Code: p202d03.sas

```
**********************
1
2
     Creating an Accumulating Column within Groups
  ************************
3
4
     Syntax and Example
5
6
  *
       Subsetting IF statement:
7
           IF expression;
8
       FIRST.bycol
9
       LAST.bycol
10
   **********************
11
12
   proc sort data=pg2.storm 2017 out=storm2017 sort;
13
      by Basin;
14
  run;
15
16
  data storm2017 max;
17
      set storm2017 sort;
18
      by Basin;
19
      if last.Basin=1;
20
      StormLength=EndDate-StartDate;
21
      MaxWindKM=MaxWindMPH*1.60934;
22
  run;
23
24
   25
                                                      *;
     Demo
26
     1) Highlight the DATA step and run the selected code.
27
        Notice that YTDRain is an accumulating column that
28
        creates a running total of DailyRain. Also notice
29
        that the data is sorted by Month and Date.
30
     2) Add a BY statement to process the rows by groups
                                                       *;
31
32
        based on the values of Month.
     3) Change the new accumulating column to MTDRain in
33
                                                       *;
34
        the KEEP and sum statements.
35
     4) Reset MTDRain to 0 each time that SAS reaches the
36
        first row within a new Month group. Highlight the
37
                                                       *;
        DATA step and run the selected code.
38
   ************************
39
40
  data houston monthly;
41
      set pg2.weather houston;
42
      keep Date Month DailyRain YTDRain;
43
      by Month;
44
      if first.Month=1 then YTDRain=0;
45
      YTDRain+DailyRain;
46
   run;
47
```

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