

```

1 *****;
2 *   Merging Tables                                     *;
3 *****;
4 *   Syntax and Example                                 *;
5 *                                                     *;
6 *   PROC SORT DATA=input-table OUT=output-table;    *;
7 *       BY BY-variable;                               *;
8 *   RUN;                                              *;
9 *   DATA output-table;                              *;
10 *       MERGE input-table1 input-table2 ...;         *;
11 *       BY BY-variable;                              *;
12 *   RUN;                                              *;
13 *****;
14
15 /*One to one Merge*/
16 /*Both tables are already sorted*/
17 data class2;
18     merge sashelp.class pg2.class_teachers;
19     by name;
20 run;
21
22 *****;
23 *   Demo                                             *;
24 *   1) Highlight the two PROC SORT steps and run the *;
25 *       selected code. Examine the sorted tables, including *;
26 *       the number of rows in each. Notice that both tables *;
27 *       include a column representing basin codes. However, *;
28 *       the column is named Basin in the STORM_SORT table *;
29 *       and BasinCode in the BASINCODES_SORT table.      *;
30 *   2) To combine the BasinName column with the columns in *;
31 *       the storm_summary table, the tables need to be    *;
32 *       merged. Complete the MERGE statement. Use the    *;
33 *       RENAME= data set option to rename the BasinCode *;
34 *       column as Basin in the BASINCODES_SORT table. Add a *;
35 *       BY statement to combine the sorted tables by Basin. *;
36 *   3) Run the program and examine the STORM_SUMMARY2    *;
37 *       table. Notice that the BasinName values have been *;
38 *       matched with each of the Basin code values.      *;
39 *   4) Scroll to the end of the STORM_SUMMARY2 table.    *;
40 *       Notice that when the value of Basin is lowercase *;
41 *       na, the values for BasinName are missing. This is *;
42 *       because lowercase na occurs only in the STORM_SORT *;
43 *       table and not in BASINCODES_SORT.                *;
44 *   *****;
45
46
47 proc sort data=pg2.storm_summary out=storm_sort;
48     by Basin;
49 run;
50
51 proc sort data=pg2.storm_basincodes out=basincodes_sort;
52

```

```
53     by BasinCode;
54 run;
55
56 data storm_summary2;
57     merge storm_sort basincodes_sort(rename=(BasinCode=Basin));
58     by Basin;
-- --
```