```
OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
NOTE: ODS statements in the SAS Studio environment may disable some output features.
           /* Generated Code (IMPORT) */
71
           /* Source File: diabetes_binary_health_indicators_BRFSS2015.csv */
72
           /* Source Path: /home/u64041732/Midterm */
73
74
           /* Code generated on: 10/9/24, 5:44 PM */
75
           proc import datafile="/home/u64041732/Midterm/diabetes_binary_5050split_health_indicators_BRFSS2015.csv"
76
               out=diabetes
77
78
               dbms=csv
               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:
                          01N0V24
86
                          Generated SAS Datastep Code
87
                TEMPLATE SOURCE: (None Specified.)
88
            89
               data WORK.DIABETES
               %let _EFIERR_ = 0; /* set the ERROR detection macro variable */
90
               infile '/home/u64041732/Midterm/diabetes_binary_5050split_health_indicators_BRFSS2015.csv' delimiter = ',' MISSOVER
91
         ! DSD lrecl=32767 firstobs=2 ;
91
92
                  informat Diabetes_binary best32.;
                  informat HighBP best32.;
93
94
95
                  informat HighChol best32.
                  informat CholCheck best32.;
                  informat BMI best32.;
96
97
                  informat Smoker best32.
98
                  informat Stroke best32.
99
                  informat HeartDiseaseorAttack best32.;
                  informat PhysActivity best32.;
100
                  informat Fruits best32.;
101
                  informat Veggies best32.;
102
                  informat HvyAlcoholConsump best32.;
103
                  informat AnyHealthcare best32.;
104
105
                  informat NoDocbcCost best32.;
                  informat GenHlth best32.;
106
                  informat MentHlth best32.;
107
                  informat PhysHlth best32.;
108
                  informat DiffWalk best32.;
109
110
                  informat Sex best32.;
                  informat Age best32.
111
112
                  informat Education best32.;
113
                  informat Income best32.;
114
                  format Diabetes_binary best12.;
                  format HighBP best12.;
115
116
                  format HighChol best12.;
117
                  format CholCheck best12.;
                  format BMI best12.;
118
119
                  format Smoker best12.;
                  format Stroke best12.
120
                  format HeartDiseaseorAttack best12.;
121
                  format PhysActivity best12.;
format Fruits best12.;
122
123
124
                  format Veggies best12.;
format HvyAlcoholConsump best12.;
125
                  format AnyHealthcare best12.;
126
                  format NoDocbcCost best12.;
127
                  format GenHlth best12.;
128
129
                  format MentHlth best12.;
130
                  format PhysHlth best12.;
131
                  format DiffWalk best12.;
132
                  format Sex best12.;
133
                  format Age best12.;
134
                  format Education best12.;
                  format Income best12.;
135
136
              input
137
                          Diabetes_binary
                          HighBP
138
                           HighChol
139
140
                           CholCheck
141
                           BMT
142
                           Smoker
143
                           Stroke
                          {\tt HeartDiseaseorAttack}
144
145
                           PhysActivity
146
                           Fruits
147
                           Veggies
148
                           HvyAlcoholConsump
149
                           AnyHealthcare
150
                           NoDocbcCost
151
                           GenHlth
```

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informat HighBP best32.;

informat Smoker best32.;
informat Stroke best32.;

informat HighChol best32.

informat CholCheck best32.;
informat BMI best32.;

