

```

1      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
68
69      /* DATA EXPLORATION AND PREPROCESSING */
70
71      /* Clearing log window */
72      DM "log; clear; ";
73
74      /* Data Loading */
75      PROC IMPORT OUT=Nutrition
76          DATAFILE="/home/u59360783/Nutrition.csv"
77          DBMS=CSV
78          REPLACE;
79          GETNAMES=YES;
80      RUN;

```

NOTE: Unable to open parameter catalog: SASUSER.PARMS.PARMS.SLIST in update mode. Temporary parameter values will be saved to WORK.PARMS.PARMS.SLIST.

```

81      /*****
82      *   PRODUCT:   SAS
83      *   VERSION:   9.4
84      *   CREATOR:   External File Interface
85      *   DATE:      25JAN24
86      *   DESC:      Generated SAS Datasstep Code
87      *   TEMPLATE SOURCE: (None Specified.)
88      *****/
89      data WORK.NUTRITION ;
90      %let _EFIERR_ = 0; /* set the ERROR detection macro variable */
91      infile '/home/u59360783/Nutrition.csv' delimiter = ',' MISSOVER DSD lrecl=32767 firstobs=2 ;
92          informat YearStart best32. ;
93          informat YearEnd best32. ;
94          informat LocationAbbr $2. ;
95          informat LocationDesc $20. ;
96          informat Datasource $42. ;
97          informat Class $23. ;
98          informat Topic $28. ;
99          informat Question $245. ;
100         informat Data_Value_Unit $1. ;
101         informat Data_Value_Type $5. ;
102         informat Data_Value best32. ;
103         informat Data_Value_Alt best32. ;
104         informat Data_Value_Footnote_Symbol $1. ;
105         informat Data_Value_Footnote $55. ;
106         informat Low_Confidence_Limit best32. ;
107         informat High_Confidence_Limit best32. ;
108         informat Sample_Size best32. ;
109         informat Total $1. ;
110         informat "Age(years)"N $7. ;

```

```
111 informat Education $21. ;
112 informat Gender $1. ;
113 informat Income $19. ;
114 informat "Race/Ethnicity" $29. ;
115 informat GeoLocation $42. ;
116 informat ClassID $3. ;
117 informat TopicID $4. ;
118 informat QuestionID $4. ;
119 informat DataValueTypeID $5. ;
120 informat LocationID best32. ;
121 informat StratificationCategory1 $14. ;
122 informat Stratification1 $29. ;
123 informat StratificationCategoryId1 $5. ;
124 informat StratificationID1 $9. ;
125 format YearStart best12. ;
126 format YearEnd best12. ;
127 format LocationAbbr $2. ;
128 format LocationDesc $20. ;
129 format Datasource $42. ;
130 format Class $23. ;
131 format Topic $28. ;
132 format Question $245. ;
133 format Data_Value_Unit $1. ;
134 format Data_Value_Type $5. ;
135 format Data_Value best12. ;
136 format Data_Value_Alt best12. ;
137 format Data_Value_Footnote_Symbol $1. ;
138 format Data_Value_Footnote $55. ;
139 format Low_Confidence_Limit best12. ;
140 format High_Confidence_Limit best12. ;
141 format Sample_Size best12. ;
142 format Total $1. ;
143 format "Age(years)" $7. ;
144 format Education $21. ;
145 format Gender $1. ;
146 format Income $19. ;
147 format "Race/Ethnicity" $29. ;
148 format GeoLocation $42. ;
149 format ClassID $3. ;
150 format TopicID $4. ;
151 format QuestionID $4. ;
152 format DataValueTypeID $5. ;
153 format LocationID best12. ;
154 format StratificationCategory1 $14. ;
155 format Stratification1 $29. ;
156 format StratificationCategoryId1 $5. ;
157 format StratificationID1 $9. ;
158 input
159      YearStart
```

```

160      YearEnd
161      LocationAbbr $
162      LocationDesc $
163      Datasource $
164      Class $
165      Topic $
166      Question $
167      Data_Value_Unit $
168      Data_Value_Type $
169      Data_Value
170      Data_Value_Alt
171      Data_Value_Footnote_Symbol $
172      Data_Value_Footnote $
173      Low_Confidence_Limit
174      High_Confidence_Limit
175      Sample_Size
176      Total $
177      "Age(years)"N $
178      Education $
179      Gender $
180      Income $
181      "Race/Ethnicity"N $
182      GeoLocation $
183      ClassID $
184      TopicID $
185      QuestionID $
186      DataValueTypeID $
187      LocationID
188      StratificationCategory1 $
189      Stratification1 $
190      StratificationCategoryId1 $
191      StratificationID1 $
192      ;
193      if _ERROR_ then call symputx('_EFIERR_',1); /* set ERROR detection macro variable */
194      run;

