**Summary of the analysis**

Background

Purpose of this analysis is how the passing rates (independent variable) is depending on some given dependent variables. Analysis summary would help make strategic decisions regarding future school budgets and priorities.

Audience: Board of School and Mayor

Assumptions

* School budgets is equally distributed among subject material and other infrastructure for given two subjects math and reading.
* Syllabus and the talent pool is treated equally among all the schools.

Areas analyzed

Key areas analyzed

* + Average Math Score
  + Average Reading Score
  + Percentage of passing Math
  + Percentage of passing Reading
  + Overall percentage of passing both subjects

Outputs

* + District summary is a high-level snapshot of the district's key metrics.
  + School summary is a high-level snapshot of the school key metrics.
  + Highest and lowest school based on the overall performance.
  + Math score analysis for all the school for all the grades.
  + Reading score analysis for all the school for all the grades.
  + Overall performance by School Spending
  + Overall performance by School Size
  + Overall performance by School Type

Key findings (2 key finding mentioned bellow)

Overall passing score based on the school size.

School sizes:

* Small (number of students <1000)
* Medium (number of students between 1000 and 2000)
* Large (number of students between 2000 and 5000)

Summary results by school size

A screenshot of a math test

Description automatically generated

When comparing the overall passing score against the size of the school (number students) overall passing score is significantly lesser for the schools having more students. Overall passing score for the large schools is 58.29 and which is nearly 30 points leaser than the medium and small schools.

Overall passing score based on the school type

School types:

* Charter
* Districts

Summary result by school type

A screenshot of a math test

Description automatically generated

When comparing to the charter schools, overall passing score of the districts school are significantly lesser. Overall passing score for the districts schools is 53.67 which is nearly 40 points lower than the charter schools.