181 182

183

184

185 186

```
187
                    informat Diabetes best32.;
                    informat PhysActivity best32.;
188
                    informat Fruits best32.;
189
190
                    informat Veggies best32.;
                    informat HvyAlcoholConsump best32.;
191
                    informat AnyHealthcare best32.;
192
                    informat NoDocbcCost best32.;
193
                    informat GenHlth best32.;
194
                    informat MentHlth best32.;
informat PhysHlth best32.;
195
196
                    informat DiffWalk best32.;
197
                    informat Sex best32.;
198
199
                    informat Age best32.
200
                    informat Education best32.;
201
                    informat Income best32.;
202
                    format HeartDiseaseorAttack best12.;
                    format HighBP best12.;
203
204
                    format HighChol best12.
                    format CholCheck best12.;
205
                    format BMI best12.;
format Smoker best12.;
206
207
                    format Stroke best12.
208
209
                    format Diabetes best12.
                    format PhysActivity best12.;
format Fruits best12.;
210
211
                    format Veggies best12.;
format HvyAlcoholConsump best12.;
212
213
214
                    format AnyHealthcare best12.;
215
                    format NoDocbcCost best12.;
216
                    format GenHlth best12.;
217
                    format MentHlth best12.;
218
                    format PhysHlth best12.;
219
                    format DiffWalk best12.;
220
                    format Sex best12.;
221
                    format Age best12.;
222
                    format Education best12.;
223
                    format Income best12.;
224
                 input
225
                              HeartDiseaseorAttack
226
                              HighBP
                              HighChol
227
228
                              CholCheck
229
                              BMT
230
                              Smoker
231
                              Stroke
232
                              Diabetes
233
                              PhysActivity
234
                              Fruits
235
                              Veggies
236
                              HvyAlcoholConsump
237
                              AnyHealthcare
238
                              NoDocbcCost
239
                              GenHlth
240
                              MentHlth
241
                              PhysHlth
242
                              DiffWalk
243
                              Sex
244
                              Age
245
                              Education
246
                              Income
247
                 if <code>_ERROR_</code> then call <code>symputx('_EFIERR_',1);</code> /* set <code>ERROR</code> detection macro variable */
248
249
NOTE: The infile '/home/u64041732/Midterm/heart_disease_health_indicators_BRFSS2015.csv' is:
       Filename=/home/u64041732/Midterm/heart_disease_health_indicators_BRFSS2015.csv,
       Owner Name=u64041732, Group Name=oda,
       Access Permission=-rw-r--r-
       Last Modified=090ct2024:17:43:47,
       File Size (bytes)=22738147
NOTE: 253680 records were read from the infile '/home/u64041732/Midterm/heart_disease_health_indicators_BRFSS2015.csv'. The minimum record length was 88.
       The maximum record length was 91.
NOTE: The data set WORK.HEARTDISEASE has 253680 observations and 22 variables.
NOTE: DATA statement used (Total process time):
       real time
                             0.33 seconds
                             0.32 seconds
       user cpu time
       system cpu time
                             0.02 seconds
       memory
                             10800.46k
       OS Memory
                             37664.00k
       Timestamp
                             11/01/2024 10:19:34 PM
       Step Count
                                             217 Switch Count 2
       Page Faults
       Page Reclaims
                                             225
       Page Swaps
       Voluntary Context Switches
                                             15
       Involuntary Context Switches
Block Input Operations
       Block Output Operations
                                             87568
```

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253680 rows created in WORK.HEARTDISEASE from /home/u64041732/Midterm/heart\_disease\_health\_indicators\_BRFSS2015.csv.

