```
 1  ***********************************************************;
 2  *  Creating a Split Table with PROC TRANSPOSE             *;
 3  ***********************************************************;
 4  *   Syntax                                                *;
 5  *                                                         *;
 6  *     PROC TRANSPOSE DATA=input-table OUT=output-table    *;
 7  *                   <PREFIX=column> <NAME=column>;        *;
 8  *         <VAR columns(s)>;                                *;
 9  *         <ID column>;                                    *;
10  *         <BY column(s)>;                                 *;
11  *     RUN;                                                *;
12  ***********************************************************;
13
14  ***********************************************************;
15  *   Demo                                                  *;
16  *   1) Run the PROC TRANSPOSE step and examine the error  *;
17  *      in the log. The step fails because the values of ID *;
18  *      are not unique.                                    *;
19  *   2) Add a BY statement to transpose the values within  *;
20  *      the groups of Season, Basin, and Name. Run the     *;
21  *      program.                                           *;
22  *   3) Notice that the unique values of WindRank (1, 2, 3, *;
23  *      and 4) are assigned as the column names for the    *;
24  *      transposed values of WindMPH.                      *;
25  *   4) To give the transposed columns standard names, add  *;
26  *      the PREFIX=Wind option in the PROC TRANSPOSE       *;
27  *      statement. To rename the _name_ column that        *;
28  *      identifies the source column for the transposed    *;
29  *      values, add the NAME=WindSource option as well. Run *;
30  *      the step.                                          *;
31  *   5) Delete the NAME= option and add the DROP= data set  *;
32  *      option on the output table to drop the _name_      *;
33  *      column. Run the step.                              *;
34  ***********************************************************;
35
36
37  proc transpose data=pg2.storm_top4_narrow out=wind_rotate(drop=_Name_)
38      prefix=Wind ;
39      var WindMPH;
40      id WindRank;
41      by Season Basin Name;
42  run;
```