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1 *****;
2 * LESSON 3, PRACTICE 3 *;
3 * a) The program contains a PROC SORT step that creates *;
4 * the WINTER2015_2016 table. This table contains rows *;
5 * with dates with some snowfall between October 1, *;
6 * 2015, and April 1, 2016, sorted by Code and Date. *;
7 * Only the Name, Code, Date, and Snow columns are *;
8 * kept. *;
9 * b) Modify the DATA step to create the SNOWFORECAST *;
10 * table based on the following specifications: *;
11 * 1) Process the data in groups by Code. *;
12 * 2) For the first row within each Code group, create *;
13 * a new column named FirstSnow that is the date of *;
14 * the first snowfall for that code. *;
15 * 3) For the last row within each Code group, do the *;
16 * following: *;
17 * a) Create a new column named LastSnow that is *;
18 * the date of the first snowfall for that code. *;
19 * b) Create a new column named WinterLengthWeeks *;
20 * that counts the number of full weeks between *;
21 * the FirstSnow and LastSnow dates. *;
22 * c) Create a new column named ProjectedFirstSnow *;
23 * that is the same day of the first snowfall *;
24 * for the next year. *;
25 * d) Output the row to the new table. *;
26 * 4) Apply the DATE7. format to the FirstSnow, *;
27 * LastSnow, and ProjectedFirstSnow columns and *;
28 * drop the Date and Snow columns. *;
29 * *****;
30 *****;
31
32 proc sort data=pg2.np_weather(keep=Name Code Date Snow)
33 out=winter2015_2016;
34 where date between '01Oct15'd and '01Jun16'd and Snow > 0;
35 by Code Date;
36 run;
37
38 data snowforecast;
39 set winter2015_2016;
40
41 run;

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