# Module 4 Challenge – Pandas – Analysis Report

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Class: U of M Data Analytics and Visualization Boot Camp , Spring 2024

Student: **Mark Olson**

Professor: **Thomas Bogue**

Date: 04/25/2024

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## Purpose:

To help the School Board and Mayor make informed strategic decisions regarding future school budgets and priorities.

## Summary of the Analysis:

* Data for the city's school district was examined.
* Analyzed district-wide standardized test results.
* Focus areas of the analysis:
  + District Summary
  + School Summary
  + Highest Performing Schools by Percentage of Overall Passing
  + Lowest Performing Schools by Percentage of Overall Passing
  + Math Scores by Grade
  + Reading Scores by Grade
  + Scores by School Spending
  + Scores by School Size
  + Scores by school Type
* Aggregated the data to showcase trends in school performance.

## Conclusions:

1. Must consider prioritizing the Math curriculum.

- Average math scores are lower than average reading scores ... across the board.

1. Must consider prioritizing Charter schools with limited student populations.

- The highest performing schools are Charter schools with less than 2290 students, while the lowest performing schools are District schools with over 2910 students

- District schools have more have more students, and more funding dollars per student. Charter schools have less students, and less funding dollars per student.

- Large schools with more > 2000 students have lower average math and reading scores than medium schools and small schools

- spending more per student does not guarantee success.