**Analysis for City School Report**

**Summery:**

* The python notebook includes an overall District Summary report, overall School summery, school performance report based on per capita budget, student count and school type.
* In the district summery we can see the overall performance for the district.

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

* In the School summery report we provide the analysis of performance for each school. From there we can see the top and bottom performed schools from the district.
* Top 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 |

* Bottom 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 |

* I have created other reports which compares school performance based on per student spending, student count and school type:

|  | **Average Math Score** | **Average Reading Score** | **% Passing Math** | **% Passing Reading** | **% Overall Passing** |
| --- | --- | --- | --- | --- | --- |
| **Spending Ranges (Per Student)** |  |  |  |  |  |
| **<$585** | 83.455399 | 83.933814 | 93.460096 | 96.610877 | 90.369459 |
| **$585-630** | 81.899826 | 83.155286 | 87.133538 | 92.718205 | 81.418596 |
| **$630-645** | 78.518855 | 81.624473 | 73.484209 | 84.391793 | 62.857656 |
| **$645-680** | 76.997210 | 81.027843 | 66.164813 | 81.133951 | 53.526855 |

|  | **Average Math Score** | **Average Reading Score** | **% Passing Math** | **% Passing Reading** | **% Overall Passing** |
| --- | --- | --- | --- | --- | --- |
| **School Size** |  |  |  |  |  |
| **Small (<1000)** | 83.821598 | 83.929843 | 93.550225 | 96.099437 | 89.883853 |
| **Medium (1000-2000)** | 83.374684 | 83.864438 | 93.599695 | 96.790680 | 90.621535 |
| **Large (2000-5000)** | 77.746417 | 81.344493 | 69.963361 | 82.766634 | 58.286003 |

| **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 |

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**Conclusions:**

* From the reports we can see spending more money per student doesn’t reflect to the performance, rather lower spending ranges produce more passing rates.
* Schools with high number of students perform worst. As per data, schools with student range 1000 – 2000 has the best performnace,
* Charter type schools performs much better than the district type schools.