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| UWA Data Analytics Boot Camp | |
| Pandas Challenge Week 04 Homework | |
| Document No.: 0000-AS-UWA-10004  Security Classification: Unrestricted | |
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# Observations

1. There is a total of 15 schools and 39170 students across the 15 schools.
2. The average math score across all 15 schools is 78.99% and the average reading score is 81.88%.
3. The overall passing across the all 15 schools is 65.17%
4. The top five performing schools with the highest overall percentage are the following in order from highest with Cabrera High School having the highest overall percentage scored at 91.33%.
   1. Cabrera High School
   2. Thomas High School
   3. Griffin High School
   4. Wilson High School
   5. Pena High School
5. The worst five performing schools with the lowest overall percentage are the following in order of lowest with Rodriguez High School having the lowest overall percentage scored at 52.98%.
   1. Rodriguez High School
   2. Figueroa High School
   3. Huang High School
   4. Hernandez High School
   5. Johnson High School
6. The average math score at the top performing school (Cabrera High) scored at 83.06 with the 12th graders performing the best with 83.27.
7. The average reading score at the worst performing school (Rodriguez High) scored at 80.74 with the 12th graders performing the worst with 83.37.
8. Schools with a total budget per student less than $584 have the highest percentage of overall passing with the score being 90.37%.
9. Schools with between 2000 – 5000 students have the lowest percentage of overall passing with the score being 58.29%.
10. Charter Schools have the highest overall passing percentage with the score of 90.43%

# Summary

In summary, out of the 15 schools, Cabrera High which is a Charter school with 1858 students has the highest overall passing percentage scored at 91.33% with a spending range of less than $584 per student.

In conclusion, Schools with higher spending averages have a lower overall passing rate compare to medium and small schools which have a higher overall passing rate. It is also evident Charter schools have a higher overall passing rate than district schools.