | | 73.293323 |
| Shelton High School | [Charter] | 1761 | [1056600] | | [600.0] | 83.359455 | | 83.725724 | 93.867121 | 95.854628 | | 94.860875 |
| Thomas High School | [Charter] | 1635 | [1043130] | | [638.0] | 83.418349 | | 83.848930 | 93.272171 | 97.308869 | | 95.290520 |
| Wilson High School | [Charter] | 2283 | [1319574] | | [578.0] | 83.274201 | | 83.989488 | 93.867718 | 96.539641 | | 95.203679 |
| Wright High School | [Charter] | 1800 | [1049400] | | [583.0] | 83.682222 | | 83.955000 | 93.333333 | 96.611111 | | 94.97222 |

**Top Performing Schools (By Passing Rate)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **School Type** | **Total Students** | **Total School Budget** | **Per Student Budget** | **Average Math Score** | **Average Reading Score** | **%Passing Math** | **%Passing Reading** | **%Overall Passing Rate** |
| **school\_name** |  |  |  |  |  |  |  |  |  |
| Cabrera High School | [Charter] | 1858 | [1081356] | [582.0] | 83.061895 | 83.975780 | 94.133477 | 97.039828 | 95.586652 |
| Thomas High School | [Charter] | 1635 | [1043130] | [638.0] | 83.418349 | 83.848930 | 93.272171 | 97.308869 | 95.290520 |
| Pena High School | [Charter] | 962 | [585858] | [609.0] | 83.839917 | 84.044699 | 94.594595 | 95.945946 | 95.270270 |
| Griffin High School | [Charter] | 1468 | [917500] | [625.0] | 83.351499 | 83.816757 | 93.392371 | 97.138965 | 95.265668 |
| Wilson High School | [Charter] | 2283 | [1319574] | [578.0] | 83.274201 | 83.989488 | 93.867718 | 96.539641 | 95.203679 |

## Bottom Performing Schools (By Passing Rate)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **School Type** | **Total Students** | **Total School Budget** | **Per Student Budget** | **Average Math Score** | **Average Reading Score** | **%Passing Math** | **%Passing Reading** | **%Overall Passing Rate** |
| **school\_name** |  |  |  |  |  |  |  |  |  |
| Rodriguez High School | [District] | 3999 | [2547363] | [637.0] | 76.842711 | 80.744686 | 66.366592 | 80.220055 | 73.293323 |
| Figueroa High School | [District] | 2949 | [1884411] | [639.0] | 76.711767 | 81.158020 | 65.988471 | 80.739234 | 73.363852 |
| Huang High School | [District] | 2917 | [1910635] | [655.0] | 76.629414 | 81.182722 | 65.683922 | 81.316421 | 73.500171 |
| Johnson High School | [District] | 4761 | [3094650] | [650.0] | 77.072464 | 80.966394 | 66.057551 | 81.222432 | 73.639992 |
| Ford High School | [District] | 2739 | [1763916] | [644.0] | 77.102592 | 80.746258 | 68.309602 | 79.299014 | 73.804308 |