```
NOTE: WORK.HEARTDISEASE data set was successfully created.
NOTE: The data set WORK.HEARTDISEASE has 253680 observations and 22 variables.
NOTE: PROCEDURE IMPORT used (Total process time):
                                0.38 seconds0.35 seconds
       real time
       user cpu time
       system cpu time
                                0.02 seconds
       memory
OS Memory
                                10800.46k
                                38180.00k
       Timestamp
                                11/01/2024 10:19:34 PM
       Step Count
                                                 217 Switch Count 10
       Page Faults
                                                 0
       Page Reclaims
                                                 1510
       Page Swaps
                                                 0
        Voluntary Context Switches
                                                 85
       Involuntary Context Switches
Block Input Operations
                                                 5
       Block Output Operations
                                                 87592
250
251
              /st Sort the diabetes dataset by Age st/
252
             proc sort data=diabetes;
253
                  by age;
254
              run:
NOTE: There were 70692 observations read from the data set WORK.DIABETES. NOTE: The data set WORK.DIABETES has 70692 observations and 22 variables.
NOTE: PROCEDURE SORT used (Total process time):
       real time
                                0.03 seconds
       user cpu time
                                0.02 seconds
       system cpu time
                                0.02 seconds
                                17546.06k
       memory
OS Memory
                                47780.00k
       Timestamp
                                11/01/2024 10:19:34 PM
       Step Count
                                                 218 Switch Count 3
       Page Faults
                                                 3741
       Page Reclaims
       Page Swaps
                                                 0
       Voluntary Context Switches
                                                 16
       Involuntary Context Switches
Block Input Operations
                                                 0
       Block Output Operations
                                                 24584
255
256
              /* Sort the heartdisease dataset by Age */
257
             proc sort data=heartdisease;
258
                  by age;
259
NOTE: There were 253680 observations read from the data set WORK.HEARTDISEASE.
NOTE: The data set WORK.HEARTDISEASE has 253680 observations and 22 variables. NOTE: PROCEDURE SORT used (Total process time):
        real time
                                0.13 seconds
       user cpu time
                                0.07 seconds
       system cpu time
                                0.06 seconds
       memory
                                53837.43k
       OS Memory
                                84044.00k
                                11/01/2024 10:19:34 PM
       Timestamp
       Step Count
                                                 219 Switch Count 5
       Page Faults
       Page Reclaims
                                                 12724
       Page Swaps
        Voluntary Context Switches
                                                 19
       Involuntary Context Switches
Block Input Operations
                                                 1
       Block Output Operations
                                                 87560
260
             /* Now merge the two datasets */
data merged_data;
261
262
263
                  merge diabetes heartdisease;
264
                  by age;
265
             run:
NOTE: MERGE statement has more than one data set with repeats of BY values.
NOTE: There were 70692 observations read from the data set WORK.DIABETES.
NOTE: There were 253680 observations read from the data set WORK.HEARTDISEASE. NOTE: The data set WORK.MERGED_DATA has 253680 observations and 23 variables.
NOTE: DATA statement used (Total process time):
                                0.07 seconds
0.04 seconds
       real time
       user cpu time
       system cpu time
                                0.03 seconds
                                5489.96k
       memory
       OS Memory
                                36532.00k
```

