**Module 4 -Challenge**

**PyCitySchools**

Introduction :The Task is to analyze the district-wide standardized test results which can help the school board and mayor make strategic decisions regarding future school budgets and priorities.

**Calculated Metrics for analysis**

* District Summary
* School Summary
* Highest-Performing Schools (by % Overall Passing)
* Lowest-Performing Schools (by % Overall Passing)
* Math Scores by Grade
* Reading Scores by Grade
* Scores by School Spending
* Scores by School Size
* Scores by School Type

**Analysis Summary:**

* Analysis done for 15 schools in a district with total 39170 number of students with more than 65 % students passing in Math and reading.
* School with large student size and high budget show low performance.
* Charter type schools perform better compared to District type.
* Schools operating with lower budgets perform better
* Cabrera High School is the best performing school with overall 91% student performance with budget spending <$585 category and is a Charter type school.
* Rodriguez High School is the lowest performing school with overall 51% student performance with a budget spending in $630-645 category and is a District type school.

**Conclusions:**

* **The higher amount of budget does not impact school performance. Schools with higher budget have a performance of 53% compared to low budget schools(90%)**
* **Schools with more number of students show poor performance (58%) compared to small and medium sized schools( 89-90%)**