4/6/2020

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PyCitySchools Report

Pandas Assignment

1. ***Large size schools (with 2500 more students) seem to be spending more, still none of them having a good (>70%) success***. (This might be because of factors like less proportion of teachers and budget is allocated for other facilities etc.) ***This means that size beyond 2500 students have an adverse effect on performance.*** This information should be passed to schools and need to check if they have any specific resource crunch to manage large number of students. Another, key observation is all the top - 4 performing schools are of size between 1400-2500!!

![A screenshot of a cell phone

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1. ***It seems like schools have pretty much consistent performance (%of students who passed in both math & reading) through all the grades.*** Maybe, same faculty is teaching across the grades!!! However, some schools have shown some leaps and falls through grades. ***Out of all the schools, only "Figueroa High School", "Ford High School", "Holden High School" and "Shelton High School" are showing more than 4% variation across grades.*** We need to enquire and find out what is changing across the grades for them.



Table Max variation across grades

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1. ***Though there are almost equal number of Charter and District schools, the former type has way more passing % compared to the latter***. Also, note ***the avg size of the District schools***. It is ***way more than the Charter schools***. We should enquire about, why District schools perform bad, is it the size or some other hidden factor?

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Table Charter Vs District Performance

1. ***ALL the schools have a better passing percentage in Reading compared to Mathematics.*** Across schools, while 89% of the students pass in reading, only 80% pass in mathematics. ***The low performing schools perform poorly in math, hence, the overall passing percentage drops.*** Authorities need to take some considerable measures to improve math in those schools.

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Table Math Vs Reading