**Assignment 1**

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**Q) Explain what kind analysis has become easier with each of the visualizations. Create the folder structure for this question similar to question 1?**

**Math, Reading, and Writing Scores by Gender:**

It is simple to compare arithmetic test results between male and female pupils with the help of this score display. Finding any gender-based discrepancies in math performance becomes simpler. This reading score visualization contrasts the reading scores of male and female pupils, much like the math score visualization. It aids in determining whether gender differences exist in reading proficiency. This writing score visualization facilitates the comparison of male and female students' writing scores. It helps to detect any differences in writing ability according to gender.

**Math, Reading, and Writing Scores by Race/Ethnicity:**

It is possible to compare scores between various racial or ethnic groups using these representations. Any differences in academic achievement based on race or ethnicity become easier to discern.

**Math, Reading, and Writing Scores by Parental Level of Education:**

Understanding the effect of parental education on student achievement is made easier with the aid of these visual aids. They facilitate the observation of whether children who have more educated parents typically outperform their peers in the classroom.

**Math, Reading, and Writing Scores by Lunch Type:**

These visualizations offer insights on the possible impact of diet on academic achievement by comparing scores based on the style of lunch. It aids in determining whether children’s test results vary depending on the type of lunch they eat.

**Math, Reading, and Writing Scores by Test Preparation Course:**

These visualizations enable the comparison of scores between students who completed a test preparation course and those who did not. They make it easier to observe the effectiveness of test preparation courses in improving academic performance across different subjects.