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**Written Report (15 points)**

To receive all points, the written report presents a cohesive written analysis that:

* Summarizes the analysis (5 points)
* Draws two correct conclusions or comparisons from the calculations (10 points)

1. **Analysis**
2. District Summary

Overview of all school district data was completed. From the given 15 schools data and their respective students (39170 in total) data, it was found that there was budget of $82,932,329,558.00 allocation in total. Students’ achievement (grade score) resulted as below.

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1. School Summary

The given data were further analysed to get school based results. When python commands used, following data appeared.

A screenshot of a graph

Description automatically generated

1. Scores by School Spending

When data further evaluated using Python – pandas commands, following results appeared.

A screenshot of a graph

Description automatically generated

When the following average value calculated, it was noted spending ranges <585 and between $585 - $630 had the higher achievement score / ratings than the spending ranges for $630 - $645 and $645 - $680.

A screenshot of a black and white screen

Description automatically generated

1. Scores by School Size

Similarly, when data computed to review scores by school size, following results appeared.

A table with numbers and numbers

Description automatically generated

When average score and overall passing rate calculated, it was noted that small and medium sized school had the higher achievement ratings or score than the schools with large occupancy capacity.

A screenshot of a graph

Description automatically generated

1. School Type

When average and percentage scores (as below) calculated for schools by type, it was identified that Charter type schools were achieve much higher than the school district type.

A screenshot of a graph

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1. **Conclusion**

From the above analysis and findings, it can be concluded as below:

* 1. Schools by charter type are achieving higher success in running their education.
  2. Small and medium schools are achieving better scores on students than large schools by size.
  3. Schools in spending ranges from $585 to $630 had the higher achievement score than the schools in spending ranges between $630 to $680.

When data further analysed following high performing and low perming schools noted.

**High performing school**

A screenshot of a graph

Description automatically generated

**Low performing school**

A screenshot of a cell phone

Description automatically generated