Pandas Analysis – PyCitySchools

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**Key Conclusions**:

1. Top Performing school are ‘Charter’ schools
   * Charter schools have an overall passing rate of 90%
   * The top 5 performing schools have similar high passing rates in both reading and math.
   * These top 5 charter schools are medium in size with an average student enrollment of 1643 students (962 – 2293)
   * The average budget per student is also in the low end ($604.4 per students) as compared to low performing schools ($646.6 per student)
2. Bottom Performing Schools are ‘District’ schools
   * District schools have an overall passing rate of 53.7%.
   * Bottom 5 performing schools have a higher number of students (3852) on average as compare to top performing schools.
   * Average math scores for bottom district schools is significantly lower (77%) than reading score (81%). As a result a much lower percentage of students are passing math (66%) as compared to 81% fs students passing reading. In comparison, top performing schools have comparable math and reading scores (83-84%). Additional analysis may be warranted to understand this difference.
3. Highest spending schools (on a per students basis) tend to perform worse than schools ‘lower-spending’ schools. Over 90% of students have an overall passing rate for schools spending less than $585 per student. In comparison, high spending schools (above $645 per student) have an overall passing rate of 53.5%. These schools tend to have large budgets but also a very high number of students (above 2000 students per school).