Level 2 Practice: Subsetting by Multiple Conditions and Creating a Sorted SAS Table

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

- 1. Create a new program.
 - Write a DATA step to read the pg1.np_species table and create a new table named fox.
 Note: If you are using SAS Studio, try creating fox as a permanent table in the EPG194/output folder.
 - Include only the rows where Category is Mammal and Common_Names includes Fox in any case.
 - Exclude the Category, Record_Status, Occurrence, and Nativeness columns.
 - Submit the program.

```
* if you are creating a permanent table, you must submit a LIBNAME statement and then reference out.fox;
* libname out "path-to-EPG194/output";

data fox;
   set pgl.np_species;
   where Category='Mammal' and upcase(Common_Names) like '%FOX%';
   drop Category Record_Status Occurrence Nativeness;
run;
```

2. Notice that Fox Squirrels are included in the output table. Add a condition in the WHERE statement to exclude rows that include Squirrel. Submit the program and verify the results.

```
data fox;
    set pg1.np_species;
    where Category='Mammal' and upcase(Common_Names) like '%FOX%'
        and upcase(Common_Names) not like '%SQUIRREL%';
    drop Category Record_Status Occurrence Nativeness;
run;
```

3. Sort the fox table by Common_Names.

```
data fox;
    set pgl.np_species;
    where Category='Mammal' and upcase(Common_Names) like '%FOX%'
        and upcase(Common_Names) not like '%SQUIRREL%';
        drop Category Record_Status Occurrence Nativeness;
run;

proc sort data=fox;
    by Common_Names;
run;
```

4. What is the value of **Common_Names** in row one?

Arctic Fox