Creating One-Way Frequency Reports

The **pg1.np_species** table provides a detailed species list for selected national parks. Use this table to analyze the categories of reported species.

1. Write a PROC FREQ step to analyze rows from **pg1.np_species**.

   - Use the TABLES statement to generate a frequency table for **Category**.
   - Use the NOCUM option to suppress the cumulative columns.
   - Use the ORDER=FREQ option in the PROC FREQ statement to sort the results by descending frequency.
   - Use **Categories of Reported Species** as the report title.
   - Submit the program and review the results.

```
title1 "Categories of Reported Species";
proc freq data=pg1.np_species order=freq;
    tables Category / nocum;
run;
```

2. What percent of the species are *Fungi*?

   5.20%

3. Modify the PROC FREQ step to make the following changes:

   - Include only the rows where **Species_ID** starts with *EVER* and **Category** is not *Vascular Plant*.
     Note: *EVER* represents Everglades National Park.
   - Turn on ODS Graphics before the PROC FREQ step and turn off the procedure title.
   - Add the PLOTS=FREQPLOT option to display frequency plots.
   - Add **in the Everglades** as a second title.
   - Submit the program and review the results.

```
ods graphics on;
ods noproctitle;
title1 "Categories of Reported Species";
title2 "in the Everglades";
proc freq data=pg1.np_species order=freq;
    tables Category / nocum plots=freqplot;
    where Species_ID like "EVER%" and
          Category ne "Vascular Plant";
run;
title;
```

4. Which **Category** value has the smallest frequency?

   Amphibian