```

NOTE: The infile '/home/u59360783/Nutrition.csv' is:

```

Filename=/home/u59360783/Nutrition.csv,
Owner Name=u59360783,Group Name=oda,
Access Permission=-rw-r--r--,
Last Modified=19Jan2024:00:06:44,
File Size (bytes)=34612740

```

NOTE: 93249 records were read from the infile '/home/u59360783/Nutrition.csv'.

The minimum record length was 225.

The maximum record length was 595.

NOTE: The data set WORK.NUTRITION has 93249 observations and 33 variables.

NOTE: DATA statement used (Total process time):

```

real time          0.24 seconds

```

```

user cpu time      0.22 seconds
system cpu time    0.03 seconds
memory             12177.93k
OS Memory          32544.00k
Timestamp          01/25/2024 02:23:40 PM
Step Count         24   Switch Count  2
Page Faults        0
Page Reclaims      549
Page Swaps         0
Voluntary Context Switches 11
Involuntary Context Switches 0
Block Input Operations 65656
Block Output Operations 124440

```

93249 rows created in WORK.NUTRITION from /home/u59360783/Nutrition.csv.

NOTE: WORK.NUTRITION data set was successfully created.  
 NOTE: The data set WORK.NUTRITION has 93249 observations and 33 variables.  
 NOTE: PROCEDURE IMPORT used (Total process time):

```

real time          0.36 seconds
user cpu time      0.32 seconds
system cpu time    0.06 seconds
memory             12177.93k
OS Memory          33060.00k
Timestamp          01/25/2024 02:23:40 PM
Step Count         24   Switch Count  8
Page Faults        0
Page Reclaims      8070
Page Swaps         0
Voluntary Context Switches 101
Involuntary Context Switches 0
Block Input Operations 67608
Block Output Operations 124536

```

```

195
196     PROC IMPORT OUT=Region_mapping
197         DATAFILE="/home/u59360783/us_regions.csv"
198         DBMS=CSV
199         REPLACE;
200         GETNAMES=YES;
201     RUN;

```

NOTE: Unable to open parameter catalog: SASUSER.PARMS.PARMS.SLIST in update mode. Temporary parameter values will be saved to WORK.PARMS.PARMS.SLIST.

```

202     /*****

```

```

203      *   PRODUCT:   SAS
204      *   VERSION:   9.4
205      *   CREATOR:   External File Interface
206      *   DATE:      25JAN24
207      *   DESC:      Generated SAS Daststep Code
208      *   TEMPLATE SOURCE: (None Specified.)
209      *****/
210      data WORK.REGION_MAPPING ;
211      %let _EFIERR_ = 0; /* set the ERROR detection macro variable */
212      infile '/home/u59360783/us_regions.csv' delimiter = ',' MISOVER DSD lrecl=32767 firstobs=2 ;
213      informat State $20. ;
214      informat "State Code"N $2. ;
215      informat Region $9. ;
216      informat Division $18. ;
217      format State $20. ;
218      format "State Code"N $2. ;
219      format Region $9. ;
220      format Division $18. ;
221      input
222          State $
223          "State Code"N $
224          Region $
225          Division $
226      ;
227      if _ERROR_ then call symputx('_EFIERR_',1); /* set ERROR detection macro variable */
228      run;

```

NOTE: The infile '/home/u59360783/us\_regions.csv' is:  
 Filename=/home/u59360783/us\_regions.csv,  
 Owner Name=u59360783,Group Name=oda,  
 Access Permission=-rw-r--r--,  
 Last Modified=24Jan2024:10:01:09,  
 File Size (bytes)=1897

NOTE: 54 records were read from the infile '/home/u59360783/us\_regions.csv'.  
 The minimum record length was 11.  
 The maximum record length was 44.

