**ASSIGNMENT-1**

**DATA SET – Students Performance Results**

The Students Performance data set consists of 7 features with 1000 rows of data which includes-

**A picture containing calendar

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1. Let us plot a graph between Race Ethnicity and Frequency where X-axis showing Frequency of distribution whereas Y-axis showing Race Ethnicity.

**Chart

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**Outcome: We can conclude that Group C in the "race/ethnicity" category has the widest range of categories which is 319.**

**2.1** Let us create a graph with the X-axis representing Gender and the Y-axis representing Math Score.

Chart, box and whisker chart

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**Outcome: We can draw the conclusion that male pupils have performed better in math than female students.**

**2.2** Let's draw a graph between sex and the reading score of students, with the x-axis representing sex and the y-axis representing scores.

Chart, box and whisker chart

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**Conclusion: Based on the results, we can say that female students performed better in reading than male students.**

**2.3** Let us create a graph where the X-axis represents Gender, and the Y-axis represents writing score.

**Chart, box and whisker chart

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**Conclusion: The findings indicate that female pupils outperformed male students in reading.**

**3.** Let us create a graph where the X-axis represents Math score, and the Y-axis represents reading score of male & female.

**Chart, scatter chart

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**Output: The implication of this story is that while girls are superior to boys in reading, boys are superior to girls in math.**

**4.** Let us create a graph where the X-axis represents Math, Reading , writing scores and the Y-axis represents frequency.

**Chart, histogram

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**Output:**  **It can be assumed that the majority of the students scored grade between 60 and 80**.

**5.** Let us create a graph where the X-axis represents frequency, and the Y-axis represents race ethnicity.

**Chart

Description automatically generated**

**According to the plot above, most students who successfully finished the preparation course were male and female members of ethnicity group C. Most students who did not finish the preparation course were from ethnicity groups C for females and D for males, respectively.**