```
1          OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
SYMBOLGEN:  Macro variable _SASWSTEMP_ resolves to
            /home/u50158717/.sasstudio/.images/ba0142a0-a2d6-4c42-b01a-97e5096c
            f9ab
SYMBOLGEN:  Some characters in the above value which were subject to macro
            quoting have been unquoted for printing.
SYMBOLGEN:  Macro variable GRAPHINIT resolves to GOPTIONS RESET=ALL
            GSFNAME=_GSFNAME;
68
69         filename storage "/home/u50158717/mydata";
70         %include storage("scenic.txt");
NOTE: %INCLUDE (level 1) file STORAGE(scenic.txt) is file
      /home/u50158717/mydata/scenic.txt.
71        +  1   7.13  55.7  4.1   9.0   39.6  279  2  4  207  241  60.0

             _
             180
ERROR 180-322: Statement is not valid or it is used out of proper order.

72        +  2   8.82  58.2  1.6   3.8   51.7   80  2  2   51   52  40.0
73        +  3   8.34  56.9  2.7   8.1   74.0  107  2  3   82   54  20.0
74        +  4   8.95  53.7  5.6  18.9  122.8  147  2  4   53  148  40.0
75        +  5  11.20  56.5  5.7  34.5   88.9  180  2  1  134  151  40.0
76        +  6   9.76  50.9  5.1  21.9   97.0  150  2  2  147  106  40.0
77        +  7   9.68  57.8  4.6  16.7   79.0  186  2  3  151  129  40.0
78        +  8  11.18  45.7  5.4  60.5   85.8  640  1  2  399  360  60.0
79        +  9   8.67  48.2  4.3  24.4   90.8  182  2  3  130  118  40.0
80        + 10   8.84  56.3  6.3  29.6   82.6   85  2  1   59   66  40.0
81        + 11  11.07  53.2  4.9  28.5  122.0  768  1  1  591  656  80.0
82        + 12   8.30  57.2  4.3   6.8   83.8  167  2  3  105   59  40.0
83        + 13  12.78  56.8  7.7  46.0  116.9  322  1  1  252  349  57.1
84        + 14   7.58  56.7  3.7  20.8   88.0   97  2  2   59   79  37.1
85        + 15   9.00  56.3  4.2  14.6   76.4   72  2  3   61   38  17.1
86        + 16  11.08  50.2  5.5  18.6   63.6  387  2  3  326  405  57.1
87        + 17   8.28  48.1  4.5  26.0  101.8  108  2  4   84   73  37.1
88        + 18  11.62  53.9  6.4  25.5   99.2  133  2  1  113  101  37.1
89        + 19   9.06  52.8  4.2   6.9   75.9  134  2  2  103  125  37.1
90        + 20   9.35  53.8  4.1  15.9   80.9  833  2  3  547  519  77.1
91        + 21   7.53  42.0  4.2  23.1   98.9   95  2  4   47   49  17.1
92        + 22  10.24  49.0  4.8  36.3  112.6  195  2  2  163  170  37.1
93        + 23   9.78  52.3  5.0  17.6   95.9  270  1  1  240  198  57.1
94        + 24   9.84  62.2  4.8  12.0   82.3  600  2  3  468  497  57.1
95        + 25   9.20  52.2  4.0  17.5   71.1  298  1  4  244  236  57.1
96        + 26   8.28  49.5  3.9  12.0  113.1  546  1  2  413  436  57.1
97        + 27   9.31  47.2  4.5  30.2  101.3  170  2  1  124  173  37.1
98        + 28   8.19  52.1  3.2  10.8   59.2  176  2  1  156   88  37.1
99        + 29  11.65  54.5  4.4  18.6   96.1  248  2  1  217  189  37.1
100       + 30   9.89  50.5  4.9  17.7  103.6  167  2  2  113  106  37.1
101       + 31  11.03  49.9  5.0  19.7  102.1  318  2  1  270  335  57.1
102       + 32   9.84  53.0  5.2  17.7   72.6  210  2  2  200  239  54.3
103       + 33  11.77  54.1  5.3  17.3   56.0  196  2  1  164  165  34.3
104       + 34  13.59  54.0  6.1  24.2  111.7  312  2  1  258  169  54.3
105       + 35   9.74  54.4  6.3  11.4   76.1  221  2  2  170  172  54.3
