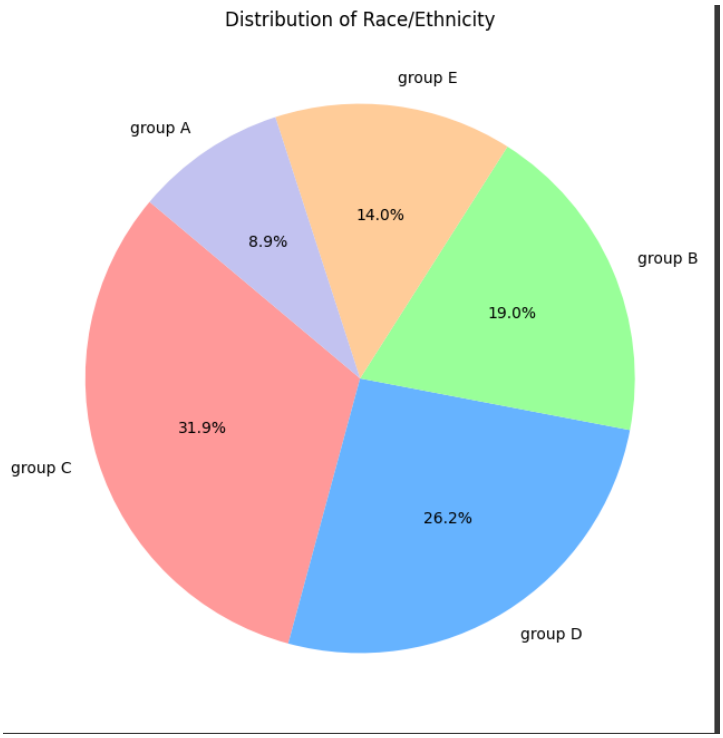
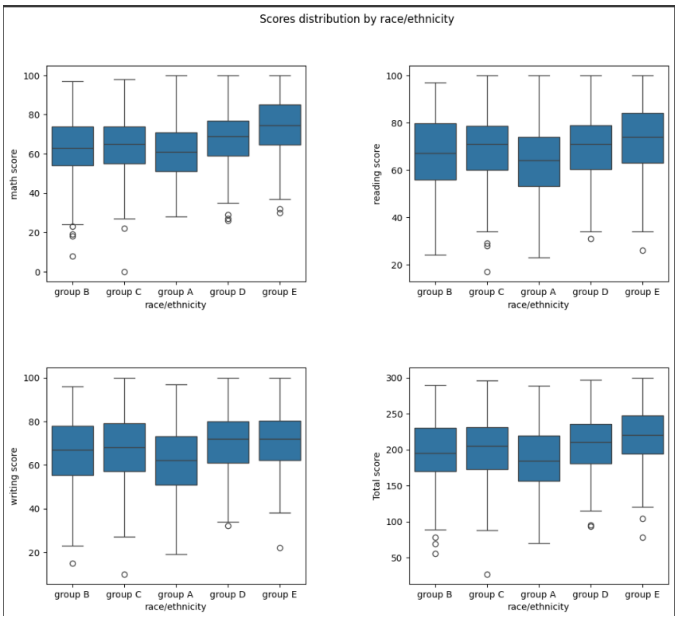
PDS ASSIGNMENT Q2 16354141 MATURI TANUJ

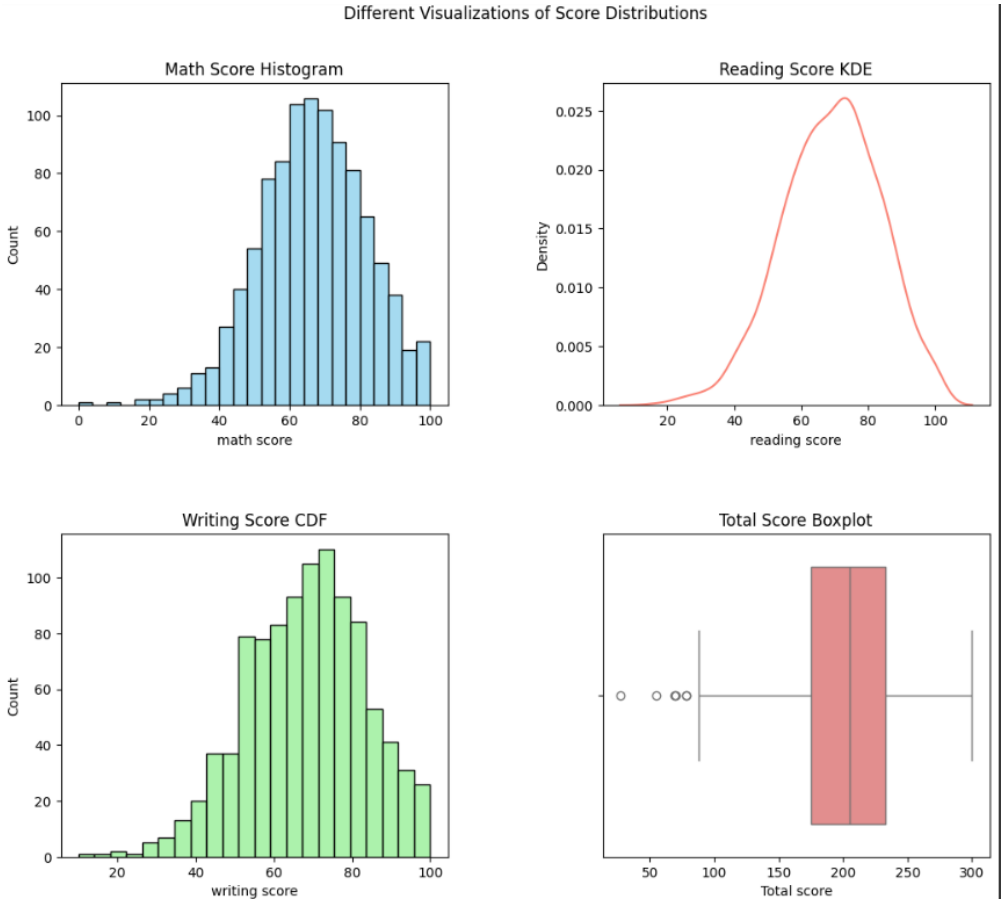
This code utilizes a pie chart to display the distribution of race/ethnicity in the dataset, emphasizing one slice. The percentages and colors enhance visual clarity for quick interpretation.



