```
*******************
 1
 2
      Creating Custom Formats from Tables
   ***************
 3
 4
   *
      Syntax
 5
   *
 6
   *
        CNTLIN table must include:
 7
            FmtName: name of format
 8
            Start: values to format
 9
            Label: labels to apply
10
11
        PROC FORMAT CNTLIN=input-table FMTLIB;
12
           SELECT format-names;
13
        RUN;
14
15
16
17
      Demo
18
        1) Examine the DATA step that creates the SBDATA table from
19
           the PG2.STORM SUBBASINCODES table and the PROC FORMAT step
20
           that imports the SBDATA table. Highlight the demo program
21
           and run the selected code. Verify that the new table
22
           contains three required columns to build a format. View the *;
23
           log and confirm the $SBFMT format was created.
24
        2) Open the PG2.STORM CATEGORIES table. This table defines a
25
           range of maximum wind speeds (Low and High) and assigns a
                                                                       *;
26
           storm Category.
27
        3) Modify the second DATA and PROC FORMAT steps to create a
28
           table named CATDATA that will include the following
29
           columns. Highlight the DATA and PROC FORMAT steps and run
30
           the selected code. View the log and confirm the CATFMT
31
32
           format was created.
33
               Column in PG2.STORM CATEGORIES => Column in CATDATA
34
                   <none> => FmtName (assign CATFMT for each row
35
                   Low => Start
36
                   High => End
37
                   Category => Label
38
        4) Add a FORMAT statement in the PROC FREQ step to format
39
           Sub basin with the $SBFMT. format and Wind with the CATFMT.
40
           format. Highlight the TITLE statements and PROC FREQ step
41
           and run the selected code.
42
43
44
   /*Create the $SBFMT format for subbasin codes*/
45
   data sbdata;
46
       retain FmtName '$sbfmt';
47
       set pg2.storm subbasincodes(rename=(Sub Basin=Start
48
                                           SubBasin_Name=Label));
49
       keep Start Label FmtName;
50
   run;
51
52
   proc format cntlin=sbdata;
53
   run;
54
55
   /*Complete the steps to create the CATFMT format from the storm_categories table*/
```

Code: p204d02.sas

```
5/3/2020
   57 data catdata;
   58
          retain fmtName 'catfmt';
          set pg2.storm_categories(rename=(Low=Start High=End Category=Label));
   59
   60
          keep FmtName Start End Label;
   61
      run;
   62
   63
      proc format cntlin=catdata;
   64
      run;
   65
   66
      title "Frequency of Wind Measurements for Storm Categories by SubBasin";
   67
      title2 "2016 Storms";
   68
      proc freq data=pg2.storm_detail;
   69
          /*include only Category 1-5 2016 storms with known subbasin*/
   70
          where Wind>=64 and Season=2016 and Sub basin not in('MM', 'NA');
   71
          tables Sub_basin*Wind / nocol norow nopercent;
   72
          *Add a FORMAT statement;
   73
          format Sub basin $sbfmt. Wind catfmt.;
   74
      run;
   75
      title;
   76
   77
   78
   79
   80
```