```
1          OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
NOTE: ODS statements in the SAS Studio environment may disable some output features.
73
74         /*Import Emergency Room Data*/
75         LIBNAME PUFLIB '/folders/myfolders/SASDATA';
NOTE: Libref PUFLIB was successfully assigned as follows:
      Engine:        V9
      Physical Name: /folders/myfolders/SASDATA
76         FILENAME IN1 '/folders/myfolders/DOWNLOAD/h197.ssp';
77         /*Import Full Year Consolidated File*/
78         LIBNAME PUFLIB '/folders/myfolders/SASDATA';
NOTE: Libref PUFLIB was successfully assigned as follows:
      Engine:        V9
      Physical Name: /folders/myfolders/SASDATA
79         FILENAME IN1 '/folders/myfolders/DOWNLOAD/h201.ssp';
80
81         /*Add a new column called Gender based of SEX field as a string instead of integer*/
82         Data Work.H201;
83         Set PUFLIB.H201;
84         if SEX = 2 then Gender='Female';
85         else Gender='Male';
86         run;

NOTE: There were 31880 observations read from the data set PUFLIB.H201.
NOTE: The data set WORK.H201 has 31880 observations and 1562 variables.
NOTE: DATA statement used (Total process time):
      real time           1.69 seconds
      cpu time            0.97 seconds


87
88         /*Add a new column called Emergency_Room_Charges as a duplicate of column ERTC17X for display purposes*/
89         Data Work.H197E;
90         Set PUFLIB.H197E;
91         Emergency_Room_Charges=ERTC17X;
92         run;

NOTE: There were 6609 observations read from the data set PUFLIB.H197E.
NOTE: The data set WORK.H197E has 6609 observations and 59 variables.
NOTE: DATA statement used (Total process time):
      real time           0.04 seconds
      cpu time            0.02 seconds


93
94         /*Load Full Year Consolidated File and sort by Personal Identifier*/
95         /* Only keep personal indentifier and sex from H201*/
96         PROC SORT DATA=work.H201 (KEEP=DUPERSID Gender) OUT=PERSX;
97         BY DUPERSID;
98         RUN;

NOTE: There were 31880 observations read from the data set WORK.H201.
NOTE: The data set WORK.PERSX has 31880 observations and 2 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.06 seconds
      cpu time            0.07 seconds


99
100        /*Load Emergency room data file and sort by personal identifier*/
101        PROC SORT DATA=work.h197e;
102        BY DUPERSID;
103        RUN;

NOTE: There were 6609 observations read from the data set WORK.H197E.
NOTE: The data set WORK.H197E has 6609 observations and 59 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.01 seconds
      cpu time            0.00 seconds


104
105        /*Merge Full Year Consolidated File with Emergency Room Data File based on personal identifier*/
106        /*Keep all records from Emergency Room Data file and only related records from Full Year Consolidated file*/
107        DATA NEWEROM;
108        MERGE work.h197e (IN=A) PERSX (IN=B);
109        BY DUPERSID;
110        IF A;
111        RUN;
```

```
NOTE: There were 6609 observations read from the data set WORK.H197E.
NOTE: There were 31880 observations read from the data set WORK.PERSX.
NOTE: The data set WORK.NEWEROM has 6609 observations and 60 variables.
NOTE: DATA statement used (Total process time):
      real time           0.03 seconds
      cpu time            0.03 seconds


112        ods noproctitle;
113        ods graphics / imagemap=on;
114
115        /*Summary statistics including mean, standard deviation, min, max, median, and number of observations */
116        proc means data=WORK.NEWEROM chartype mean std min max median n vardef=df
117        qmethod=os;
118        var Emergency_Room_Charges;
119        label ERTC17X = "Emergency Room Total Charges";
120        class Gender;
121        run;

NOTE: There were 6609 observations read from the data set WORK.NEWEROM.
NOTE: PROCEDURE MEANS used (Total process time):
      real time           0.06 seconds
      cpu time            0.06 seconds


122
123        /*Generate histograms of distribution of emergency room charges for Gender. Also include statistics inset in the upper
123      ! right hand corner */
124        proc univariate data=WORK.NEWEROM vardef=df noprint;
125        var Emergency_Room_Charges;
126        class Gender;
127        histogram Emergency_Room_Charges;
128        inset mean std min max median n / position=ne;
129        run;

NOTE: PROCEDURE UNIVARIATE used (Total process time):
      real time           4.90 seconds
      cpu time            0.20 seconds


130
131        /*Sort file WORK.NEWEROM by Gender */
132        proc sort data=WORK.NEWEROM out=WORK.TempSorted2236;
133        by Gender;
134        run;

NOTE: There were 6609 observations read from the data set WORK.NEWEROM.
NOTE: The data set WORK.TEMPSORTED2236 has 6609 observations and 60 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.01 seconds
      cpu time            0.02 seconds


135
136        /*Generate a boxplot of emergency room charges by Gender and include summary statistics in upper right hand corner */
137        proc boxplot data=WORK.TempSorted2236;
138        plot (Emergency_Room_Charges)*Gender / boxstyle=schematic;
139        inset mean stddev min max nobs / position=ne;
140        run;

NOTE: Processing beginning for PLOT statement number 1.
NOTE: There were 6609 observations read from the data set WORK.TEMPSORTED2236.
NOTE: PROCEDURE BOXPLOT used (Total process time):
      real time           1.88 seconds
      cpu time            0.53 seconds


141
142        /*Delete temp file used for boxplot  */
143        proc datasets library=WORK noprint;
144        delete TempSorted2236;
145        run;

NOTE: Deleting WORK.TEMPSORTED2236 (memtype=DATA).
146        ods noproctitle;
147        ods graphics / imagemap=on;
148
149        /* Performs two tailed t test using Emergency Room Charges as the analysis variable and grouping the results based on
149      ! Gender  */
150        /* Generates statistics and charts to display results of the ttest */
151        /* Defines null hypothesis to be mu1 - mu2 = 0 */
```

```
NOTE: PROCEDURE DATASETS used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds


152        proc ttest data=WORK.NEWEROM sides=2 h0=0 plots(showh0);
153        class Gender;
154        var Emergency_Room_Charges;
155        label ERTC17X = "Emergency Room Total Charges";
156        run;

NOTE: HTML data tips have been disabled for at least one plot because the threshold has been reached. You can set TIPMAX=3900 in
      the ODS GRAPHICS statement to produce data tips for all plots.
NOTE: PROCEDURE TTEST used (Total process time):
      real time           4.90 seconds
      cpu time            2.52 seconds


157
158        OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
170
```