NOTE: The data set WORK.REGION\_MAPPING has 54 observations and 4 variables.

NOTE: DATA statement used (Total process time):

real time	0.00 seconds
user cpu time	0.01 seconds
system cpu time	0.00 seconds
memory	9363.31k
OS Memory	31776.00k
Timestamp	01/25/2024 02:23:40 PM
Step Count	25 Switch Count 2
Page Faults	0
Page Reclaims	142
Page Swaps	0

Voluntary Context Switches	12
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	264

54 rows created in WORK.REGION\_MAPPING from /home/u59360783/us\_regions.csv.

NOTE: WORK.REGION\_MAPPING data set was successfully created.

NOTE: The data set WORK.REGION\_MAPPING has 54 observations and 4 variables.

NOTE: PROCEDURE IMPORT used (Total process time):

real time	0.03 seconds
user cpu time	0.03 seconds
system cpu time	0.00 seconds
memory	9363.31k
OS Memory	32036.00k
Timestamp	01/25/2024 02:23:40 PM
Step Count	25
Page Faults	0
Page Reclaims	2586
Page Swaps	0
Voluntary Context Switches	73
Involuntary Context Switches	0
Block Input Operations	8
Block Output Operations	288

```

229
230      /* Backing up master data */
231      data Nutrition_bkup;
232      set Nutrition;
233      run;

```

NOTE: There were 93249 observations read from the data set WORK.NUTRITION.

NOTE: The data set WORK.NUTRITION\_BKUP has 93249 observations and 33 variables.

NOTE: DATA statement used (Total process time):

real time	0.05 seconds
user cpu time	0.01 seconds
system cpu time	0.05 seconds
memory	3639.40k
OS Memory	29616.00k
Timestamp	01/25/2024 02:23:40 PM
Step Count	26
Page Faults	0
Page Reclaims	514
Page Swaps	0
Voluntary Context Switches	22

```

Involuntary Context Switches      0
Block Input Operations             0
Block Output Operations            124424

```

```

234
235      /* Displaying few Observations to Confirm Import */
236      proc print data=Nutrition_bkup(obs=5); /* Display the first 5 observations */
237      run;

```

NOTE: There were 5 observations read from the data set WORK.NUTRITION\_BKUP.

NOTE: PROCEDURE PRINT used (Total process time):

```

real time          0.02 seconds
user cpu time      0.03 seconds
system cpu time    0.00 seconds
memory             2876.56k
OS Memory          27820.00k
Timestamp          01/25/2024 02:23:40 PM
Step Count         27  Switch Count  0
Page Faults        0
Page Reclaims      505
Page Swaps         0
Voluntary Context Switches  0
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations  24

```

```

238
239      /* Knowing more about Data Structures such as data types, length of each features */
240      proc contents data=Nutrition_bkup_2;
ERROR: File WORK.NUTRITION_BKUP_2.DATA does not exist.
241      run;

```

NOTE: Statements not processed because of errors noted above.

NOTE: PROCEDURE CONTENTS used (Total process time):

```

real time          0.00 seconds
user cpu time      0.00 seconds
system cpu time    0.00 seconds
memory             488.53k
OS Memory          27052.00k
Timestamp          01/25/2024 02:23:40 PM
Step Count         28  Switch Count  0
Page Faults        0
Page Reclaims      70
Page Swaps         0
Voluntary Context Switches  0
Involuntary Context Switches 0
Block Input Operations  0

```

## Block Output Operations 8

NOTE: The SAS System stopped processing this step because of errors.

