Students performance in exams

**Purpose:**

The purpose of this study is to analyze the student’s performance in exams that are impacted by the different variables such as gender, social category, quality of food, family education background, and their self-participation in various curriculum.

**Description:**

The data collection method was broadly grouped into two main categories: cause as a compare group and effect as a performance result. First, the cause was listed as the background of the students which includes the belonging to their racial/ethnic group, gender separation, and level of parental education background. Additionally, one category was self-participation on the test preparation courses, simultaneously the quality of the food “lunch” was listed as one of the reasons behind student’s performances. The social category “race/ ethnicity” was divided among five different racial/ethnic groups: A, B, C, D and E. Similarly, the quality of the food was separated into two types of lunch meals such as, standard lunch and free and reduced lunch. Concurrently, the parent’s education background was divided into six categories such as, some high school, high school degree, associate degree, some college, bachelor degree and master degree. Second, the data was collected to demonstrate how those compare group affecting the student performance in test of math, reading, and writing. The exam score was collected based on the standard grading system minimum 0 to a maximum of 100.

**Objectives:**

The objective of this study is to find out the parent's educational background that affects student performance and shows the comparative result. Similarly, this analysis determines which racial/ethnic groups are performing better and figuring out the reasoning behind their performance. Moreover, how the meal and test preparation affect student performance. Finally, present which gender is better on what subject.

**Audience:**

The student can take benefit by seeing the effect of a test preparation course on their test score. Indeed, the students may discover the level their education could impact on their children’s education in the future. Parents can take benefits from this analysis because the quality of food could affects their children's performance. Simultaneously, it is beneficial for the government branch who is working to improve the education system among the minorities and under privilege racial/ethnic groups.

**Reference:**

<https://www.kaggle.com/spscientist/students-performance-in-exams>