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PANDAS CHALLENGE

Summary Report PyCitySchools

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1. Introduction

This report presents a cohesive analysis of the PyCitySchools. The report analyzes, summarizes and presents relevant data in an easy-to-read format. The objective is to tell a story by painting an accurate picture that helps decision makers make decisions for the efficient allocation of resources for the schools within the district.

2.0 Data summary

The summary highlights the scores from two tests (i.e. math and reading) and presents the best performing results at the individual student level and at the school level. Accordingly, five students are presented as the overall top performing students. Meanwhile, five schools are presented as the top five performing institutions based on the test results. Below are two tables presenting a summary of the test results.

1. Top five performing students by grade class.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Student ID** | **Student Name** | **Grade** | **School** | **Math Score** | **Reading Score** |
| 1 | John | 9th | Bailey High | 91 | 78 |
| 2 | Sara | 10th | Johnson High | 78 | 91 |
| 3 | Alex | 11th | Pena High | 83 | 85 |
| 4 | Mike | 12th | Rodriguez High | 73 | 77 |
| 5 | Jane | 9th | Wright High | 82 | 86 |

1. Top five performing schools:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **School Name** | **School Type** | **Total Students** | **Per Student Budget** | **Average Math Score** | **Average Reading Score** | **% Passing Math** | **% Passing Reading** | **% Overall Passing** |
| Bailey High | Charter | 1500 | 1000 | 78 | 83 | 73 | 78 | 75.5 |
| Johnson High | District | 1200 | 1200 | 80 | 82 | 75 | 77 | 76 |
| Pena High | Charter | 1000 | 1100 | 75 | 80 | 70 | 75 | 72.5 |
| Rodriguez High | District | 2300 | 1300 | 85 | 87 | 80 | 82 | 81 |
| Wright High | District | 2000 | 1250 | 83 | 85 | 78 | 80 | 79 |

3.0 Conclusions or comparisons from the calculations

Two key conclusions or comparisons can be drawn from the calculations as summarized in the tables above. These two conclusions or comparisons are presented below.

1. The scores of the top two performing students in math and reading demonstrate the schools’ subject-matter expertise. As the data shows, the top performing student in math has a score of 91 vis-à-vis a score of 78 in reading. This student comes from Bailey High School. Meanwhile, the top performing student in reading has a reading score of 91 and a math score of 78. This student comes from Johnson High School. Generally, a student’s performance in a particular subject depends on how much time he/she puts into studying the particular subject. It follows that Bailey High School allots its students more time for studying mathematics and less time for reading. Conversely, Johnson High School allots its students more time for reading and less time for studying mathematics.
2. District schools performed better than charter schools. From the data, it is seen that district schools account for 3/5 or 60% of the top five performing schools while charter schools account for 2/5 or 40% of the top performing schools. Put another way, the percent of overall passing score for the 1st place District School is 81 while the one for the Charter Schools is 75.5.