Written Description

“Using Pandas and Jupyter Notebook, create a report that includes the following data. Your report must include a written description of at least two observable trends based on the data.”

1. Students attending charter schools have much higher test scores and passing rates than their counterparts attending district schools. 90.56% of charter school students pass both math and reading assessments, while only 53.70% of district school students meet the same benchmark.
2. Students in schools with less than 2500 students perform much better on these tests versus students in large schools of more than 2500 students. However, all charter schools are below 2500 students and all district schools are above 2500 students, so it is difficult to make a meaningful conclusion from this correlation as performance is correlated with both size and type of school.
3. A contradictory correlation from this data set is the more money spent per student, the worse the student performs on these tests. This is most likely due to charter schools spending less per student due to lower student populations among other factors. Again, it is difficult to draw conclusions from these correlations as several confounding variables exist.
4. Here is a table to show some of the observable correlations.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Type | Size | $/student |
| Description (Overall Pass %) | Charter (90.56%) | <2500 (90.56%) | <$618  (~90%) |
| District (53.70%) | >2500 (53.70%) | >$618  (~58%) |

Charter schools: All have <2500 students, all but 2 spend <$618 per student.

District schools: All have >2500 students, all spend >$618 per student.