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1 *****;
2 * Using Numeric Functions *;
3 *****;
4 * Syntax *;
5 * *;
6 * RAND ('distribution', parameter1, ...parameterk) *;
7 * LARGEST (k, value-1 <, value-2 ...>) *;
8 * ROUND (number <,rounding-unit>) *;
9 *****;
10
11 *****;
12 * Demo *;
13 * 1) Copy and paste the Quiz1st assignment statement *;
14 * twice and modify the statements to create columns *;
15 * named Quiz2nd and Quiz3rd. *;
16 * 2) Create a new column named Top3Avg that uses the *;
17 * MEAN function with the top three quiz scores as the *;
18 * arguments. *;
19 * 3) Add Name in the DROP statement. *;
20 * 4) Before the SET statement, create a new column named *;
21 * StudentID. Use the RAND function with 'INTEGER' as *;
22 * the first argument. This generates random integers *;
23 * between the values specified in the second and *;
24 * third arguments. To create a four-digit number, use *;
25 * 1000 as the lower limit and 9999 as the upper *;
26 * limit. Highlight the DATA step and run the selected *;
27 * code. *;
28 * 5) Modify the Top3Avg assignment statement to use the *;
29 * ROUND function to round the values returned by the *;
30 * MEAN function to the nearest integer. Highlight the *;
31 * DATA step and run the selected code. *;
32 * 6) Add a second argument in the ROUND function to *;
33 * round values to the nearest .1. Highlight the DATA *;
34 * step and run the selected code. *;
35 *****;
36
37 .....
38 data quiz_analysis;
39     StudentID =rand("Integer",1000,9999);
40     set pg2.class_quiz;
41     drop Quiz1-Quiz5 Name;
42     Quiz1st=largest(1, of Quiz1-Quiz5);
43     Quiz2nd=largest(2, of Quiz1-Quiz5);
44     Quiz3rd=largest(3, of Quiz1-Quiz5);
45     Top3Avg=round(mean(Quiz1st,Quiz2nd,Quiz3rd),0.1);
46 run;
47

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