City School Analysis

Summary

This script is designed to assist the city's school district in making informed strategic decisions regarding upcoming school budgets and priorities.

This script includes the following for the district summary:

* Total number of unique schools
* Total students
* Total budget
* Average math score
* Average reading score
* % passing math (the percentage of students who passed math)
* % passing reading (the percentage of students who passed reading)
* % overall passing (the percentage of students who passed math AND reading)

The script includes the following for the school summary:

* School name
* School type
* Total students
* Total school budget
* Per student budget
* Average math score
* Average reading score
* % passing math (the percentage of students who passed math)
* % passing reading (the percentage of students who passed reading)
* % overall passing (the percentage of students who passed math AND reading)

Report

In the size summary data frame, we notice that smaller to medium-sized schools tend to have a better chance of students passing. This could be because in smaller schools, students receive more personalized attention from teachers. With fewer students to focus on, teachers can spend more time helping each student, which may contribute to their success in academics.

In the summary data frame comparing school types, when we look at charter schools versus district schools, it's clear that charter schools tend to have higher overall passing rate. Furthermore, charter schools have the advantage of creating their own teaching styles and educational programs, enabling them to introduce creative and customized teaching techniques. This adaptability, along with the individualized support offered in smaller classes, plays a role in the improved grades and overall success rates seen in charter schools.