106       + 36  10.33  55.8  5.0  21.2  104.3  266  2  1  181  149  54.3
107       + 37   9.97  58.2  2.8  16.5   76.5   90  2  2   69   42  34.3
108       + 38   7.84  49.1  4.6   7.1   87.9   60  2  3   50   45  34.3
109       + 39  10.47  53.2  4.1   5.7   69.1  196  2  2  168  153  54.3
110       + 40   8.16  60.9  1.3   1.9   58.0   73  2  3   49   21  14.3
111       + 41   8.48  51.1  3.7  12.1   92.8  166  2  3  145  118  34.3
112       + 42  10.72  53.8  4.7  23.2   94.1  113  2  3   90  107  34.3
113       + 43  11.20  45.0  3.0   7.0   78.9  130  2  3   95   56  34.3
114       + 44  10.12  51.7  5.6  14.9   79.1  362  1  3  313  264  54.3
115       + 45   8.37  50.7  5.5  15.1   84.8  115  2  2   96   88  34.3
116       + 46  10.16  54.2  4.6   8.4   51.5  831  1  4  581  629  74.3
```

```
117       + 47  19.56  59.9  6.5  17.2  113.7  306  2  1  273  172  51.4
118       + 48  10.90  57.2  5.5  10.6   71.9  593  2  2  446  211  51.4
119       + 49   7.67  51.7  1.8   2.5   40.4  106  2  3   93   35  11.4
120       + 50   8.88  51.5  4.2  10.1   86.9  305  2  3  238  197  51.4
121       + 51  11.48  57.6  5.6  20.3   82.0  252  2  1  207  251  51.4
122       + 52   9.23  51.6  4.3  11.6   42.6  620  2  2  413  420  71.4
123       + 53  11.41  61.1  7.6  16.6   97.9  535  2  3  330  273  51.4
124       + 54  12.07  43.7  7.8  52.4  105.3  157  2  2  115   76  31.4
125       + 55   8.63  54.0  3.1   8.4   56.2   76  2  1   39   44  31.4
126       + 56  11.15  56.5  3.9   7.7   73.9  281  2  1  217  199  51.4
127       + 57   7.14  59.0  3.7   2.6   75.8   70  2  4   37   35  31.4
128       + 58   7.65  47.1  4.3  16.4   65.7  318  2  4  265  314  51.4
129       + 59  10.73  50.6  3.9  19.3  101.0  445  1  2  374  345  51.4
130       + 60  11.46  56.9  4.5  15.6   97.7  191  2  3  153  132  31.4
131       + 61  10.42  58.0  3.4   8.0   59.0  119  2  1   67   64  31.4
132       + 62  11.18  51.0  5.7  18.8   55.9  595  1  2  546  392  68.6
133       + 63   7.93  64.1  5.4   7.5   98.1   68  2  4   42   49  28.6
134       + 64   9.66  52.1  4.4   9.9   98.3   83  2  2   66   95  28.6
135       + 65   7.78  45.5  5.0  20.9   71.6  489  2  3  391  329  48.6
136       + 66   9.42  50.6  4.3  24.8   62.8  508  2  1  421  528  48.6
137       + 67  10.02  49.5  4.4   8.3   93.0  265  2  2  191  202  48.6
138       + 68   8.58  55.0  3.7   7.4   95.9  304  2  3  248  218  48.6
139       + 69   9.61  52.4  4.5   6.9   87.2  487  2  3  404  220  48.6
140       + 70   8.03  54.2  3.5  24.3   87.3   97  2  1   65   55  28.6
141       + 71   7.39  51.0  4.2  14.6   88.4   72  2  2   38   67  28.6
142       + 72   7.08  52.0  2.0  12.3   56.4   87  2  3   52   57  28.6
143       + 73   9.53  51.5  5.2  15.0   65.7  298  2  3  241  193  48.6
144       + 74  10.05  52.0  4.5  36.7   87.5  184  1  1  144  151  68.6
145       + 75   8.45  38.8  3.4  12.9   85.0  235  2  2  143  124  48.6
146       + 76   6.70  48.6  4.5  13.0   80.8   76  2  4   51   79  28.6
147       + 77   8.90  49.7  2.9  12.7   86.9   52  2  1   37   35  28.6
148       + 78  10.23  53.2  4.9   9.9   77.9  752  1  2  595  446  68.6
149       + 79   8.88  55.8  4.4  14.1   76.8  237  2  2  165  182  48.6