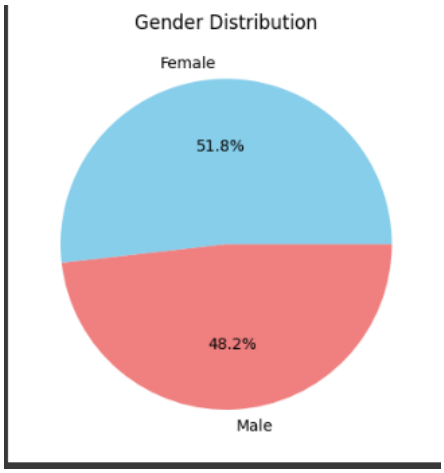
This code employs seaborn and matplotlib to create a 2x2 grid of boxplots, visualizing the distribution of math, reading, writing, and total scores across different race/ethnicity categories in a dataset.



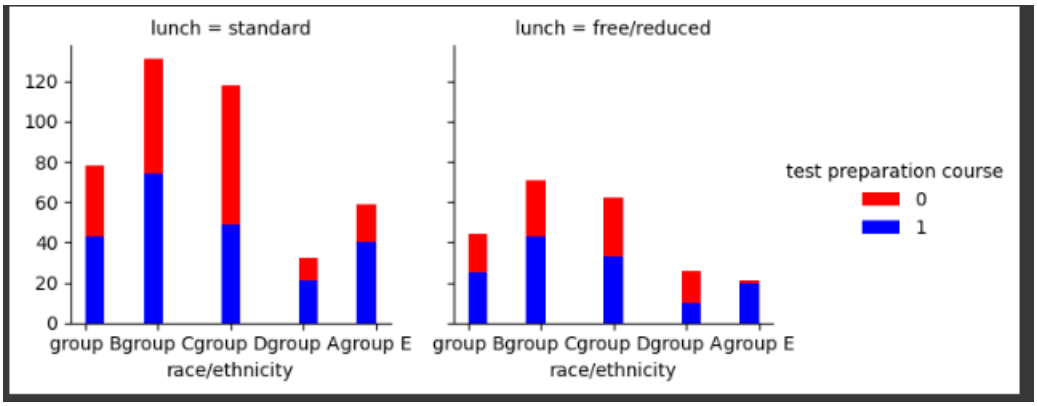
This code creates a 2x2 grid of visualizations for math, reading, and writing scores in a dataset. It includes a histogram, kernel density estimate, cumulative distribution function, and a boxplot, providing diverse perspectives on score distributions.



