## Notes about the Demonstrations and Exercises

In this course, some demonstrations and exercises assume that you performed steps in an earlier demonstration. All demonstrations and exercises use the project that is created SAS Enterprise Miner in the first demonstration in Chapter 1. The following table indicates which demonstrations and exercises use a diagram and/or a data source that is created in an earlier demonstration:

Note: Self-study demonstrations and exercises are not included in the table.

| Chapter | Demo or Exercise | Diagram: Where Created | Data Source: Where Defined |
|---|---|---|---|
| 1 | Demo: Nonlinear Regression | Current demo | Decay: Current demo |
| 1 | Demo: Nonparametric Regression | Current demo | Decay: earlier demo (Chapter 1, Demo: Nonlinear Regression) |
| 1 | Demo: Two Spirals Problem | Current demo | Spirals: Current demo |
| 2 | Demo: Modeling Assorted Target Distributions | Current demo | Fitness: Current demo |
| 2 | Demo: Compositional Data | Current demo | Products: Current demo |
| 2 | Exercise: Constructing a Multilayer Perceptron Using PROC NLIN | Current exercise | Decay: earlier demo (Chapter 1, Demo: Nonlinear Regression) |
| 2 | Demo: Plotting Basis Functions | Current demo | Ecc2d: Current demo |
| 2 | Exercise: Comparing Architectures | Current exercise | Titanic: Current exercise |
| 3 | Demo: Early Stopping | Current demo | Banking: Current demo |
| 3 | Exercise: Network Initialization | Current exercise | Fitness: earlier demo (Chapter 2, Demo: Modeling Assorted Target Distributions) |
| 3 | Demo: Robust Networks | Current demo | Decay: earlier demo (Chapter 1, Demo: Nonlinear Regression) |
| 3 | Exercise: Modeling Count Data | Current exercise | Crab: Current exercise |
| 3 | Demo: Training Tracks | Current demo | Fitness: earlier demo (Chapter 2, Demo: Modeling Assorted Target Distributions) |

| Chapter | Demo or Exercise | Diagram: Where Created | Data Source: Where Defined |
|---|---|---|---|
| 4 | Demo: Linear Perceptrons Using PROC NEURAL | Current demo | Fitness: earlier demo (Chapter 2, Demo: Modeling Assorted Target Distributions) |
| 4 | Demo: Variable Importance | Current demo | Housing: Current demo |
| 4 | Demo: Sensitivity-Based Pruning | earlier demo | Housing: earlier demo (Chapter 4, Demo: Variable Importance) |
| 4 | Exercise: Sensitivity-Based Pruning (Bernoulli Distributed Target) | Current exercise | Banking: earlier demo (Chapter 3, Demo: Early Stopping) |
| 4 | Demo: Sequential Network Construction | Current demo | Housing: earlier demo (Chapter 4, Demo: Variable Importance) |
| 4 | Exercise: Sequential Network Construction | Current exercise | Housing: earlier demo (Chapter 4, Demo: Variable Importance) |
| 4 | Demo: Mini-Batch Gradient Descent | Current demo | Ins: Current demo |
| 5 | Demo: Implementing a Time Delay Neural Network | Current demo | Wine: Current demo |
| 5 | Demo: Interpreting a Neural Network with a Continuous Target | Current demo | Housing: earlier demo (Chapter 4, Demo: Variable Importance) |
| 6 | Demo: Comparing One- and Two-Layer Networks | Current demo | Hill_valley: Current demo |

In a few of the demonstration movies, the instructor performs a modified version of the steps that are documented in the corresponding Demo Steps PDF. For these demonstrations, a note has been added to the top of the Demo Steps to indicate that there are differences between the video and the PDF.