150       + 80  10.30  59.6  5.1  27.8   88.9  175  2  2  113   73  45.7
151       + 81  10.79  44.2  2.9   2.6   56.6  461  1  2  320  196  65.7
152       + 82   7.94  49.5  3.5   6.2   92.3  195  2  2  139  116  45.7
153       + 83   7.63  52.1  5.5  11.6   61.1  197  2  4  109  110  45.7
154       + 84   8.77  54.5  4.7   5.2   47.0  143  2  4   85   87  25.7
155       + 85   8.09  56.9  1.7   7.6   56.9   92  2  3   61   61  45.7
156       + 86   9.05  51.2  4.1  20.5   79.8  195  2  3  127  112  45.7
157       + 87   7.91  52.8  2.9  11.9   79.5  477  2  3  349  188  65.7
158       + 88  10.39  54.6  4.3  14.0   88.3  353  2  2  223  200  65.7
159       + 89   9.36  54.1  4.8  18.3   90.6  165  2  1  127  158  45.7
160       + 90  11.41  50.4  5.8  23.8   73.0  424  1  3  359  335  45.7
161       + 91   8.86  51.3  2.9   9.5   87.5  100  2  3   65   53  25.7
162       + 92   8.93  56.0  2.0   6.2   72.5   95  2  3   59   56  25.7
163       + 93   8.92  53.9  1.3   2.2   79.5   56  2  2   40   14   5.7
164       + 94   8.15  54.9  5.3  12.3   79.8   99  2  4   55   71  25.7
165       + 95   9.77  50.2  5.3  15.7   89.7  154  2  2  123  148  25.7
166       + 96   8.54  56.1  2.5  27.0   82.5   98  2  1   57   75  45.7
167       + 97   8.66  52.8  3.8   6.8   69.5  246  2  3  178  177  45.7
168       + 98  12.01  52.8  4.8  10.8   96.9  298  2  1  237  115  45.7
169       + 99   7.95  51.8  2.3   4.6   54.9  163  2  3  128   93  42.9
170       +100  10.15  51.9  6.2  16.4   59.2  568  1  3  452  371  62.9
171       +101   9.76  53.2  2.6   6.9   80.1   64  2  4   47   55  22.9
172       +102   9.89  45.2  4.3  11.8  108.7  190  2  1  141  112  42.9
173       +103   7.14  57.6  2.7  13.1   92.6   92  2  4   40   50  22.9
174       +104  13.95  65.9  6.6  15.6  133.5  356  2  1  308  182  62.9
175       +105   9.44  52.5  4.5  10.9   58.5  297  2  3  230  263  42.9
176       +106  10.80  63.9  2.9   1.6   57.4  130  2  3   69   62  22.9
177       +107   7.14  51.7  1.4   4.1   45.7  115  2  3   90   19  22.9
178       +108   8.02  55.0  2.1   3.8   46.5   91  2  2   44   32  22.9
179       +109  11.80  53.8  5.7   9.1  116.9  571  1  2  441  469  62.9
180       +110   9.50  49.3  5.8  42.0   70.9   98  2  3   68   46  22.9
181       +111   7.70  56.9  4.4  12.2   67.9  129  2  4   85  136  62.9
```

```
182       +112  17.94  56.2  5.9  26.4   91.8  835  1  1  791  407  62.9
183       +113   9.41  59.5  3.1  20.6   91.7   29  2  3   20   22  22.9
184       +
185       +%firstobs(scenic,1,11);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value scenic
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 11
MLOGIC(FIRSTOBS):  Parameter NOOBS has value
SYMBOLGEN:  Macro variable DATA resolves to scenic
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 11
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=scenic(firstobs=1 obs=11) ;

MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to scenic
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 11
MPRINT(FIRSTOBS):   title2 "Data Set-scenic  Observations 1 to 11";
MPRINT(FIRSTOBS):   run;
MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
186       +
187       +
188       +
189       +%header2(### 1. LOGISTIC STEPWISE ANALYSIS ###);
MLOGIC(HEADER2):  Beginning execution.
