Creating a Custom Format from a Table

The **pg2.np_monthlytraffic** table contains monthly traffic counts at locations in national parks. Create a format that categorizes park codes into their type (for example, National Park, National Seashore, and so on). The **pg2.np_codelookup** table contains park codes and the associated park types.

1. Open **p204p04.sas** from the **practices** folder. Submit the PROC MEANS step and review the output. Notice that the traffic statistics are listed by a four-letter park code.

2. Open the **pg2.np_codelookup** table. Notice that **ParkCode** contains the four-letter park code and **Type** contains the type of park.

3. Modify the program.

    - In the DATA step, do the following:
        - Add a RENAME= data set option to the SET statement to rename the **ParkCode** column to **Start** and the **Type** column to **Label**.
        - Add a RETAIN statement before the SET statement to create the **FmtName** column with a value of *$TypeFmt* (without a period at the end).
    - In the PROC FORMAT statement, add a CNTLIN= option to build a format from the **type_lookup** table.
    - In the PROC MEANS step, add a FORMAT statement so that the $TypeFmt format is applied to the **ParkCode** column.
    - Submit the program and examine the results. Verify that the data is grouped by park types.

```
data type_lookup;
    retain FmtName '$TypeFmt';
    set pg2.np_codeLookup(rename=(ParkCode=Start Type=Label));
    keep Start Label FmtName;
run;

proc format cntlin=type_lookup;
run;

title 'Traffic Statistics';
proc means data=pg2.np_monthlyTraffic maxdec=0 mean sum nonobs;
    var Count;
    class ParkCode Month;
    label ParkCode='Name';
    format ParkCode $TypeFmt.;
run;
title;
```