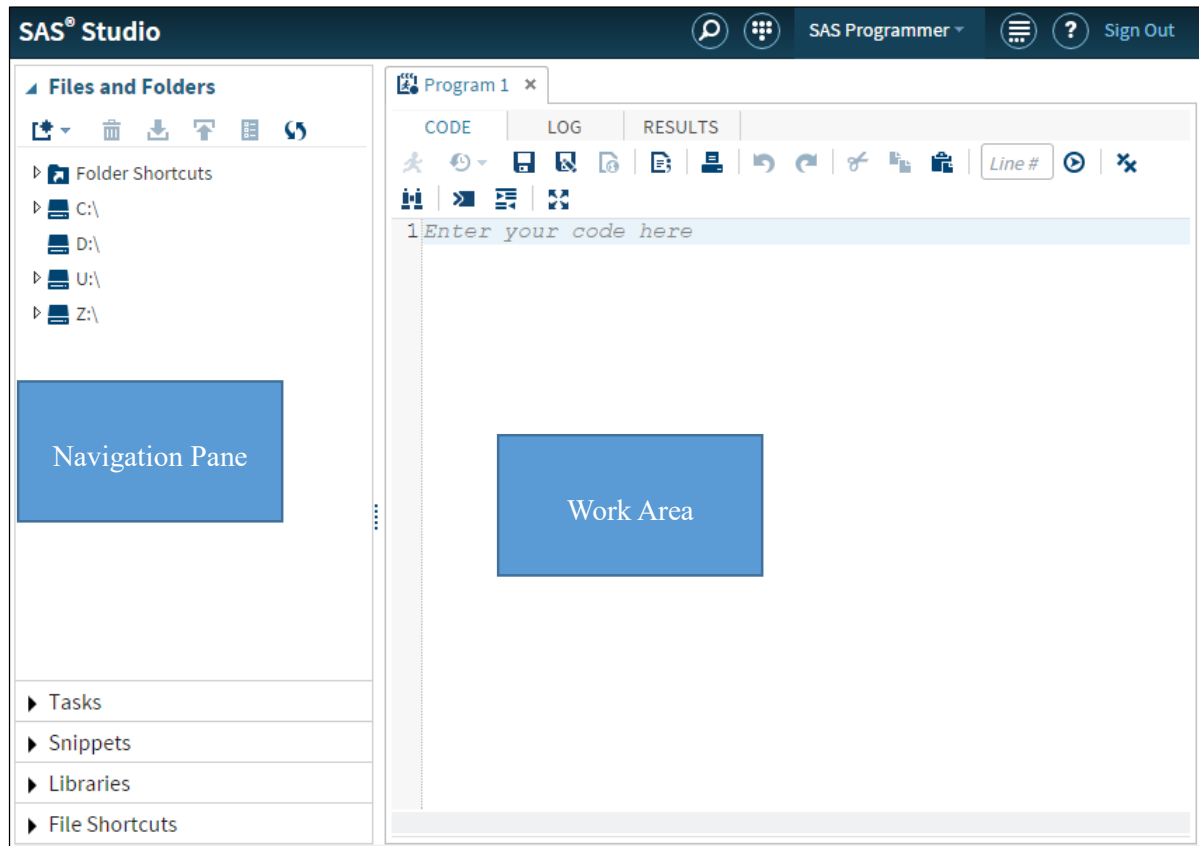# Working in SAS Studio

1. Open your SAS Studio session to view the interface.

The SAS Studio interface is separated into the Navigation pane on the left and the Work area on the right. The Work area displays your programs with tabs for Code, Log, and Results. The Navigation pane provides easy access to your folders and libraries that contain your permanent and temporary data sets.

The Files and Folders tab is displayed by default and gives the user quick access to load data sets and SAS programs.