MLOGIC(HEADER2):  Parameter HEADER has value ### 1. LOGISTIC STEPWISE ANALYSIS
      ###
MPRINT(HEADER2):   data _null_;
MPRINT(HEADER2):   file print;
SYMBOLGEN:  Macro variable HEADER resolves to ### 1. LOGISTIC STEPWISE
            ANALYSIS ###
MPRINT(HEADER2):   put "### 1. LOGISTIC STEPWISE ANALYSIS ###";
MPRINT(HEADER2):   run;


Output Added:
-------------
Name:       FilePrint27
Label:      FilePrint27
Data Name:  BatchOutput
Path:       Datastep.FilePrint27
-------------
NOTE: 1 lines were written to file PRINT.
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              948.84k
      OS Memory           26016.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        316  Switch Count  0
      Page Faults                       0
      Page Reclaims                     58
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           8


MPRINT(HEADER2):   quit;
```

```
MPRINT(HEADER2):   title;
MLOGIC(HEADER2):  Ending execution.
190       +ods trace on;
191       +ods graphics on;
192       +ods exclude
193       +Nobs
194       +where = (_path_ ? 'Step0')
195       +where = (_path_ ? 'Step1')
196       +where = (_path_ ? 'Step2')
197       +where = (_path_ ? 'Step3')
198       +where = (_path_ ? 'Step4')
199       +ROCCurve
200       +LackFitPartition
201       +influence
202       +influencePlots.'Panel 2'
203       +CalibrationPlot
204       +;
NOTE: PROCEDURE LOGISTIC used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              189.93k
      OS Memory           26016.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        317  Switch Count  0
      Page Faults                       0
      Page Reclaims                     58
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

ERROR: File WORK.SCENIC.DATA does not exist.
NOTE: The SAS System stopped processing this step because of errors.
205       +proc logistic data=scenic order=data alpha=.05 plot(only)=(influence
205      !+ roc) descending;;
206       +class region (param=ref);
207       +model School (event='1')= Stay Age Risk Culture Chest Beds
208       +              Census Nurses Facil / selection=STEPWISE
209       +              scale=none gof aggregate rsquare lackfit
210       +              clparm=both clodds=both
211       +              influence expb;
212       +output out=pred predprobs=individual xbeta=xbeta p=probability
212      !+lower=lower upper=upper
213       +           reschi=reschi resdev=resdev stdresdev=stdresdev
214       +           difchisq=difchisq difdev=difdev h=hatdiag / alpha=.05;
215       +%logisticODS;
MLOGIC(LOGISTICODS):  Beginning execution.
MPRINT(LOGISTICODS):   ods output ModelInfo=ModelInfo;
MPRINT(LOGISTICODS):   ods output Nobs=Nobs;
MPRINT(LOGISTICODS):   ods output ClassLevelInfo=ClassLevelInfo;
MPRINT(LOGISTICODS):   ods output ResponseProfile=ResponseProfile;
MPRINT(LOGISTICODS):   ods output Classification=Classification;
MPRINT(LOGISTICODS):   ods output ConvergenceStatus=ConverenceStatus;
MPRINT(LOGISTICODS):   ods output GoodnessOfFit=GoodnessOfFit;
MPRINT(LOGISTICODS):   ods output FitStatistics=FitStatistics;
MPRINT(LOGISTICODS):   ods output association=association;
MPRINT(LOGISTICODS):   ods output GlobalScore=GlobalScore;
MPRINT(LOGISTICODS):   ods output GlobalTests=GlobalTests;
MPRINT(LOGISTICODS):   ods output ParameterEstimates=ParameterEstimates;
MPRINT(LOGISTICODS):   ods output Odds Ratios=OddsRatios;
MPRINT(LOGISTICODS):   ods output CLOddsPL=CLOddsPL;
MPRINT(LOGISTICODS):   ods output CLOddsWald=CLOddsWald;
MPRINT(LOGISTICODS):   ods output CLParmPL=CLParmPL;
```

```
MPRINT(LOGISTICODS):   ods output CLParmWald=CLParmWald;
MLOGIC(LOGISTICODS):  Ending execution.
216       +run; quit;
217       +ods graphics off;
218       +*underdispersion;
219       +
220       +%firstobs(pred,1,5);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value pred
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value


SYMBOLGEN:  Macro variable DATA resolves to pred
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=pred(firstobs=1 obs=5) ;
ERROR: File WORK.PRED.DATA does not exist.