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```
11/01/2024 10:19:34 PM
       Timestamp
       Step Count
                                             220 Switch Count 5
       Page Faults
       Page Reclaims
                                             892
       Page Swaps
                                             0
       Voluntary Context Switches
                                             20
      Involuntary Context Switches
Block Input Operations
                                             0
                                             0
       Block Output Operations
                                             91408
266
267
268
            proc contents data = diabetes;
269
NOTE: PROCEDURE CONTENTS used (Total process time):
       real time
                             0.04 seconds
                             0.04 seconds
       user cpu time
                             0.00 seconds
3287.78k
       system cpu time memory
       OS Memory
                             32688.00k
       Timestamp
                             11/01/2024 10:19:34 PM
       Step Count
Page Faults
                                             221 Switch Count 0
                                             0
       Page Reclaims
                                             283
       Page Swaps
                                             0
       Voluntary Context Switches
       Involuntary Context Switches
                                             2
       Block Input Operations
       Block Output Operations
                                             32
270
271
            proc contents data = heartdisease;
            run;
NOTE: PROCEDURE CONTENTS used (Total process time):
                             0.03 seconds
       real time
       user cpu time
                             0.04 seconds
       system cpu time memory
                             0.01 seconds
2493.56k
       OS Memory
                             32688.00k
       Timestamp
                             11/01/2024 10:19:34 PM
       Step Count
                                             222
                                                  Switch Count 0
       Page Faults
                                             0
       Page Reclaims
                                             283
       Page Swaps
       Voluntary Context Switches
       Involuntary Context Switches Block Input Operations
       Block Output Operations
                                             24
273
274
275
            /* Step 1: Assign descriptive labels to each age group */
276
277
            data categorized_data;
278
                 set merged_data;
279
280
                 /* Categorize BMI */
                 if bmi < 18.5 then nbmi = 'Underweight';
281
282
                 else if bmi <= 24.9 and bmi >= 18.5 then nbmi = 'Healthy';
283
                 else if bmi <= 29.9 and bmi >= 25 then nbmi = 'Overweight';
                 else if bmi <= 39.9 and bmi >= 30 then nbmi = 'Obese';
284
285
                 else if bmi >= 40 then nbmi = 'Severely obese';
286
287
NOTE: There were 253680 observations read from the data set WORK.MERGED_DATA. NOTE: The data set WORK.CATEGORIZED_DATA has 253680 observations and 24 variables.
NOTE: DATA statement used (Total process time):
       real time
                             0.06 seconds
       user cpu time
                             0.03 seconds
       system cpu time
                             0.03 seconds
       memory
OS Memory
                             3711.06k
                             34736.00k
       Timestamp
                             11/01/2024 10:19:34 PM
       Step Count
                                             223 Switch Count 9
       Page Faults
       Page Reclaims
                                             561
       Page Swaps
       Voluntary Context Switches
                                             34
       Involuntary Context Switches
                                             0
       Block Input Operations
       Block Output Operations
                                             99336
```

288 289

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```
290
291
            proc freq data=categorized_data;
292
                tables nbmi*Diabetes_binary / nocol nopercent norow;
293
                tables nbmi*HeartDiseaseorAttack / nocol nopercent norow;
294
NOTE: There were 253680 observations read from the data set WORK.CATEGORIZED DATA.
NOTE: PROCEDURE FREQ used (Total process time):
                           0.07 seconds0.06 seconds
      real time
      user cpu time
                           0.02 seconds
2673.96k
      system cpu time
      memory
OS Memory
                            32948.00k
      Timestamp
                            11/01/2024 10:19:34 PM
      Step Count
                                           224 Switch Count 11
      Page Faults
                                           0
      Page Reclaims
                                          376
      Page Swaps
      Voluntary Context Switches
      Involuntary Context Switches
Block Input Operations
      Block Output Operations
                                           552
295
296
            /* Step 3: Use PROC TABULATE to generate a summary table with age ranges */
297
298
            proc tabulate data=categorized_data;
299
                class nbmi;
300
                var Diabetes_binary HeartDiseaseorAttack;
301
                table nbmi, (Diabetes_binary HeartDiseaseorAttack)*(mean='Percentage') / misstext='0.0%';
302
NOTE: There were 253680 observations read from the data set WORK.CATEGORIZED_DATA.
NOTE: PROCEDURE TABULATE used (Total process time):
      real time
                            0.03 seconds
      user cpu time
                            0.04 seconds
      system cpu time
                            0.02 seconds
      memory
OS Memory
                            9553.56k
                            38344.00k
      Timestamp
                            11/01/2024 10:19:34 PM
                                           225 Switch Count 12
      Step Count
      Page Faults
                                           0
      Page Reclaims
                                           1777
      Page Swaps
      Voluntary Context Switches
                                           136
      Involuntary Context Switches
                                           0
      Block Input Operations
                                           0
      Block Output Operations
                                           544
303
304
            /* Specify the path for the RTF file */
            ods rtf file="/home/u64041732/Midterm/diabetes heart disease charts.rtf";
305
NOTE: Writing RTF Body file: /home/u64041732/Midterm/diabetes_heart_disease_charts.rtf
306
307
            /* Pie Chart for Diabetes */
            proc gchart data=categorized_data;
  where Diabetes_binary = 1; /* Select individuals with diabetes */
308
309
                pie nbmi / coutline=black
310
311
                            percent=inside
312
                            noheading
313
                            value=arrow;
314
                title "Percentage of Individuals with Diabetes by BMI Category";
315
            run;
            quit;
NOTE: There were 218334 observations read from the data set WORK.CATEGORIZED_DATA.
      WHERE Diabetes_binary=1;
NOTE: PROCEDURE GCHART used (Total process time):
                           0.40 seconds
0.35 seconds
      real time
      user cpu time
      system cpu time
                            0.05 seconds
                            18304.56k
      memory
      OS Memory
                            49840.00k
                            11/01/2024 10:19:35 PM
      Timestamp
      Step Count
                                           226 Switch Count 41
      Page Faults
      Page Reclaims
                                           8274
      Page Swaps
      Voluntary Context Switches
                                           116
      Involuntary Context Switches
      Block Input Operations
      Block Output Operations
                                           5576
317
318
            /* Pie Chart for Heart Disease */
319
            proc gchart data=categorized_data;
                where HeartDiseaseorAttack = 1; /* Select individuals with heart disease */
320
```

