

## Scenario

Recall that, in the previous section, you saw examples of data sets where the simple linear regression model fits were essentially the same. However, plotting the data revealed that the model fits were different. One of the examples showed a highly influential observation. Identifying influential observations in multiple linear regression is more complex because you must consider more predictors. The presence of influential observations or outliers can reveal problems with your model. An outlier might be a data entry error that you overlooked in your earlier screening. You can fix or legitimately exclude it if it's uncorrectable. At other times, outliers are data points that are poorly explained by your model, requiring you to revise your initial model.

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*Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression*

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