2. Click the **Libraries** tab in the Navigation pane and select **My Libraries**.
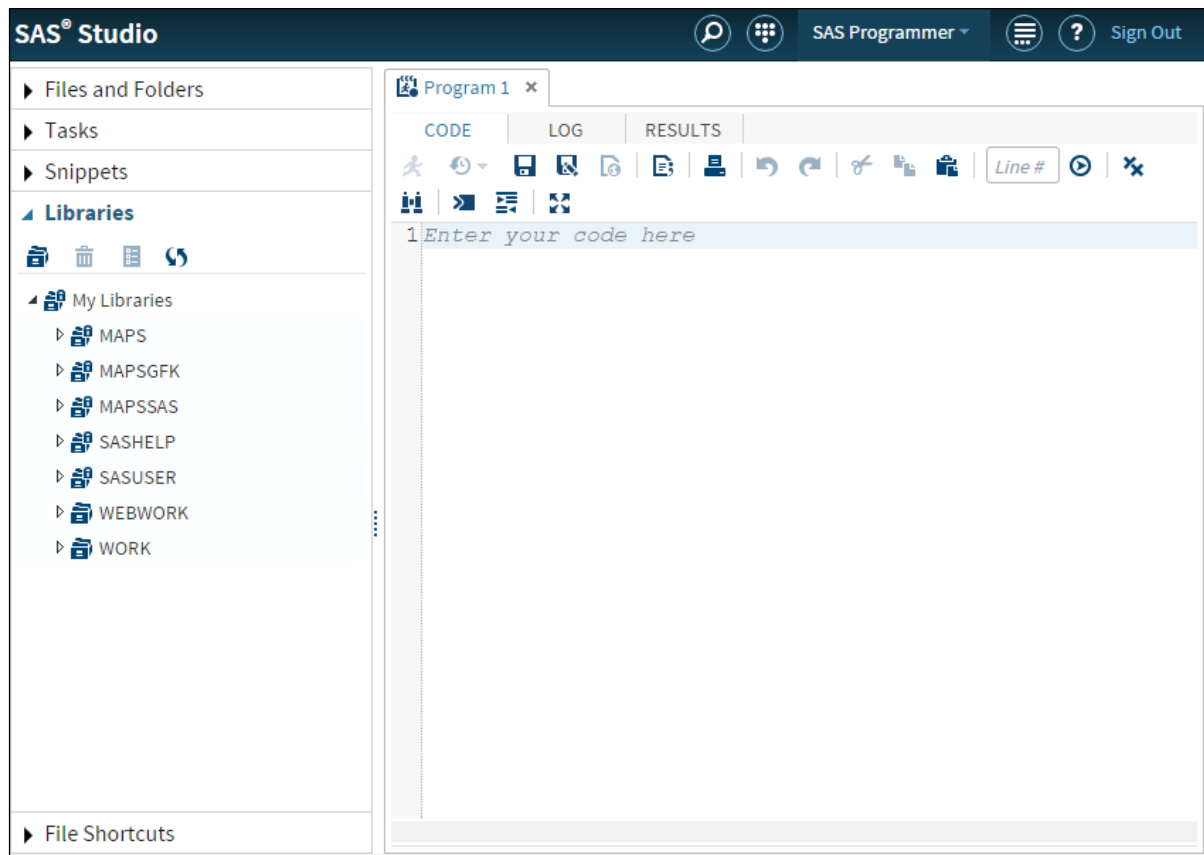
The libraries **MAPS** through **WEBWORK** are permanent libraries. The data displayed in each library is a permanent data set, which users can use at their convenience. The **Work** library is a temporary library. Any data saved to the **Work** library by the user is deleted when the user closes the SAS session. In a later demonstration, you see how to save a new data set to the **Work** library and create a new permanent library. A new permanent library enables the user to load external data a single time and update or use the data table each new session. This heavily reduces the load time and cleaning time of your data because it is done only once.

3. Open the **Sashelp** library and navigate to the **cars** data set. Double-click the data set to open it in the Table Viewer in the Work area.

The **cars** data set contains 428 total rows of data and 15 columns or variables.

You can use the arrows to navigate between pages or the scroll bar at the bottom of the data table to change your view of the data.

In the Columns area of the Table Viewer, notice that all columns are selected by default. Simply clear the check box from a column to remove the column from the viewer.

4. Clear the **Select all** check box and then select **Make**, **Model**, **Type**, **Origin**, **MSRP**, and **Invoice**.