242

```
243      /* Counting entries and Missing values */
```

```
244      PROC MEANS DATA=Nutrition_bkup NMISS;
```

```
245      RUN;
```

NOTE: There were 93249 observations read from the data set WORK.NUTRITION\_BKUP.

NOTE: PROCEDURE MEANS used (Total process time):

```
real time      0.03 seconds
user cpu time   0.03 seconds
system cpu time 0.02 seconds
memory         7779.31k
OS Memory      33472.00k
Timestamp      01/25/2024 02:23:40 PM
Step Count          29  Switch Count  3
Page Faults         0
Page Reclaims      1800
Page Swaps         0
Voluntary Context Switches  77
Involuntary Context Switches 0
Block Input Operations  0
Block Output Operations  0
```

246

```
247      /* Identifying Duplicate Records */
```

```
248      proc sort data=Nutrition_bkup
```

```
249      out=data_dup nodup;
```

```
250      by _all_;
```

```
251      run;
```

NOTE: There were 93249 observations read from the data set WORK.NUTRITION\_BKUP.

NOTE: 0 duplicate observations were deleted.

NOTE: The data set WORK.DATA\_DUP has 93249 observations and 33 variables.

NOTE: PROCEDURE SORT used (Total process time):

```
real time      0.21 seconds
user cpu time   0.12 seconds
system cpu time 0.10 seconds
memory         131294.31k
OS Memory      157200.00k
Timestamp      01/25/2024 02:23:41 PM
Step Count          30  Switch Count  7
Page Faults         0
Page Reclaims     32328
Page Swaps         0
```



Voluntary Context Switches	27
Involuntary Context Switches	2
Block Input Operations	0
Block Output Operations	124432

```

252
253 data Nutrition_bkup_1;
254     set Nutrition_bkup;
255
256     /* Create a new variable to store the income category names */
257     length income_category $30;
258     length Activity_Category $30;
259
260     /* Categorize income ranges and assign names */
261     if income = "Data not reported" then income_category = "Data not reported";
262     else if income = "$75,000 or greater" then income_category = "High Income";
263     else if income = "$50,000 - $74,999" then income_category = "Upper Middle Income";
264     else if income = "$35,000 - $49,999" then income_category = "Middle Income";
265     else if income = "$25,000 - $34,999" then income_category = "Lower Middle Income";
266     else if income = "$15,000 - $24,999" then income_category = "Low Income";
267     else if income = "Less than $15,000" then income_category = "Very Low Income";
268     else income_category = "Unknown";
269
270     /* Create a new variable "Category" based on column names */
271     if upcase(Question) eq 'PERCENT OF ADULTS WHO ENGAGE IN NO LEISURE-TIME PHYSICAL ACTIVITY' then
272         Activity_Category = 'Physical_Inactivity';
273     else if upcase(Question) eq 'PERCENT OF ADULTS AGED 18 YEARS AND OLDER WHO HAVE OBESITY' then
274         Activity_Category = 'Obesity';
275     else if upcase(Question) eq 'PERCENT OF ADULTS AGED 18 YEARS AND OLDER WHO HAVE AN OVERWEIGHT CLASSIFICATION' then
276         Activity_Category = 'Overweight';
277     else if upcase(Question) eq 'PERCENT OF ADULTS WHO ACHIEVE AT LEAST 300 MINUTES A WEEK OF MODERATE-INTENSITY AEROBIC
277 ! PHYSICAL ACTIVITY OR 150 MINUTES A WEEK OF VIGOROUS-INTENSITY AEROBIC ACTIVITY (OR AN EQUIVALENT COMBINATION)' then
278         Activity_Category = 'Physical_Activity_300min';
279     else if upcase(Question) eq 'PERCENT OF ADULTS WHO ACHIEVE AT LEAST 150 MINUTES A WEEK OF MODERATE-INTENSITY AEROBIC
279 ! PHYSICAL ACTIVITY OR 75 MINUTES A WEEK OF VIGOROUS-INTENSITY AEROBIC PHYSICAL ACTIVITY AND ENGAGE IN MUSCLE-STRENGTHENING
279 ! ACTIVITIES ON 2 OR MORE DAYS A WEEK' then
280         Activity_Category = 'Physical_Activity_150min_and_Muscle_Strengthening';
281     else if upcase(Question) eq 'PERCENT OF ADULTS WHO ACHIEVE AT LEAST 150 MINUTES A WEEK OF MODERATE-INTENSITY AEROBIC
281 ! PHYSICAL ACTIVITY OR 75 MINUTES A WEEK OF VIGOROUS-INTENSITY AEROBIC ACTIVITY (OR AN EQUIVALENT COMBINATION)' then
282         Activity_Category = 'Physical_Activity_150min';
283     else if upcase(Question) eq 'PERCENT OF ADULTS WHO ENGAGE IN MUSCLE-STRENGTHENING ACTIVITIES ON 2 OR MORE DAYS A WEEK'
283 ! then
284         Activity_Category = 'Muscle_Strengthening';
285     else if upcase(Question) eq 'PERCENT OF ADULTS WHO REPORT CONSUMING FRUIT LESS THAN ONE TIME DAILY' then
286         Activity_Category = 'Fruit_Consumption';
287     else if upcase(Question) eq 'PERCENT OF ADULTS WHO REPORT CONSUMING VEGETABLES LESS THAN ONE TIME DAILY' then
288         Activity_Category = 'Vegetable_Consumption';
289     else

