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Combining Data

In the previous video, you learned about stacking and splitting your data. But what if your data are not stored in the same file, or if you need to add new data to an existing data table?

For example, let's suppose that you have data on rejected parts by order, item number, and reject code for the past four months of the year (September through the end of December). These data are stored in Reject Data.jmp.

Now you receive reject data for January. You would like to add these data to your original data table.

Because the two files have the same basic structure and the same variables, you can concatenate the two data tables. You can either create a new data table with the information from both time periods, or you can add the new data to the bottom of your original table.

The combined data are stored in the file Rejects.jmp.

Let's take a closer look at these data. The data table includes a variable Reject Code. This is a two-digit code. You can see that some of the reject codes are used more often than others, but you'd like to see information about the reason for the reject.

This information is stored in a separate file named RejectCodes.

To add the reject reasons to your rejects data, you can join the two files together. This is possible because both data tables have matching variables with the same reject codes.

When you join the files, you can pull the reason into the original data table.

Now, with a packed bar chart, it is easy to see the reasons for the rejects

When you add the quantity of parts rejected, Material Split really stands out as the biggest reject reason.

Note that instead of pulling the reject reason directly into your original file, you can join the two files virtually. This enables you to access the reject reasons without physically pulling them into your data table. This is particularly useful if you have extremely large files, or if you want to join multiple data tables.

In the upcoming JMP demonstration videos, you learn how to concatenate data and how to join two data tables using a matching column.

To learn more about how to join tables, including using virtual joins and the JMP Query Builder, search for Join in the JMP Help at www.jmp.com/help.

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