HW : 4 PyCity Schools Analysis

For this assignment two CSV files are given, one with school name, type, size and budget, and other one with students and their reading and math score.

The average passing data for both the type of schools, charter and district, is as shown below :

	Total Schools	Total Students	Total Budget	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Passing Overall
0	15	39,170	$24,649,428.00	78.985371	81.87784	74.980853	85.805463	65.172326

From the data give it can be concluded that

1. Charter schools has higher percent passing in math and reading. Also, of 15 schools under study all eight Charter schools ranked first followed by district schools.

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

2. Schools with number of students greater than 2000 had less overall passing percentage

School Size	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
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

3. Charter Schools has less students along with less per student budget, but with higher % overall passing rate.

Spending Ranges (Per Student)	Average Math Score	Average Reading Score	% Passing Math	% Passing Reading	% Overall Passing
<$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

4. More information on the teacher to student ratio, private funding, school grade, extra curriculum activities and location of schools will help in analyzing the data further.