```

```

290         Activity_Category = 'Other';
291     run;

```

NOTE: There were 93249 observations read from the data set WORK.NUTRITION\_BKUP.  
 NOTE: The data set WORK.NUTRITION\_BKUP\_1 has 93249 observations and 35 variables.  
 NOTE: DATA statement used (Total process time):

real time	0.18 seconds
user cpu time	0.15 seconds
system cpu time	0.04 seconds
memory	3722.75k
OS Memory	30640.00k
Timestamp	01/25/2024 02:23:41 PM
Step Count	31 Switch Count 5
Page Faults	0
Page Reclaims	575
Page Swaps	0
Voluntary Context Switches	21
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	135696

```

292
293     /* Display the result */
294     proc print data=Nutrition_bkup_1(obs=10);
295     run;

```

NOTE: There were 10 observations read from the data set WORK.NUTRITION\_BKUP\_1.  
 NOTE: PROCEDURE PRINT used (Total process time):

real time	0.04 seconds
user cpu time	0.04 seconds
system cpu time	0.00 seconds
memory	2295.03k
OS Memory	28332.00k
Timestamp	01/25/2024 02:23:41 PM
Step Count	32 Switch Count 0
Page Faults	0
Page Reclaims	270
Page Swaps	0
Voluntary Context Switches	0
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	32

```

296
297     /* Initialize macro variable */
298     %let income_Category_values = ;
299     %let Activity_Category_values = ;

```

```

300
301      /* Use PROC SQL to get distinct values and store in the macro variable */
302      proc sql noprint;
303          select distinct income_Category
304          into :income_Category_values separated by ','
305          from Nutrition_bkup_1;
306          select distinct Activity_Category
307          into :Activity_Category_values separated by ','
308          from Nutrition_bkup_1;
309      quit;

```

NOTE: PROCEDURE SQL used (Total process time):

real time	0.08 seconds
user cpu time	0.05 seconds
system cpu time	0.05 seconds
memory	12603.64k
OS Memory	39624.00k
Timestamp	01/25/2024 02:23:41 PM
Step Count	33 Switch Count 8
Page Faults	0
Page Reclaims	4933
Page Swaps	0
Voluntary Context Switches	63
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	10256

```

310
311      /* Display the macro variable */
312      %put &income_Category_values;
Data not reported,High Income,Low Income,Lower Middle Income,Middle Income,Unknown,Upper Middle Income,Very Low Income
313      %put &Activity_Category_values;
Fruit_Consumption,Muscle_Strengthening,Obesity,Overweight,Physical_Activity_150min,Physical_Activity_150min_and_M,Physical_Activity_
300min,Physical_Inactivity,Vegetable_Consumption
314
315      options validvarname=any;
316      data Nutrition_bkup_2(rename=("Age(years)"n=Age "Race/Ethnicity"n=Race_Ethnicity));
317      set Nutrition_bkup_1;
318      run;

```

NOTE: There were 93249 observations read from the data set WORK.NUTRITION\_BKUP\_1.

