Restructuring a Table Using PROC TRANSPOSE: Wide to Narrow

The **pg2.np_2017camping** table contains public use statistics for camping in 2017 from the National Park Service. Convert the data from a wide table to a narrow table.

- Open p207p04.sas from the practices folder. Submit the PROC PRINT step to display the first five rows of pg2.np_2017camping. Notice that the table contains three columns (Tent, RV, and Backcountry) with visitor counts for each value of ParkName. In addition, notice that the table is sorted by ParkName.
- 2. Modify the PROC TRANSPOSE step.
 - Add the OUT= option to create a table named work.camping2017_t.
 - Add the BY statement to group the data by **ParkName**. This creates one row in the output table for each unique value of **ParkName**.
 - Add the VAR statement to transpose the **Tent** and **RV** columns.
 - Submit the PROC TRANSPOSE step and examine the output data.

3. How many rows and columns are in the camping2017_t table? What are the column names?

The **camping2017_t** table has 254 rows and three columns. The column names are **ParkName**, **_NAME_**, and **COL1**.

- 4. Modify the program.
 - Use the NAME= option to specify **Location** as the name for the column that contains the names of the columns from the input table.
 - Use the RENAME= data set option after the output table to rename **COL1** as **Count**.
 - Submit the PROC TRANSPOSE step and verify the results.

5. What are the column names in the camping2017_t table?

The column names are ParkName, Location, and Count.