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1 *****;
2 * Using Conditional DO Loops *;
3 *****;
4 * Syntax *;
5 * *;
6 * DATA output-table; *;
7 * SET input-table; *;
8 * . . . *;
9 * DO UNTIL | WHILE (expression); *;
10 * . . . repetitive code . . . *;
11 * OUTPUT; *;
12 * END; *;
13 * DO index-column = start TO stop <BY increment> *;
14 * UNTIL | WHILE (expression); *;
15 * . . . repetitive code . . . *;
16 * OUTPUT; *;
17 * END; *;
18 * . . . *;
19 * OUTPUT; *;
20 * RUN; *;
21 *****;
22
23 *****;
24
25 * Demo *;
26 * 1) Open the PG2.SAVINGS2 table. This table contains a *;
27 * column named Savings that is the current value of *;
28 * each person's savings account. Notice that Linda's *;
29 * value is already greater than 3000. *;
30 * 2) Notice the DO UNTIL expression is Savings equal to *;
31 * 3000. Run the program. Because Savings is never *;
32 * equal to 3000, the program is in an infinite loop. *;
33 * Stop the infinite DO loop from running. *;
34 * * In SAS Enterprise Guide, click the Stop toolbar *;
35 * button on the Program tab. *;
36 * * In SAS Studio, click Cancel in the Running pop-up *;
37 * window. *;
38 * 3) Make the following modifications to the DATA step. *;
39 * a) Replace the equal sign with a greater than *;
40 * symbol. *;
41 * b) Add a sum statement inside the DO loop to create *;
42 * a column named Month that will increment by 1 *;
43 * for each loop. *;
44 * c) Before the DO loop add an assignment statement *;
45 * to reset Month to 0 each time a new row is read *;
46 * from the input table. *;
47 * 4) Run the program. Notice that even though Linda *;
48 * began with 3600 for Savings, the DO LOOP executed *;
49 * once. *;
50 * 5) Change the DO UNTIL expression to DO WHILE so that *;
51 * the condition will be checked at the top of the *;
52

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53 *      loop. Run the program and verify Linda's Savings      *;  
54 *      amount is 3600.                                         *;  
55 *****;  
56 .....  
57 data MonthSavings;  
58     set pg2.savings2;  
59     do while (Savings<3000);  
60         Savings+Amount;  
61         Savings+(Savings*0.02/12);  
62     end;  
63     format Savings comma12.2;  
64 run;  
65  
66
```