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```
321
                pie nbmi / coutline=black
322
                            percent=inside
323
                            .
noheading
324
                            value=arrow:
325
                title "Percentage of Individuals with Heart Disease by BMI Category";
326
            run:
327
            quit;
NOTE: There were 23893 observations read from the data set WORK.CATEGORIZED_DATA.
      WHERE HeartDiseaseorAttack=1;
NOTE: PROCEDURE GCHART used (Total process time):
      real time
                            0.25 seconds
      user cpu time
                            0.21 seconds
      system cpu time
                            0.03 seconds
      memory
                            7916.56k
      OS Memory
                            38944.00k
      Timestamp
                            11/01/2024 10:19:35 PM
      Step Count
                                           227 Switch Count 7
      Page Faults
                                           1733
      Page Reclaims
      Page Swaps
                                           0
      Voluntary Context Switches
                                           31
      Involuntary Context Switches Block Input Operations
                                           0
      Block Output Operations
                                           1104
328
329
            /* Reshape data for plotting */
330
            data plot_data;
331
                set categorized_data;
                Category = "Diabetes"
332
333
                Count = Diabetes_binary;
334
                output;
335
                Category = "Heart Disease";
336
337
                Count = HeartDiseaseorAttack;
                output;
338
339
340
                keep nbmi Category Count;
341
            run:
NOTE: There were 253680 observations read from the data set WORK.CATEGORIZED_DATA.
NOTE: The data set WORK.PLOT_DATA has 507360 observations and 3 variables.
NOTE: DATA statement used (Total process time):
      real time
                            0.05 seconds
      user cpu time
                            0.03 seconds
      system cpu time
                            0.02 seconds
      memory
                            3703.50k
                            36784.00k
      OS Memory
      Timestamp
                            11/01/2024 10:19:35 PM
      Step Count
                                           228 Switch Count 7
      Page Faults
      Page Reclaims
                                           561
      Page Swaps
                                           0
      Voluntary Context Switches
                                           24
      Involuntary Context Switches
Block Input Operations
                                           0
      Block Output Operations
                                           32008
342
343
            /* Stacked Bar Chart */
344
            proc sgplot data=plot_data;
345
                vbar Category / response=Count group=nbmi groupdisplay=stack datalabel;
                keylegend / title="BMI Category";
xaxis label="Condition";
346
347
                yaxis label="Count"
348
                title "Stacked Bar Chart of Diabetes and Heart Disease by BMI Category";
349
350
            run:
NOTE: PROCEDURE SGPLOT used (Total process time):
      real time
                            0.24 seconds
      user cpu time
                            0.15 seconds
      system cpu time
                            0.01 seconds
      memory
OS Memory
                            16797.00k
                            46768.00k
      Timestamp
                            11/01/2024 10:19:35 PM
      Step Count
                                           229 Switch Count 5
      Page Faults
      Page Reclaims
                                           3789
      Page Swaps
      Voluntary Context Switches
                                           282
      Involuntary Context Switches
Block Input Operations
                                           6
      Block Output Operations
                                           848
NOTE: There were 507360 observations read from the data set WORK.PLOT_DATA.
```

