Level 2 Practice: Using Procedures to Validate Data

The **pg1.np_summary** table contains information about US national parks, monuments, preserves, rivers, and seashores. Valid values and descriptions for the columns **Reg** and **Type** are as follows:

Reg	Description	Туре	Description
Α	Alaska	NM	National Monument
IM	Intermountain	NP	National Park
MW	Midwest	NS	National Seashore
NC	National Capital	PRE	National Preserve
NE	Northeast	RVR	National River
PW	Pacific West		
SE	Southeast		

- 1. Create a new program.
 - Write a PROC FREQ step to produce frequency tables for the **Reg** and **Type** columns in the **pg1.np_summary** table.
 - Submit the step and look for invalid values.

```
proc freq data=pg1.np_summary;
    tables Reg Type;
run;
```

2. What invalid values exist for Reg?

No invalid values exist for Reg.

3. What invalid values exist for Type?

NPRE, PRESERVE, and RIVERWAYS are invalid values for Type.

4. Write a PROC UNIVARIATE step to generate statistics for the **Acres** column in the **pg1.np_summary** table. Submit the step.

```
proc univariate data=pg1.np_summary;
    var Acres;
run;
```

5. What are the observation numbers for the smallest park and the largest park?

Smallest: Observation 78 Largest: Observation 6 6. View the **pg1.np_summary** table to identify the name and size of the smallest and largest parks.

Smallest: African Burial Ground Monument, .35 acres Largest: Noatak National Preserve, 6,587,071.39 acres