



Student Academic Performance in Relation to Parental Education

What are we looking for and why?

What are the effect of a parent's education levels and economic status on his or her child's test scores?

- We wanted to investigate how a parent's education and economic status would affect their children's academic performance in school. Through understanding this data, professionals could make decisions to better cater to all students in order to produce the best outcomes for them.



What data did we use to analyze the problem?

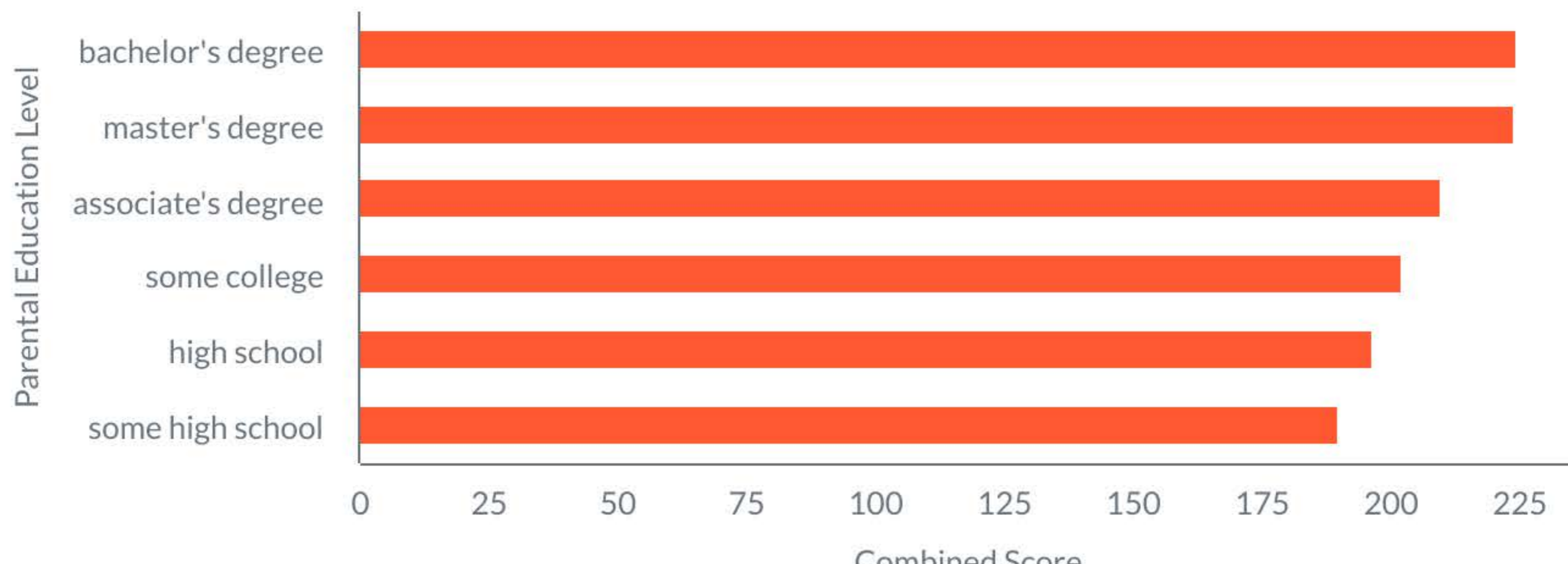


The data set included information about each student's gender, race/ethnicity, parental level of education, lunch, test preparation course, math score, reading score, and writing score.

- Parental level of education
- Student's writing, reading, and math scores
- Students' lunch status

1. Correlation between parental level of education and students' test scores

Combined Test Score & Parental Education



There is a **positive trend** between **additional degrees earned** and **students' exam scores**.

Students' Combined Test Score on Average (parents have bachelor's degrees)

224.71

Students' Combined Test Score on Average (parents have some high school degrees)

