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*****;
*   Creating Frequency Reports and Graphs                               *;
*****;
*   Syntax and Example                                                  *;
*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *;
*   ODS GRAPHICS ON;                                                    *;
*   PROC FREQ DATA=input-table <proc-options>;                          *;
*       TABLES col-name(s) / options;                                  *;
*   RUN;                                                                  *;
*   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *;
*   PROC FREQ statement options:                                         *;
*       ORDER=FREQ|FORMATTED|DATA                                         *;
*       NLEVELS                                                            *;
*   TABLES statement options:                                           *;
*       NOCUM                                                              *;
*       NOPERCENT                                                         *;
*       PLOTS=FREQPLOT                                                    *;
*       (must turn on ODS Graphics)                                       *;
*       OUT=output-table                                                  *;
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ods graphics on;

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proc freq data=sashelp.heart order=freq nlevels;
    tables Chol_Status / nocum plots=freqplot(orient=horizontal scale=freq);
run;

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*   Demo                                                                *;
*   1) Highlight the PROC FREQ step and run the selected code. Examine the default results. *;
*   2) In the PROC FREQ statement, add the ORDER=FREQ option to sort results by descending frequency. *;
*       Add the NLEVELS option to include a table with the number of distinct values. *;
*   3) Add the NOCUM option in the TABLES statement to suppress the cumulative columns. *;
*   4) Change Season to StartDate in the TABLES statement. Add a FORMAT statement to display *;
*       StartDate as the month name (MONNAME.). *;
*   5) Add the ODS GRAPHICS ON statement before PROC FREQ. Use the PLOTS=FREQPLOT option in the TABLES *;
*       statement to create a bar chart. Add the chart options ORIENT=HORIZONTAL and SCALE=PERCENT. *;
*   6) Add the title Frequency Report for Basin and Storm Month. Turn off the procedure title with *;
*       the ODS NOPROCTITLE statement. Add a LABEL statement to display BasinName as Basin and *;
*       StartDate as Storm Month. Clear the titles and turn the procedure titles back on. *;

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proc freq data=pg1.storm_final;  
  tables BasinName Season;  
run;
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