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1 *****;
2 *   Reading and Filtering Data with SQL   *;
3 *****;
4 *   Syntax and Example                   *;
5 *                                       *;
6 *   PROC SQL;                           *;
7 *       SELECT col-name, col-name FORMAT=fmt *;
8 *       FROM input-table                 *;
9 *       WHERE expression                  *;
10 *       ORDER BY col-name <DESC>;        *;
11 *   QUIT;                               *;
12 *                                       *;
13 *   New column in SELECT list:           *;
14 *   expression AS col-name              *;
15 *****;
16
17
18 proc sql;
19 select Name, Age, Height*2.54 as HeightCM format 5.1,
20        Birthdate format=date9.
21        from pg1.class_birthdate
22        where age > 14
23        order by Height desc;
24 quit;
25
26 *****;
27 *   Demo                                *;
28 *   1) Add a SELECT statement to retrieve all columns *;
29 *       from PG1.STORM_FINAL. Highlight the step and run *;
30 *       the selected code. Examine the log and results. *;
31 *   2) Modify the query to retrieve only the Season, *;
32 *       Name, StartDate, and MaxWindMPH columns. Format *;
33 *       StartDate with MMDDYY10. Highlight the step and *;
34 *       run the selected code. *;
35 *   3) Modify Name in the SELECT clause to convert the *;
36 *       values to proper case. *;
37 *   4) Add a WHERE clause to include storms during or *;
38 *       after the 2000 season with MaxWindMPH greater *;
39 *       than 156. *;
40 *   5) Add an ORDER BY clause to arrange rows by *;
41 *       descending MaxWindMPH, and then by Name. *;
42 *   6) Add TITLE statements to describe the report. *;
43 *       Highlight the step and run the selected code. *;
44 *****;
45 title1 "International Wind Status";
46
47 proc sql;
48 *Add SELECT statement;
49 select Season, propcase(Name) as Name, StartDate format=mmddyy10.,MaxWindMPH from pg1.storm_final
50        where MaxWindMPH > 156 And Season > 2000
51        order by MaxWindMPH desc ,Name;
52
53 quit;

```