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to pred
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-pred  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              306.59k
      OS Memory           26016.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        318  Switch Count  2
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        13
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

WARNING: Output 'CLParmWald' was not created.  Make sure that the output
         object name, label, or path is spelled correctly.  Also, verify that
         the appropriate procedure options are used to produce the requested
         output object.  For example, verify that the NOPRINT option is not
         used.
WARNING: Output 'CLParmPL' was not created.  Make sure that the output object
         name, label, or path is spelled correctly.  Also, verify that the
         appropriate procedure options are used to produce the requested
         output object.  For example, verify that the NOPRINT option is not
         used.
WARNING: Output 'CLOddsWald' was not created.  Make sure that the output
         object name, label, or path is spelled correctly.  Also, verify that
         the appropriate procedure options are used to produce the requested
         output object.  For example, verify that the NOPRINT option is not
         used.
WARNING: Output 'CLOddsPL' was not created.  Make sure that the output object
         name, label, or path is spelled correctly.  Also, verify that the
         appropriate procedure options are used to produce the requested
         output object.  For example, verify that the NOPRINT option is not
         used.
WARNING: Output 'Ratios' was not created.  Make sure that the output object
         name, label, or path is spelled correctly.  Also, verify that the
```

```
          appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'Odds' was not created.  Make sure that the output object
          name, label, or path is spelled correctly.  Also, verify that the
          appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'ParameterEstimates' was not created.  Make sure that the
          output object name, label, or path is spelled correctly.  Also,
          verify that the appropriate procedure options are used to produce the
          requested output object.  For example, verify that the NOPRINT option
          is not used.
WARNING: Output 'GlobalTests' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'GlobalScore' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'association' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'FitStatistics' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'GoodnessOfFit' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'ConvergenceStatus' was not created.  Make sure that the
          output object name, label, or path is spelled correctly.  Also,
          verify that the appropriate procedure options are used to produce the
          requested output object.  For example, verify that the NOPRINT option
          is not used.
WARNING: Output 'Classification' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'ResponseProfile' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'ClassLevelInfo' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'Nobs' was not created.  Make sure that the output object
          name, label, or path is spelled correctly.  Also, verify that the
          appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'ModelInfo' was not created.  Make sure that the output object
          name, label, or path is spelled correctly.  Also, verify that the
```

```
          appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.


221       +data pred; set pred;
ERROR: File WORK.PRED.DATA does not exist.
222       +*p=ncol(xmatrix);
223       +p=6;
224       +deltaX=(reschi*reschi)/(1-hatdiag);
225       +deltaD=(resdev*resdev)/(1-hatdiag);
226       +run;

NOTE: The SAS System stopped processing this step because of errors.
WARNING: The data set WORK.PRED may be incomplete.  When this step was stopped
         there were 0 observations and 6 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              859.65k
      OS Memory           26276.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        319  Switch Count  2
      Page Faults                       0
      Page Reclaims                     88
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264



226      !+     quit; title;
227       +
228       +data predD; set pred; keep id stdresdev;
229       +%mysort4(predD,predD,stdresdev,descending,noduplicates,cancel);
MLOGIC(MYSORT4):  Beginning execution.
MLOGIC(MYSORT4):  Parameter DATA1 has value predD
MLOGIC(MYSORT4):  Parameter DATA2 has value predD
MLOGIC(MYSORT4):  Parameter BY has value stdresdev
MLOGIC(MYSORT4):  Parameter DESCENDING has value descending
MLOGIC(MYSORT4):  Parameter NODUPLICATES has value noduplicates
MLOGIC(MYSORT4):  Parameter CANCEL has value cancel

WARNING: The variable id in the DROP, KEEP, or RENAME list has never been
         referenced.
WARNING: The variable stdresdev in the DROP, KEEP, or RENAME list has never
         been referenced.
NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PREDD has 0 observations and 0 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              1070.18k
      OS Memory           26276.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        320  Switch Count  2
      Page Faults                       0
      Page Reclaims                     72
```

```
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           160


SYMBOLGEN:  Macro variable DATA1 resolves to predD
SYMBOLGEN:  Macro variable DATA2 resolves to predD
SYMBOLGEN:  Macro variable NODUPLICATES resolves to noduplicates
MPRINT(MYSORT4):   proc sort data=predD out=predD noduplicates;
SYMBOLGEN:  Macro variable DESCENDING resolves to descending
SYMBOLGEN:  Macro variable BY resolves to stdresdev
MPRINT(MYSORT4):   by descending stdresdev;
ERROR: Variable STDRESDEV not found.
