Module 4 Challenge – Report

* Summarize the analysis:
  + The first data set used for this analyses summarizes 15 schools of a district of 2 different types – District and Charter schools.
  + The data also includes the sizes and budgets of the schools.
  + The second data set covers all students within these 15 schools and their grades in math and reading
  + After processing, the data shows all schools have a very similar budget – between 580 and 680 per student but they do vary in size more widely – from less than 1000 students up to 5000.
  + The results for the reading and math grades shows a good performance in both math and reading for all schools
  + Students from all schools achieved more than 70% on average in math and more than 80% in reading
  + The overall pass rate however is varies between 52 and 91%.
* Conclusions/Observations:
  + All 5 of the best performing schools in this data set are Charter schools.
  + On the other hand, the 5 worse performing schools are District schools.
  + The top 5 best performing schools are also significantly smaller in size, with the biggest having 2283 students, whereas the biggest of the bottom 5 performing schools has 4761 students – more than double.
  + The data also shows that math and reading scores are almost constant throughout 9th to 12th grade for all 15 schools.
  + The schools with a smaller budget per student have a much higher overall pace rate than the better funded ones.
  + Smaller schools outperform bigger schools in terms of overall pass rates.