```
352
            /* Close the RTF output */
353
            ods rtf close;
354
355
356
            /* hypothesis testing - Chi-square */
357
            proc freq data=categorized_data;
358
                tables nbmi*Diabetes_binary / chisq;
359
360
            run:
NOTE: There were 253680 observations read from the data set WORK.CATEGORIZED_DATA.
NOTE: PROCEDURE FREQ used (Total process time):
                            0.07 seconds0.07 seconds
      real time
      user cpu time
      system cpu time
                             0.02 seconds
      memory
                             2603.15k
      OS Memory
                             41140.00k
       Timestamp
                             11/01/2024 10:19:36 PM
                                            230 Switch Count 7
      Step Count
      Page Faults
                                            407
      Page Reclaims
      Page Swaps
      Voluntary Context Switches
                                            34
      Involuntary Context Switches Block Input Operations
                                            3
                                            0
      Block Output Operations
                                            528
361
362
            proc freq data=categorized_data;
363
                tables nbmi*HeartDiseaseorAttack / chisq;
364
NOTE: There were 253680 observations read from the data set WORK.CATEGORIZED_DATA.
NOTE: PROCEDURE FREQ used (Total process time):
      real time
                             0.07 seconds
                            0.06 seconds
0.01 seconds
      user cpu time
      system cpu time
      memory
OS Memory
                             2473.06k
                             41140.00k
                            11/01/2024 10:19:36 PM
      Timestamp
      Step Count
                                            231 Switch Count 11
      Page Faults
                                            0
                                            376
      Page Reclaims
      Page Swaps
                                            47
      Voluntary Context Switches
      Involuntary Context Switches
                                            2
      Block Input Operations
      Block Output Operations
                                            544
365
366
            /* hypothesis testing - t-test */
367
368
            proc ttest data=categorized_data;
369
            var BMI:
370
            class Diabetes_binary;
371
            RUN;
NOTE: PROCEDURE TTEST used (Total process time):
       real time
                            6.70 seconds
      user cpu time
                             5.22 seconds
                             0.59 seconds
      system cpu time
      memory
                             29796.15k
      OS Memory
                             67048.00k
      Timestamp
                             11/01/2024 10:19:42 PM
      Step Count
                                            232 Switch Count 151
      Page Faults
      Page Reclaims
                                            61986
      Page Swaps
                                            60906
      Voluntary Context Switches
      Involuntary Context Switches
Block Input Operations
Block Output Operations
                                            60
                                            603512
372
373
374
            proc ttest data=categorized_data;
375
            var BMI;
376
            class heartdiseaseorattack;
377
            RUN;
NOTE: PROCEDURE TTEST used (Total process time):
                            6.75 seconds
5.27 seconds
      real time
      user cpu time
      {\it system}^{\stackrel{.}{.}}{\it cpu} {\it time}
                             0.64 seconds
      memory
                             31139.06k
      OS Memory
                             68372.00k
                             11/01/2024 10:19:49 PM
       Timestamp
      Step Count
                                            233 Switch Count 138
```

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```
Page Faults
                                              61950
       Page Reclaims
       Page Swaps
       Voluntary Context Switches
                                              57058
       Involuntary Context Switches
Block Input Operations
Block Output Operations
                                              76
                                              0
                                              625480
378
379
380
             proc tabulate data=categorized_data;
381
             class age nbmi;
382
             var diabetes_binary heartdiseaseorattack;
383
             table age*nbmi,(diabetes_binary heartdiseaseorattack)*(mean='Percentage')/misstext='0.0%';
384
NOTE: There were 253680 observations read from the data set WORK.CATEGORIZED_DATA.
NOTE: PROCEDURE TABULATE used (Total process time):
                             0.06 seconds
0.08 seconds
       real time
       user cpu time
       system cpu time
                              0.02 seconds
       memory
                              9787.68k
       OS Memory
Timestamp
                              47048.00k
                              11/01/2024 10:19:49 PM
       Step Count
Page Faults
                                              234 Switch Count 7
                                              0
       Page Reclaims
                                              1710
       Page Swaps
       Voluntary Context Switches
                                              214
       Involuntary Context Switches
                                              0
       Block Input Operations
                                              0
       Block Output Operations
                                              560
385
386
             /*perform logistic regression because of binary data*/
             proc logistic data=categorized_data;
   model Diabetes_binary(event='1') = BMI; /* Replace with actual variable names */
   title "Logistic Regression of Diabetes on BMI";
387
388
389
390
NOTE: PROC LOGISTIC is modeling the probability that Diabetes_binary='1'. NOTE: Convergence criterion (GCONV=1E-8) satisfied.
NOTE: There were 253680 observations read from the data set WORK.CATEGORIZED_DATA.NOTE: PROCEDURE LOGISTIC used (Total process time):
       real time
                              0.46 seconds
       user cpu time
                              0.41 seconds
       system cpu time
                              0.05 seconds
       memory
                              30064.18k
       OS Memory
                              70484.00k
       Timestamp
                              11/01/2024 10:19:50 PM
       Step Count
                                              235
                                                   Switch Count 13
       Page Faults
       Page Reclaims
                                              5085
       Page Swaps
                                              0
       Voluntary Context Switches
                                              60
       Involuntary Context Switches Block Input Operations
                                              3
       Block Output Operations
                                              46128
391
             proc logistic data=categorized_data;
392
393
                 model Diabetes_binary(event='1') = BMI age; /* Replace with actual variable names */
                 title "Logistic Regression of Diabetes with Multiple Predictors";
394
395
NOTE: PROC LOGISTIC is modeling the probability that Diabetes binary='1'.
system cpu time
                              0.05 seconds
       memory
                              32062.00k
       OS Memory
                              72468.00k
                              11/01/2024 10:19:50 PM
       Timestamp
       Step Count
                                              236 Switch Count 24
       Page Faults
                                              a
       Page Reclaims
                                              5067
       Page Swaps
                                              0
       Voluntary Context Switches
                                              78
       Involuntary Context Switches
Block Input Operations
                                              13
       Block Output Operations
                                              48688
396
397
             proc logistic data=categorized data:
398
```

model heartdiseaseorattack(event='1') = BMI age; /\* Replace with actual variable names \*/

```
399
              title "Logistic Regression of Diabetes with Multiple Predictors";
400
memory
OS Memory
                         32062.84k
                         72468.00k
      Timestamp
                         11/01/2024 10:19:51 PM
                                      237 Switch Count 24
      Step Count
      Page Faults
      Page Reclaims
                                      5067
      Page Swaps
      Voluntary Context Switches
                                      78
     Involuntary Context Switches
Block Input Operations
Block Output Operations
                                      48688
401
402
403
413
          OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
```

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