

### Scenario: Using a Two-Way ANOVA Model

Let's revisit the reading score analysis from previous lessons. Remember that you want to assess the reading skill progress of students in the district in their first year of formal schooling. The **school** data set contains data for a simple random sample of students. The sample was selected from all students in the district. The data includes scores on tests taken by students in the fall, winter, and spring; and student characteristics such as gender, age, and school. To see details about the **school** data set, click the Information button. The problem given by the district school officer is to examine whether the average reading score in spring (**Reading3**) is the same or different among different schools, genders, or combinations of schools and genders. In this problem the dependent variable is the score on the reading test in spring (**Reading3**), which is a continuous variable. The two predictor variables, **School** and **Gender**, are categorical. Hence, to analyze this problem, you can conduct a two-way ANOVA.

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