MPRINT(MYSORT4):   run;

NOTE: The SAS System stopped processing this step because of errors.
WARNING: The data set WORK.PREDD may be incomplete.  When this step was
         stopped there were 0 observations and 0 variables.
WARNING: Data set WORK.PREDD was not replaced because this step was stopped.
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              558.84k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        321  Switch Count  0
      Page Faults                       0
      Page Reclaims                     15
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           16

MPRINT(MYSORT4):   quit;
SYMBOLGEN:  Macro variable CANCEL resolves to cancel
MLOGIC(MYSORT4):  %IF condition &cancel ne cancel is FALSE
MLOGIC(MYSORT4):  Ending execution.
230       +%firstobs(predD,1,5)
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value predD
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value


SYMBOLGEN:  Macro variable DATA resolves to predD
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=predD(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to predD
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-predD  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No variables in data set WORK.PREDD.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
```

```
      memory              379.18k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        322  Switch Count  2
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        14
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
231       +
232       +data predS; set pred; keep id deltaX deltaD probability; run;

WARNING: The variable id in the DROP, KEEP, or RENAME list has never been
         referenced.
WARNING: The variable probability in the DROP, KEEP, or RENAME list has never
         been referenced.
NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PREDS has 0 observations and 2 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              941.87k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        323  Switch Count  2
      Page Faults                       0
      Page Reclaims                     144
      Page Swaps                        0
      Voluntary Context Switches        10
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


233       +%mysort4(predS,predS,deltaX,descending,noduplicates,cancel);
MLOGIC(MYSORT4):  Beginning execution.
MLOGIC(MYSORT4):  Parameter DATA1 has value predS
MLOGIC(MYSORT4):  Parameter DATA2 has value predS
MLOGIC(MYSORT4):  Parameter BY has value deltaX
MLOGIC(MYSORT4):  Parameter DESCENDING has value descending
MLOGIC(MYSORT4):  Parameter NODUPLICATES has value noduplicates
MLOGIC(MYSORT4):  Parameter CANCEL has value cancel
SYMBOLGEN:  Macro variable DATA1 resolves to predS
SYMBOLGEN:  Macro variable DATA2 resolves to predS
SYMBOLGEN:  Macro variable NODUPLICATES resolves to noduplicates
MPRINT(MYSORT4):   proc sort data=predS out=predS noduplicates;
SYMBOLGEN:  Macro variable DESCENDING resolves to descending
SYMBOLGEN:  Macro variable BY resolves to deltaX
MPRINT(MYSORT4):   by descending deltaX;
MPRINT(MYSORT4):   run;

NOTE: Input data set is empty.
NOTE: 0 duplicate observations were deleted.
NOTE: The data set WORK.PREDS has 0 observations and 2 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              925.00k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        324  Switch Count  2
      Page Faults                       0
      Page Reclaims                     124
      Page Swaps                        0
      Voluntary Context Switches        11
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


MPRINT(MYSORT4):   quit;
SYMBOLGEN:  Macro variable CANCEL resolves to cancel
MLOGIC(MYSORT4):  %IF condition &cancel ne cancel is FALSE
MLOGIC(MYSORT4):  Ending execution.
234       +
235       +proc gplot data=pred;
236       +plot(deltaX deltaD)*probability;
ERROR: Variable PROBABILITY not found.
NOTE: The previous statement has been deleted.
237       +symbol color=navy h=1.25 value=dot;
238       +run;

NOTE: No observations in data set WORK.PRED.
238      !+     quit;

NOTE: PROCEDURE GPLOT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              574.93k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        325  Switch Count  1
      Page Faults                       0
      Page Reclaims                     225
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


238      !+          title;
239       +%firstobs(predS,1,5);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value predS
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=predS(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-predS  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No observations in data set WORK.PREDS.
```

```
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.01 seconds
      system cpu time     0.00 seconds
      memory              600.18k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        326  Switch Count  2
      Page Faults                       0
      Page Reclaims                     51
      Page Swaps                        0
      Voluntary Context Switches        13
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
240       +
241       +%logisticPrint2;
MLOGIC(LOGISTICPRINT2):  Beginning execution.