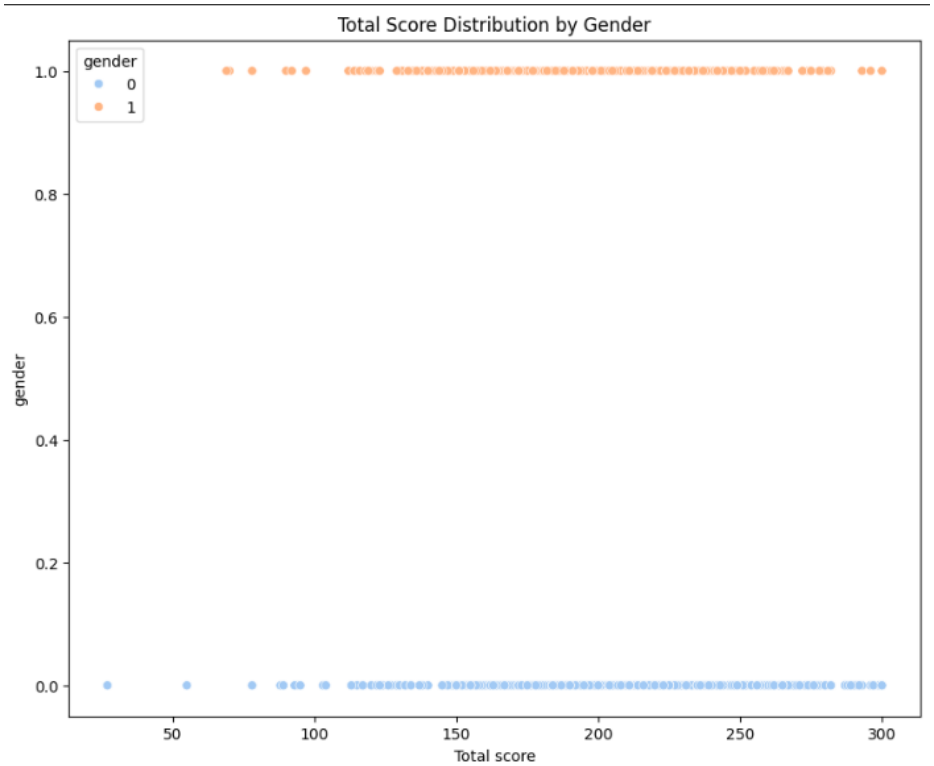
This code generates a pie chart depicting the gender distribution in the dataset. The custom colors enhance visual appeal, with labels and percentages making the distribution clear and accessible.



This code utilizes Seaborn's FacetGrid to create a grid of histograms. It visualizes the distribution of 'race/ethnicity' across different combinations of 'lunch' and 'test preparation course,' with custom colors and a legend for clarity.



This code generates a scatter plot using Seaborn, depicting the distribution of 'Total score' across genders. The 'pastel' color palette enhances visual appeal, providing insight into the relationship between total scores and gender in the dataset.



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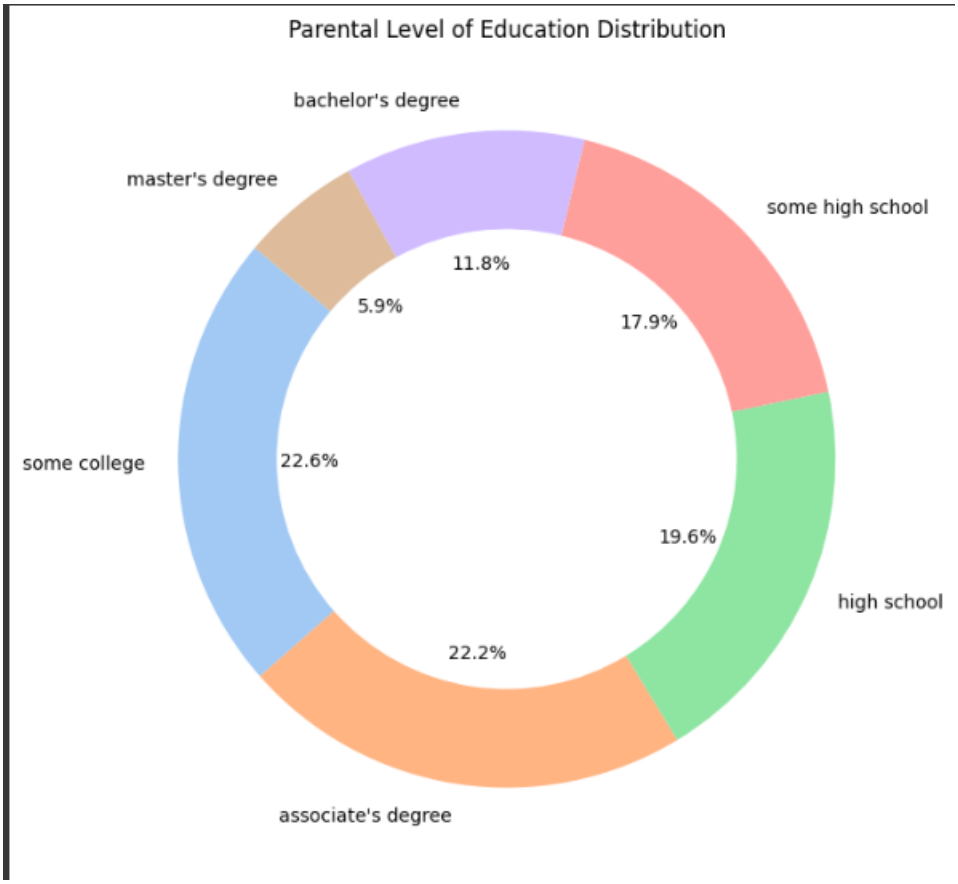
This code generates a donut chart using matplotlib and seaborn, illustrating the distribution of 'parental level of education' in the dataset. The 'pastel' color palette and the wedgeprops parameter create an aesthetically pleasing and informative visualization of educational levels among parents.



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This code uses seaborn and matplotlib to visualize the correlation matrix of math, reading, writing, and total scores in the dataset. The heatmap with annotations provides a clear representation of the relationships between these variables, aiding in understanding score correlations.