Performing a One-to-Many Merge

The **pg2.np_2016traffic** table contains monthly traffic statistics from the National Park Service for parks. Create a table that contains the monthly traffic statistics from the **pg2.np_2016traffic** table and adds a column for the park name. Park name values can be found in the matching **pg2.np_codelookup** table.

1. Open **p205p03.sas** from the **practices** folder. Submit the two PROC SORT steps. Determine the name of the common column in the sorted tables.

   The common column is **ParkCode**.

2. Modify the program.

   - Modify the second PROC SORT step to use the RENAME= option after the **pg2.np_2016traffic** table to rename **Code** to **ParkCode**. **Note:** You could also rename the column in the DATA step after the table in the MERGE statement.
   - Modify the BY statement to sort by the new column name.
   - Write a DATA step to merge the sorted tables by the common column to create a new table, **work.trafficstats**.
   - Drop the **Name_Code** column from the output table.
   - Submit the program and examine the **work.trafficstats** table.

```
proc sort data=pg2.np_codelookup out=work.codesort;
    by ParkCode;
run;

proc sort data=pg2.np_2016traffic(rename=(Code=ParkCode))
          out=work.traf2016Sort;
    by ParkCode month;
run;

data work.trafficstats;
    merge work.traf2016Sort
          work.codesort;
    by ParkCode;
    drop Name_Code;
run;
```

3. How many rows are in the **trafficstats** table, and what is the value of **ParkCode** in row 1?

   The **trafficstats** table has 2980 rows, and the **ParkCode** value is *ABLI* in row 1.