5/1/2020 Code: p103d01.sas

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Exploring Data with Procedures
***********************************
  Syntax
    PROC PRINT DATA=input-table(OBS=n);
        VAR col-name(s);
    RUN;
    PROC MEANS DATA=input-table;
        VAR col-name(s);
    RUN;
    PROC UNIVARIATE DATA=input-table;
        VAR col-name(s);
    RUN;
    PROC FREQ DATA=input-table;
        TABLES col-name(s);
    RUN;
***********************************
proc print data=sashelp.cars(obs=10);
   var Make Model Type MSRP;
run;
proc means data=sashelp.cars;
   var EngineSize Horsepower MPG_City MPG_Highway;
run;
proc univariate data=sashelp.cars;
   var MPG Highway;
run;
proc freq data=sashelp.cars;
   tables Origin Type DriveTrain;
run;
**********************
    1) Complete the PROC PRINT statement to list the data in *
       PG1.STORM SUMMARY. Print the first 10 observations.
       Highlight the step and run the selected code.
    2) Add a VAR statement to include only the following
       columns: Season, Name, Basin, MaxWindMPH, MinPressure,*;
       StartDate, and EndDate. Add "list first 10 rows" as a *;
       comment before the PROC PRINT statement. Run the step.*;
    3) Copy the PROC PRINT step and paste it at the end of
       the program. Change PRINT to MEANS. Remove the OBS=
       data set option to analyze all observations. Modify
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the VAR statement to calculate summary statistics for
       MaxWindMPH and MinPressure. Add "calculate summary
       statistics" as a comment before the PROC MEANS
       statement. Highlight the step and run the selected
       code.
    4) Copy the PROC MEANS step and paste it at the end of
       the program. Change MEANS to UNIVARIATE. Add "examine
       extreme values" as a comment before the PROC
       UNIVARIATE statement. Highlight the step and run the
       selected code.
    5) Copy the PROC UNIVARIATE step and paste it at the end
       of the program. Change UNIVARIATE to FREQ. Change the
       VAR statement to a TABLES statement to produce
       frequency tables for Basin, Type, and Season. Add
       "list unique values and frequencies" as a comment
       before the PROC FREO statement. Highlight the step
       and run the selected code.
/* list first 10 rows */
proc print data=pg1.storm summary (obs=10);
   var Season Name Basin MaxWindMPH MinPressure StartDate EndDate;
run;
/* claculate summary statistics */
proc means data=pg1.storm_summary;
        MaxWindMPH MinPressure :
run;
/* calculate summary statistics */
proc univariate data=pg1.storm summary;
   var MaxWindMPH MinPressure ;
run;
/* List Unique values and freqecies */
proc freq data=pg1.storm summary;
   table Basin Type Season;
run;
```