**Principles of Data Science Assignment-1**

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**Q2: Explain what kind analysis has become easier with each of the visualizations?**

A bar chart employs vertical bars to depict the frequency or count of each category, such as parental education level. Each bar represents a single category (e.g., bachelor's degree, some college), and its height shows the frequency of that category in the data. The bar chart allows you to easily compare the frequency of each category. Simply comparing the heights of the bars allows you to immediately determine whether parental education level is more or least frequent among the youngsters. Even people who have no prior experience with data analysis will find bar charts straightforward and easy to read. The visualisation clearly depicts the distribution of parental education levels, making it easier to grasp the educational backgrounds of the kids' parents. The bar chart provides insights into the educational demographics of the kids' family. For example, you may readily determine whether the bulk of pupils come from higher-educated homes or if parental education backgrounds vary. The Parental Level of Education Bar Chart makes it easier to analyse and analyse categorical data distributions, offering useful insights into the educational environment of students family.