Challenge Practice: Creating a SAS Table Using Macro Variables

The **np_species** table includes one row for each species that is found in each national park.

1. Write a new program that creates a temporary table named **mammal** that includes only the mammals from the **pg1.np_species** table. Do not include **Abundance**, **Seasonality**, or **Conservation_Status** in the output table.

```
data mammal;
    set pg1.np_species;
    where Category="Mammal";
    drop Abundance Seasonality Conservation_Status;
run;
```

2. Use PROC FREQ to determine how many mammal species there are for each unique value of **Record_Status**. Submit the program.

```
proc freq data=mammal;
    tables Record_Status;
run;
```

3. What percentage of mammal species have a **Record_Status** value of *Approved*?

90.22%

4. Modify the program to use a macro variable in place of the value *Mammal* so you can analyze other values of **Category**. Change the macro variable value to *Amphibian* and run the program.

```
%let cat=Amphibian;

data &cat;
    set pg1.np_species;
    where Category="&cat";
    drop Abundance Seasonality Conservation_Status;
run;

proc freq data=&cat;
    tables Record_Status;
run;
```

5. What is the overall frequency of *Amphibian* species and how many are approved?

The overall frequency is 743, with 619 approved.