**Assignment-1**

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**Data visualizations**

**Average Reading Score by Gender** shows that the average reading scores for female students are higher than those for male students and difference in scores which tells us that gender may influence reading performance. To determine whether a distribution is normal, skewed, or contains outliers, the **Distribution of Math** results display the range of math results, with most pupils scoring in the middle. **Test Preparation Course's Effect on Writing Scores:** Students who have taken a test preparation course typically have higher writing scores. Scores for **Reading and Writing by Gender Writing** and reading scores are found to be strongly correlated. In both subjects, female students often perform better, according to the gender-wise differentiation. **Performance Across Race/Ethnicity Groups:** This indicates that some groups do better in particular subjects, which may be a sign of inequalities in educational or socioeconomic backgrounds.

A graph of a bar graph

AI-generated content may be incorrect.

A graph of a distribution of math scores

AI-generated content may be incorrect.

A graph of a test preparation course

AI-generated content may be incorrect.

A graph with blue and orange lines

AI-generated content may be incorrect.

A graph of different races

AI-generated content may be incorrect.