NOTE: The data set WORK.NUTRITION\_BKUP\_2 has 93249 observations and 35 variables.

NOTE: DATA statement used (Total process time):

real time	0.05 seconds
user cpu time	0.02 seconds
system cpu time	0.03 seconds
memory	3659.25k
OS Memory	32176.00k
Timestamp	01/25/2024 02:23:41 PM

Step Count	34	Switch Count	5
Page Faults	0		
Page Reclaims	548		
Page Swaps	0		
Voluntary Context Switches	21		
Involuntary Context Switches	0		
Block Input Operations	0		
Block Output Operations	135688		

```

319
320      /* Additional data processing */
321      data Nutrition_bkup_2;
322      format Gender $10.;
323      length Gender $10.;
324      format Age $10.;
325      length Age $10.;
326      set Nutrition_bkup_2;
327
328      Latitude = input(compress(tranwrd(scan(GeoLocation,1,','), '(', ''),' '), best12.);
329      Longitude = input(compress(tranwrd(scan(GeoLocation,2,','), ')', ''), best12.);
330
331      Data_Value = Data_Value/100;
332      Data_Value_Alt = Data_Value_Alt/100;
333      Low_Confidence_Limit = Low_Confidence_Limit/100;
334      High_Confidence_Limit = High_Confidence_Limit/100;
335
336      /* Assign a default value if variable1 is blank or null */
337      if Age="" or Age="." then Age="Others";
338      if Gender="" then Gender="Others";
339      if Education="" then Education="Others";
340      if Race_Ethnicity="" then Race_Ethnicity="Others";
341      if Data_Value="" then Data_Value=0;
342      if Sample_Size="" then Sample_Size=0;
343      run;

```

NOTE: Character values have been converted to numeric values at the places given by: (Line):(Column).  
341:15 342:16

NOTE: Missing values were generated as a result of performing an operation on missing values.  
Each place is given by: (Number of times) at (Line):(Column).  
9235 at 331:24 9235 at 332:32 9235 at 333:44 9235 at 334:46

NOTE: There were 93249 observations read from the data set WORK.NUTRITION\_BKUP\_2.

NOTE: The data set WORK.NUTRITION\_BKUP\_2 has 93249 observations and 37 variables.

NOTE: DATA statement used (Total process time):

real time	0.12 seconds
user cpu time	0.07 seconds
system cpu time	0.05 seconds
memory	3802.93k
OS Memory	32176.00k

```

Timestamp          01/25/2024 02:23:41 PM
Step Count          35  Switch Count   5
Page Faults         0
Page Reclaims       551
Page Swaps          0
Voluntary Context Switches  22
Involuntary Context Switches 1
Block Input Operations 0
Block Output Operations 140552

```

```

344
345      proc freq data=Nutrition_bkup_2;
346          tables Education*Race_Ethnicity / noprint out=DistinctValues(keep= Education Race_Ethnicity );
347      run;

```

NOTE: There were 93249 observations read from the data set WORK.NUTRITION\_BKUP\_2.

NOTE: The data set WORK.DISTINCTVALUES has 13 observations and 2 variables.

NOTE: PROCEDURE FREQ used (Total process time):

```

real time          0.02 seconds
user cpu time      0.02 seconds
system cpu time    0.02 seconds
memory             3327.53k
OS Memory          31424.00k
Timestamp          01/25/2024 02:23:41 PM
Step Count          36  Switch Count  10
Page Faults         0
Page Reclaims       669
Page Swaps          0
Voluntary Context Switches  51
Involuntary Context Switches 0
Block Input Operations 0
Block Output Operations 1320

```

```

348
349      /* Sorting data before joining two tables */
350      proc sort data=Nutrition_bkup_2 out=Nutrition_bkup_2;by LocationDesc;run;

```

NOTE: There were 93249 observations read from the data set WORK.NUTRITION\_BKUP\_2.

