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11:54 Thursday, January 21, 2021

The SAS System

```
1          ;*';*";*;/quit;run;
2          OPTIONS PAGENO=MIN;
3          %LET _CLIENTTASKLABEL='01.15.2020_(HPC)_Basic_SAS_Test';
4          %LET _CLIENTPROCESSFLOWNAME='Process Flow';
5          %LET _CLIENTPROJECTPATH='';
6          %LET _CLIENTPROJECTPATHHOST='';
7          %LET _CLIENTPROJECTNAME='';
8          %LET _SASPROGRAMFILE='Q:\DC_Analyst\Charu\Testing
codes\01.15.2020_(HPC)_Basic_SAS_Test.sas';
9          %LET _SASPROGRAMFILEHOST='HS-CTXAPP01';
10
11          ODS _ALL_ CLOSE;
12          OPTIONS DEV=PNG;
13          GOPTIONS XPIXELS=0 YPIXELS=0;
14          FILENAME EGSR TEMP;
15          ODS tagsets.sasreport13(ID=EGSR) FILE=EGSR
16              STYLE=HTMLBlue
17
18          STYLE SHEET=(URL="file:///C:/Program%20Files%20(x86)/SASHome/x86/SASEnterp
riseGuide/7.1/Styles/HTMLBlue.css")
19          NOGTITLE
20          NOGFOOTNOTE
21          GPATH=&sasworklocation
22          ENCODING=UTF8
23          options(rolap="on")
24          ;
NOTE: Writing TAGSETS.SASREPORT13(EGSR) Body file: EGSR
25
26          GOPTIONS ACCESSIBLE;
27
28          /*****
29          *****/
30          Project: High Performance Computing- Testing
31          Program: Running some basic functions
32          Run twice
33          Dataset: nhanes3 (smaller), nhanes_bigdata(big data)
34          Analyst: Charu Verma
35          Date: 01.15.2021*/
36          libname lib "Q:\DC_Analyst\Charu\Dataset";
NOTE: Libref LIB was successfully assigned as follows:
      Engine:          V9
      Physical Name: Q:\DC_Analyst\Charu\Dataset
37          /* Start timer*/
38          %let _timer_start= %sysfunc(datetime());
39
40          data test;
41          set lib.nhanes_bigdata; /*Change dataset name here*/
42          run;
```

NOTE: There were 80204010 observations read from the data set  
LIB.NHANES\_BIGDATA.

NOTE: The data set WORK.TEST has 80204010 observations and 43 variables.  
NOTE: DATA statement used (Total process time):  
    real time                2:23.98  
    cpu time                42.93 seconds

```
40          proc contents data=test;  
41          run;
```

NOTE: PROCEDURE CONTENTS used (Total process time):  
    real time                0.06 seconds  
    cpu time                0.01 seconds

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```
42          /*options number pageno=1 ls=79 ps=59 ;  
43          options formchar = " |----|+|----+=|-/\\<>*" ;  
44          proc printto new  
print='Q:\\DC_Analyst\\Charu\\Dataset\\01212020_(HPC)_BasicSAS_test_HSE(3prog  
-diff).txt';  
45          run;*/  
46          /*Descriptive statistics*/  
47          title 'Descriptive statistics';  
48          proc means data = test;  
49              var _numeric_;  
50          run;
```

NOTE: There were 80204010 observations read from the data set WORK.TEST.  
NOTE: PROCEDURE MEANS used (Total process time):  
    real time                4:22.14  
    cpu time                7:13.78

```
51          proc anova data=test;  
52              class sex;  
53              model age education sbp dbp  = sex;  
54          run;
```

NOTE: PROCEDURE ANOVA used (Total process time):  
    real time                4:36.81  
    cpu time                51.57 seconds

```
55          proc freq data=test;  
56              tables sex  dmaethnr dmaracer dmarethn dmpmetro death  
dentalhealth hipfract marital  
57              cancer cholesterol colon cvd diabetes hypertension health  
stroke;  
58          run;
```

NOTE: There were 80204010 observations read from the data set WORK.TEST.  
NOTE: PROCEDURE FREQ used (Total process time):

real time 44.07 seconds  
cpu time 43.95 seconds

```
59      title 'Correlation-Age and Diastolic BP';  
60      proc corr data=test nomiss spearman;  
61          var age dbp;  
62      run;
```

NOTE: PROCEDURE CORR used (Total process time):  
real time 1:54.04  
cpu time 1:53.95

```
63      proc summary data=test;  
64          var hipfract cancer colon cvd stroke;  
65          class seqn;  
66          output out=work.summary1 (drop=_type_freq_)  
67              sum= hipfracttot cancertot colontot cvdtot stroketot;  
68      run;
```

WARNING: The variable \_type\_freq\_ in the DROP, KEEP, or RENAME list has never been referenced.

NOTE: There were 80204010 observations read from the data set WORK.TEST.

NOTE: The data set WORK.SUMMARY1 has 4011 observations and 8 variables.

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NOTE: PROCEDURE SUMMARY used (Total process time):  
real time 25.45 seconds  
cpu time 1:07.35

