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**Denver University Data Analytics Bootcamp**

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**Module 4 Challenge**

**Module 4 Challenge Background**

* You are the new Chief Data Scientist for your city's school district. In this capacity, you'll be helping the school board and mayor make strategic decisions regarding future school budgets and priorities.
* As a first task, you've been asked to analyze the district-wide standardized test results.
* You'll be given access to every student's math and reading scores, as well as various information on the schools they attend. Your task is to aggregate the data to showcase obvious trends in school performance.

**Analysis**

**Include a written description of at least two observable trends based on the data.**

**- This Analysis takes math and reading grade data from Charter and District schools from 9th to 12th grade and organizes the results by category groups such as budget and size.**

**- Charter schools out-performed the public district schools across all metrics, however charter school also serve smaller student populations with Charter Schools averaging 1,717 students and Public Schools averaging 4,063 students which may impact scores and grades.**

**- Reading Scores measured in 12th Grade saw the highest discrepancy between the top and bottom average scores per school, with the lowest score being 80.37 vs the highest average score being 84.69.**

**- Schools that fell in the "Smaller and Medium" size pools out-performed schools in the "Large" threshold in Overall Passing Percentage with Smaller and Medium size schools averaging a 90.25% Overall Pass Rate vs the Large achieving only 58.98%.**