NOTE: The data set WORK.NUTRITION\_BKUP\_2 has 93249 observations and 37 variables.

NOTE: PROCEDURE SORT used (Total process time):

```

real time          0.14 seconds
user cpu time      0.05 seconds
system cpu time    0.09 seconds
memory             77373.78k
OS Memory          105104.00k
Timestamp          01/25/2024 02:23:41 PM
Step Count          37  Switch Count   5

```

Page Faults	0
Page Reclaims	18871
Page Swaps	0
Voluntary Context Switches	22
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	140560

```
351      proc sort data=Region_mapping out=Region_mapping;by State;run;
```

NOTE: There were 54 observations read from the data set WORK.REGION\_MAPPING.

NOTE: The data set WORK.REGION\_MAPPING has 54 observations and 4 variables.

NOTE: PROCEDURE SORT used (Total process time):

real time	0.00 seconds
user cpu time	0.00 seconds
system cpu time	0.00 seconds
memory	1218.31k
OS Memory	29876.00k
Timestamp	01/25/2024 02:23:41 PM
Step Count	38
Switch Count	2
Page Faults	0
Page Reclaims	150
Page Swaps	0
Voluntary Context Switches	14
Involuntary Context Switches	0
Block Input Operations	0
Block Output Operations	272

```
352
353      /* Keeping relevant features */
354      data Nutrition_bkup_3;
355      merge Nutrition_bkup_2 (rename=(LocationDesc=State YearStart=Year) IN=X) Region_mapping(IN=Y);
356      by State;
357      if X;
358
359      drop YearEnd Datasource Class Topic Data_Value_Unit Data_Value_Type Data_Value_Alt
360           Data_Value_Footnote_SymbolData_Value_FootnoteLow_Confidence_Limit
361           High_Confidence_Limit Total GeoLocation ClassID TopicID QuestionID
362           DataValueTypeID LocationIDStratificationCategoryId1 StratificationID1 LocationAbbr;
363      run;
```

NOTE: There were 93249 observations read from the data set WORK.NUTRITION\_BKUP\_2.

NOTE: There were 54 observations read from the data set WORK.REGION\_MAPPING.

NOTE: The data set WORK.NUTRITION\_BKUP\_3 has 93249 observations and 19 variables.

NOTE: DATA statement used (Total process time):

real time	0.05 seconds
user cpu time	0.02 seconds

```
system cpu time    0.04 seconds
memory            4102.31k
OS Memory         32436.00k
Timestamp         01/25/2024 02:23:41 PM
Step Count                39  Switch Count  5
Page Faults              0
Page Reclaims           589
Page Swaps              0
Voluntary Context Switches 22
Involuntary Context Switches 0
Block Input Operations   0
Block Output Operations  96528
```

```
364
365      /* Export final dataset to excel */
366      proc export data=Nutrition_bkup_3
367          outfile='/home/u59360783/Nutrition_F.xlsx'
368          dbms=xlsx
369          replace;
370          sheet="Nutrition";
371      run;
```

```
NOTE: The export data set has 93249 observations and 19 variables.
NOTE: "/home/u59360783/Nutrition_F.xlsx" file was successfully created.
NOTE: PROCEDURE EXPORT used (Total process time):
```

```
real time          4.85 seconds
user cpu time       4.83 seconds
system cpu time     0.01 seconds
memory             4818.53k
OS Memory          32052.00k
Timestamp          01/25/2024 02:23:46 PM
Step Count                40  Switch Count  5
Page Faults              0
Page Reclaims          926
Page Swaps              0
Voluntary Context Switches 82
Involuntary Context Switches 5
Block Input Operations  56
Block Output Operations 12952
```

```
372
373      OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
383
```