Practice: Exploring SAS Studio

1. Start SAS Studio. The main window of SAS Studio consists of a navigation pane on the left and a work area on the right.

2. Options are available in the banner area to customize your SAS Studio environment.

Option	Description
Search	Search files and folders.
Open	Open files from your files and shortcuts.
New Options	New program, new import data, new query, close all tabs, and maximize view.
SAS Programmer	SAS Studio includes two different perspectives: the SAS Programmer perspective and the Visual Programmer perspective. A perspective is a predetermined set of features that is customized to meet the needs of a specific type of user. This course is about programming in SAS, so you need to make sure that the SAS Programmer perspective is selected on the toolbar at the top of the application. You can find more information about both perspectives in SAS® Studio: *User's Guide*.
More application options	More application options, including edit autoexec file, a view menu, preferences, tool options, background submission status, and reset SAS session.
Help	A Help menu including SAS Studio Help, SAS Product Documentation, and About SAS Studio.

3. On the **Program 1** tab in the work area, type or copy and paste the code below. This is a simple SAS program called a DATA step.

   Note: If you copy and paste the program, you can click the **Format Code** icon on the toolbar to improve the program spacing.

```
data work.shoes;
    set sashelp.shoes;
    NetSales=Sales-Returns;
run;
```

4. Click **Run** or press F3 to submit the code. Examine the LOG and OUTPUT DATA tabs. The RESULTS tab is empty because the program did not create a report.

5. On the CODE tab, add code to compute summary statistics.
   a. At the end of the program, begin by typing **pr**. Notice that a prompt appears with valid keywords and syntax help.
   b. Press Enter to add the word **proc** to the program.
   c. Press the spacebar and type **me**. Press Enter again to add **means** to the program.

      Note: The Autocomplete prompts also include a window with syntax help and links to documentation and examples.

6. Press the spacebar, use the prompt to select **data=**, and then type **work.shoes**.
   a. Press the spacebar and notice that the prompt lists all valid options.

   b. Type or select the options in the window to complete the following statement:

   ```
   proc means data=work.shoes mean sum maxdec=2;
   ```

   Note: If you prefer to disable autocomplete, click **More Application options**, and then **Preferences** > **Editor**. Clear the **Enable autocomplete** check box and click **Save.**

7. Complete the program by adding the following VAR, CLASS, and RUN statements:

   ```
   proc means data=work.shoes mean sum maxdec=2;
       var NetSales;
       class region;
   run;
   ```

8. Highlight the code from PROC MEANS through the RUN statement and click **Run** or press F3 to run only the selected portion. Confirm the results.

9. To view multiple tabs at the same time, click the **RESULTS** tab and drag it to the right side of the work area until a highlighted region appears. To return to a single window, drag the **RESULTS** tab back to the main tab area.

10. On the RESULTS tab, click the **HTML**, **PDF**, or **Word** icon to open the results in the corresponding file format. You are prompted to open the file in the browser.

    Note: Additional options for the output formats are available. Click the **More application options** icon on the banner, and then select **Preferences** > **Results** to view the options.

11. To save the program, return to the CODE tab and click the **Save as** toolbar button.
    a. Navigate to the **output** folder in the course files.
    b. Enter **shoesprogram** in the **Name** field and click **Save**.