5. To customize the view of the data table, select the arrow next to **Columns** to hide the columns area and then select the **Maximize View** icon.
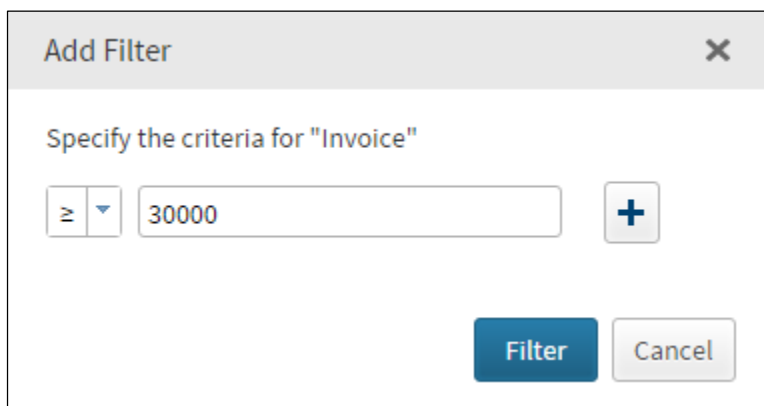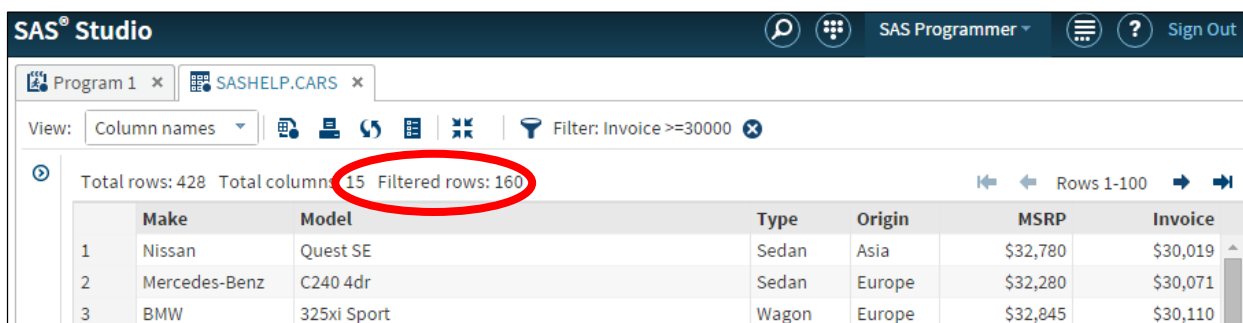

6. You can right-click a column heading to filter and sort the data table by that column. Right-click the **Invoice** column and select **Add Filter**. Notice that the other options are Sort Ascending, Sort Descending, and Sort by Data Order.
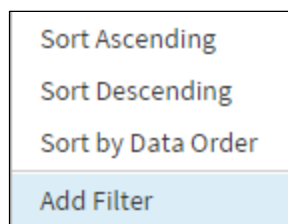
7. Add a filter to select only the rows with Invoice values greater than or equal to $30,000. Use the drop-down menu to change the filter in the Add Filter window. Add the filter value in the text box. Then click **Filter**.

At the top of the table, you see that the number of filtered rows is 160.

8. As you select options and customize the table, SAS Studio generates SAS code that you can use. To view the query code, click the **Display Query** button on the toolbar.

```
PROC SQL;
   CREATE TABLE work.query AS
      SELECT Make , Model , 'Type'n , Origin , MSRP , Invoice
         FROM sashelp.cars WHERE  Invoice >=30000 ORDER BY Invoice;
RUN;
QUIT;

PROC DATASETS NOLIST NODETAILS;
   CONTENTS DATA=work.query OUT=work.details;
RUN;

PROC PRINT DATA=work.details;
RUN;
```

A new Program tab is created with the code that is used to create the view of the table. This code first creates a new data table in the **Work** library and then prints the data table. You can save this code for use later with the Save button on the toolbar.

9. Close the Query code. Exit the maximized view, and expand the **Columns** pane to get back to the default table view. You can clear the table filter by selecting **Clear Filter** on the Tools table.