```
69      proc sort data=work.summary1 out=total;by seqn;run;
```

NOTE: There were 4011 observations read from the data set WORK.SUMMARY1.

NOTE: The data set WORK.TOTAL has 4011 observations and 8 variables.

NOTE: PROCEDURE SORT used (Total process time):  
real time 0.01 seconds  
cpu time 0.01 seconds

```
70      proc sort data=test; by seqn;run;
```

NOTE: There were 80204010 observations read from the data set WORK.TEST.

NOTE: The data set WORK.TEST has 80204010 observations and 43 variables.

NOTE: PROCEDURE SORT used (Total process time):  
real time 2:37.87  
cpu time 2:31.45

```
71      proc sql;  
72          create table tot_summary as  
73          select *
```

```
74          from summary1  a inner join test b
75          on a.seqn =b.seqn;
WARNING: Variable SEQN already exists on file WORK.TOT_SUMMARY.
NOTE: Table WORK.TOT_SUMMARY created, with 80204010 rows and 50 columns.
```

```
76          quit;
NOTE: PROCEDURE SQL used (Total process time):
      real time          5:03.14
      cpu time           1:03.21
```

```
77          proc tabulate data= tot_summary;
78          title 'Table';
79          class sex;
80          var hipfracttot cancertot colontot cvdtot stroketot;
81          table sex * (N Mean Max) ,
82                  hipfracttot cancertot colontot cvdtot stroketot;
83          run;
```

NOTE: There were 80204010 observations read from the data set  
WORK.TOT\_SUMMARY.

```
NOTE: PROCEDURE TABULATE used (Total process time):
      real time          3:23.62
      cpu time           34.00 seconds
```

```
84          proc format;
85          value race
86          1=      "Non-Hispanic white"
87          2=      "Non-Hispanic black"
88          3=      "Mexican-American"
89          4=      "Other"
90          ;
```

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NOTE: Format RACE has been output.

```
91          value gender
92          1=      "Male"
93          2=      "Female"
94          ;
```

NOTE: Format GENDER has been output.

```
95          value health
96          1=      "Excellent"
97          2=      "Very good"
98          3=      "Good"
99          4=      "Fair"
100         5=      "Poor"
101         8=      "Blank but applicable"
102         9=      "Dont know"
103         ;
```

NOTE: Format HEALTH has been output.

```
104
105          value smoke
```

```
106          1=      "Current"
107          2=      "Former"
108          3=      "Never"
109          ;
```

NOTE: Format SMOKE has been output.

```
110          run;
```

NOTE: PROCEDURE FORMAT used (Total process time):

```
      real time          0.01 seconds
```

```
      cpu time           0.01 seconds
```

```
111          data summary_rep;
112          set tot_summary;
113          format sex gender. smoking smoke. health health. dmarethn
race.;
114          run;
```

NOTE: There were 80204010 observations read from the data set

WORK.TOT\_SUMMARY.

NOTE: The data set WORK.SUMMARY\_REP has 80204010 observations and 50 variables.

NOTE: DATA statement used (Total process time):

```
      real time          5:10.34
```

```
      cpu time           48.01 seconds
```

```
115
116          proc report data= summary_rep;
117          title 'Data Report';
118          column sex health smoking hipfracttot cancertot colontot
cvdttot stroketot;
119          define sex/group;
120          define health/group;
121          define smoking/group;
122          define hipfracttot/analysis sum width=5;
123          define cancertot/analysis sum width=5;
124          define colontot/analysis sum width=5;
125          define stroketot/analysis sum width=5;
126
127          run;
```

NOTE: There were 80204010 observations read from the data set

WORK.SUMMARY\_REP.

NOTE: PROCEDURE REPORT used (Total process time):

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```
      real time          3:42.93
```

```
      cpu time           46.03 seconds
```

```
128          /* Stop timer */
```

```
129          data _null_;
```

```
130      dur = datetime() - &_timer_start;
131      put 30*'-' / ' Total Duration:' dur time13.2 / 30*'-' ;
132      run;
```

```
-----
Total Duration: 0:34:24.61
-----
```

```
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      cpu time            0.00 seconds
```

```
133
134
135      GOPTIONS NOACCESSIBLE;
136      %LET _CLIENTTASKLABEL=;
137      %LET _CLIENTPROCESSFLOWNAME=;
138      %LET _CLIENTPROJECTPATH=;
139      %LET _CLIENTPROJECTPATHHOST=;
140      %LET _CLIENTPROJECTNAME=;
141      %LET _SASPROGRAMFILE=;
142      %LET _SASPROGRAMFILEHOST=;
143
144      ;*';*";*/;quit;run;
145      ODS _ALL_ CLOSE;
146
147
148      QUIT; RUN;
149
```