189.99

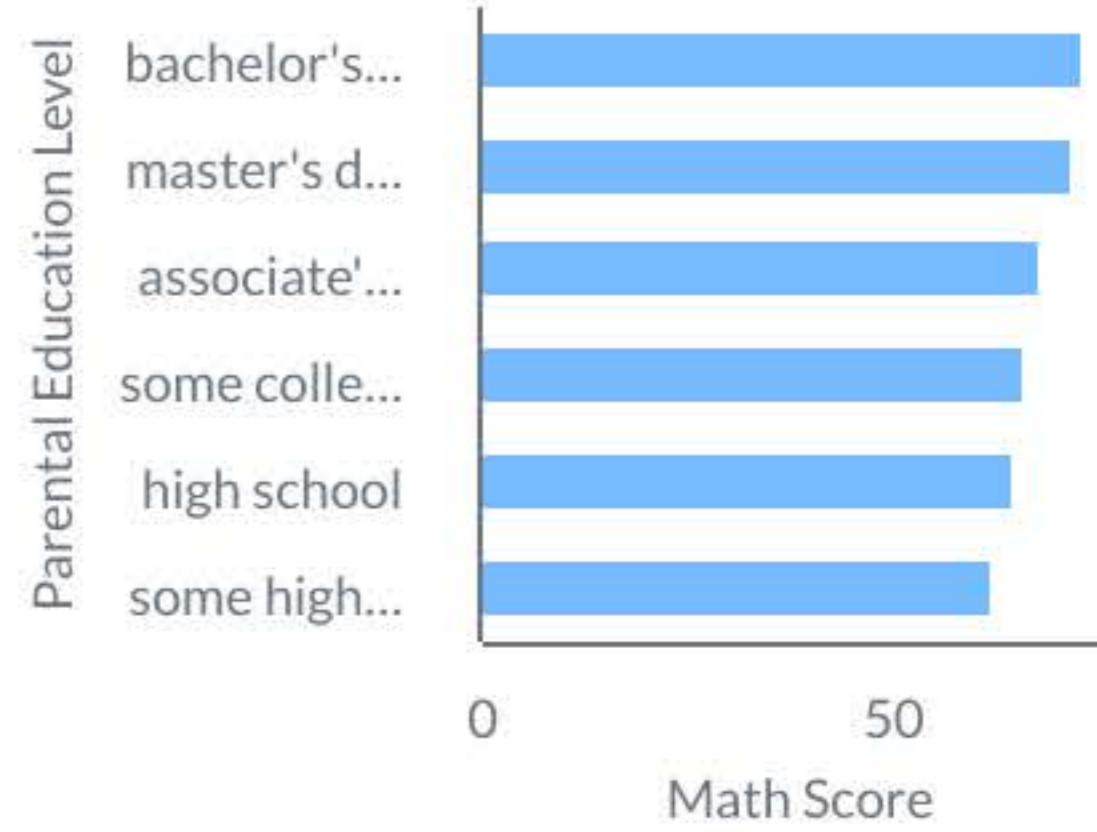
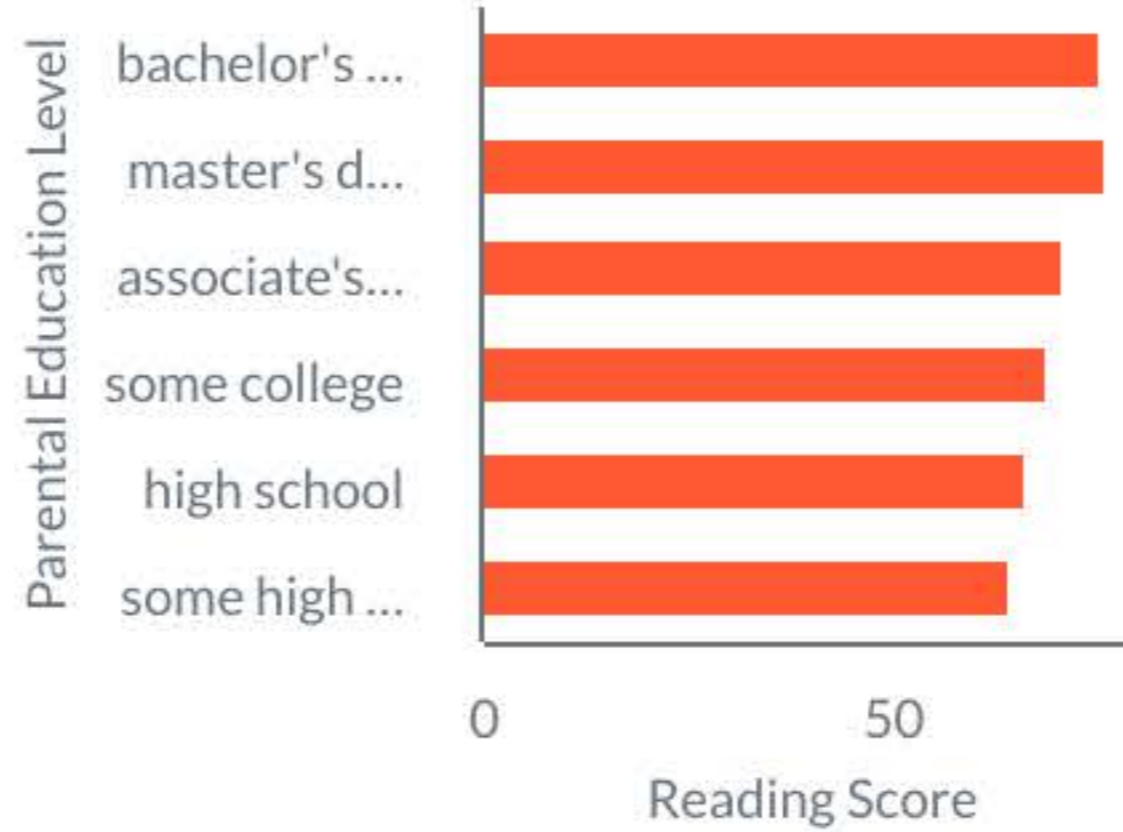
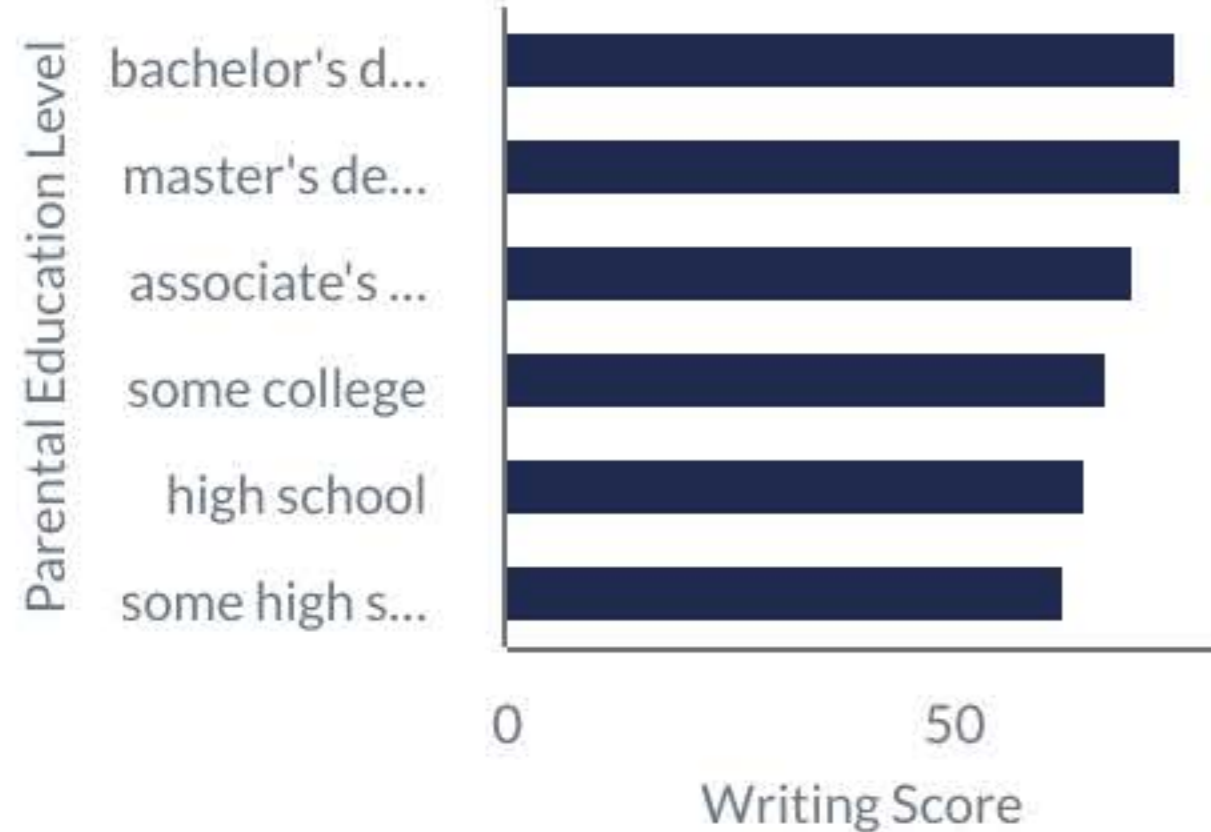


Students' Test Score are **▲ 18%** higher if their parents have additional degrees earned.

Writing

Reading

Math



Students' Test Score on Average in Each Subject (parents have bachelor's degrees)

74.9

Students' Test Score on Average in Each Subject (parents have some high school degrees)

63.32



Students' Test Score are **▲ 18%** higher if their parents have additional degrees earned.

2. Correlation between parental level of education and students' test scores in terms of standard lunch

Stuednts w/ Standard Lunch

Stuednts w/ Free or Reduced Lunch



Students who have standard lunch (or parents with higher incomes) have a combined exam score of **215.64**

Students who have free/reduced lunch (or parents with lower incomes) have an average combined of **183.69**