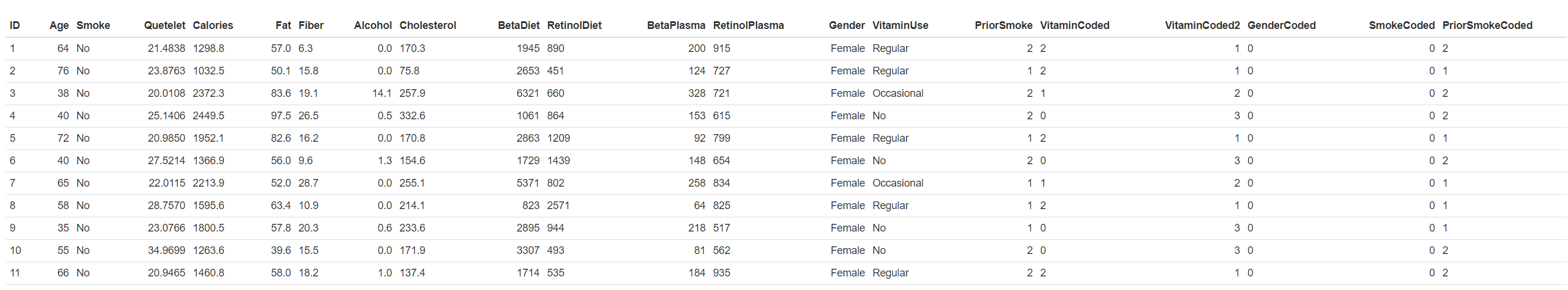
computational Assigment #3

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### Variables

1. For all the categorical variables in the dataset, recode the text-based categories into numerical values that indicate group. For example, for the VITAMIN variable, you could code it so that: 1=regular, 2=occasional, 3=never. Save the categorical variables to the dataset.



1. For the VITAMIN categorical variable, fit a simple linear model that uses the categorical variable to predict the response variable Y=CHOLESTEROL.
2. Report the model, interpret the coefficients, discuss hypothesis test results, goodness of fit statistics, diagnostic graphs, and leverage, influence and Outlier statistics.

Model 1: ŷ = *246.599 – 1.156*β1 – 9.908β2

Recode the VITAMIN categorical variable so that you have a different set of indicator values. For example, you could code it so that: 1=never, 2=occasional, 3=regular. Re-fit.

### Vitamin

### Vitamin

### Vitamin

### Conclusion