

# Student Performance in Exams

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BSDS 100, Final Project Presentation

# Our Guiding Question

*Statement of question/topic that we want to answer and what motivated you to study the question/topic*

**“How do students’  
backgrounds affect  
academic  
performance?”**

# Our Dataset

*If applicable, what data will you analyze?  
Identify at least one source.*

## “Students Performance in Exams.”

[source: Kaggle]

“Does race/ethnicity have an effect on whether a student completes a test prep course?”

“How do identities such as gender, race/ethnicity, and parental level of education impact students’ scores?”

“Does a student’s parental level of education affect whether the student is on a standard or free/reduced lunch program?”

“How is parental level education and race/ethnicity related?”

# Our Challenges

*What challenges did you face in analyzing this data?*

“What is the **grade level** of the students?”

“What kind of **exam** was taken?”

“Which **races/ethnicities** belong to Groups A-E?”

“Was the **test prep** course free?”

# Our Packages

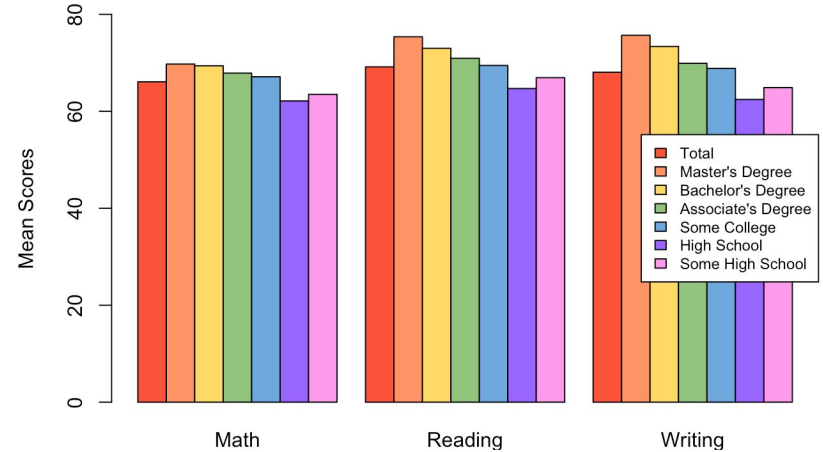
*What packages were needed for this case study?*

We applied knowledge of **importing & reading .csv files, data frame creation and manipulation, subsetting matrices, and variance & standard deviation**

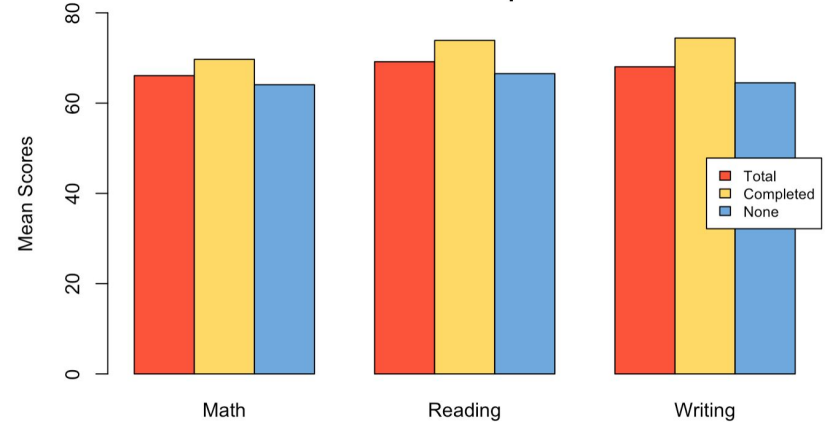
# Our Discussion

*What did you learn from this experience? What more could you do with this project in the future?*

Mean Scores & Parental Level of Education



Mean Scores & Test Preparation Course



# Our Discussion

*What did you learn from this experience? What more could you do with this project in the future?*

Understanding how **race**,  
**socioeconomic status**,  
and **gender** identities  
impact **academic**  
**performance** is the first  
step in leveling the playing  
field toward more **equitable**  
education.

Thank You!