

Level 2 Practice: Using Macro Variables to Subset Data in Procedures

Practice Quiz. • 20 min. • 2 total points available. 2 total points

1. If necessary, [start SAS Studio](#) before you begin. If you restarted your SAS session, you must run the `libname.sas` program created in Activity 2.04.

1 / 1 point

1. Open a new program window and write a PROC FREQ step to analyze rows from `pg1.np_species`. Generate frequency tables for **Abundance** and **Conservation_Status**.
2. In the PROC FREQ output, include only rows where **Species_ID** starts with *YOSE* (Yosemite National Park) and **Category** equals *Mammal*.
3. Write a PROC PRINT step to list the same subset of rows from `pg1.np_species`.
4. Include **Species_ID**, **Category**, **Scientific_Name**, and **Common_Names** in the report.
5. Run the program.

How many rows meet the two specified conditions?

16

✓ Correct

```
proc freq data=pg1.np_species;
  tables Abundance Conservation_Status;
  where Species_ID like "YOSE%" and
        Category="Mammal";
run;

proc print data=pg1.np_species;
  var Species_ID Category Scientific_Name Common_Names;
  where Species_ID like "YOSE%" and
        Category="Mammal";
run;
```

2. 1. Create a macro variable named **ParkCode** to store *YOSE*, and another macro variable named **SpeciesCat** to store *Mammal*.
2. Modify the code to reference the macro variables.
3. Submit the program and confirm that the same results are generated.
4. Change the values of the macro variables to *ZION* (Zion National Park) and *Bird*. **Note:** The macro variable values are case sensitive when they are used in a WHERE statement.
5. Submit the program.

1 / 1 point

How many rows meet the two specified conditions?

46

✓ Correct

```
1 %let ParkCode=ZION;
2 %let SpeciesCat=Bird;
3
4 proc freq data=pg1.np_species;
5   tables Abundance Conservation_Status;
6   where Species_ID like "&ParkCode%" and
7         Category="&SpeciesCat";
8 run;
9
10 proc print data=pg1.np_species;
11   var Species_ID Category Scientific_Name Common_Names;
12   where Species_ID like "&ParkCode%" and
13         Category="&SpeciesCat";
14 run;
```