MPRINT(LOGISTICPRINT2):   proc print data = ModelInfo;
ERROR: File WORK.MODELINFO.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "ModelInfo";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              307.12k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        327  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = Nobs;
ERROR: File WORK.NOBS.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "Nobs";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              418.50k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        328  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        7
      Involuntary Context Switches      0
      Block Input Operations            0
```

```
      Block Output Operations          0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = ClassLevelInfo;
ERROR: File WORK.CLASSLEVELINFO.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "ClassLevelInfo";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.25k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       329  Switch Count  1
      Page Faults                      0
      Page Reclaims                    16
      Page Swaps                       0
      Voluntary Context Switches       7
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = ResponseProfile;
ERROR: File WORK.RESPONSEPROFILE.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "ResponseProfile";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.01 seconds
      system cpu time     0.00 seconds
      memory              306.37k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       330  Switch Count  1
      Page Faults                      0
      Page Reclaims                    16
      Page Swaps                       0
      Voluntary Context Switches       7
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0

MPRINT(LOGISTICPRINT2):   quit;


MPRINT(LOGISTICPRINT2):   proc print data = Classification;
ERROR: File WORK.CLASSIFICATION.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "Classification";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.00k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       331  Switch Count  1
      Page Faults                      0
```

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      Page Reclaims                    16
      Page Swaps                       0
      Voluntary Context Switches       6
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = ConvergenceStatus;
ERROR: File WORK.CONVERGENCESTATUS.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "ConvergenceStatus ";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.25k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       332  Switch Count  1
      Page Faults                      0
      Page Reclaims                    16
      Page Swaps                       0
      Voluntary Context Switches       6
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = GoodnessOfFit;
ERROR: File WORK.GOODNESSOFFIT.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "GoodnessOfFit";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              306.87k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       333  Switch Count  1
      Page Faults                      0
      Page Reclaims                    16
      Page Swaps                       0
      Voluntary Context Switches       7
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = FitStatistics;
ERROR: File WORK.FITSTATISTICS.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "FitStatistics";
MPRINT(LOGISTICPRINT2):  run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.25k
```

```
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        334  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        7
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = association;
ERROR: File WORK.ASSOCIATION.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "Association";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              418.50k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        335  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = GlobalScore;
ERROR: File WORK.GLOBALSCORE.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "GlobalScore";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.01 seconds
      system cpu time     0.00 seconds
      memory              419.00k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        336  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = GlobalTests;
ERROR: File WORK.GLOBALTESTS.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "GlobalTests";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
```

```
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.01 seconds
      memory              419.25k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        337  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        7
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = ParameterEstimates;
ERROR: File WORK.PARAMETERESTIMATES.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "ParameterEstimates";
MPRINT(LOGISTICPRINT2):  run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              418.50k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        338  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        7
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

22: LINE and COLUMN cannot be determined.
NOTE 242-205: NOSPOOL is on. Rerunning with OPTION SPOOL might allow recovery
              of the LINE and COLUMN where the error has occurred.
ERROR 22-322: Syntax error, expecting one of the following: ;, (, BLANKLINE,
              CONTENTS, DATA, DOUBLE, GRANDTOTAL_LABEL, GRANDTOT_LABEL,
              GRAND_LABEL, GTOTAL_LABEL, GTOT_LABEL, HEADING, LABEL, N, NOOBS,
              NOSUMLABEL, OBS, ROUND, ROWS, SPLIT, STYLE, SUMLABEL, UNIFORM,
              WIDTH.
202: LINE and COLUMN cannot be determined.
NOTE: NOSPOOL is on. Rerunning with OPTION SPOOL might allow recovery of the
      LINE and COLUMN where the error has occurred.
ERROR 202-322: The option or parameter is not recognized and will be ignored.
ERROR: File WORK.ODDS.DATA does not exist.
MPRINT(LOGISTICPRINT2):   proc print data = Odds Ratios title "OddsRatios";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              442.31k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        339  Switch Count  1
      Page Faults                       0
```

```
      Page Reclaims                    16
      Page Swaps                       0
      Voluntary Context Switches       6
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          8

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = CLOddsPL;
ERROR: File WORK.CLODDSPL.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "CLOddsPL";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              307.12k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       340  Switch Count  1
      Page Faults                      0
      Page Reclaims                    16
      Page Swaps                       0
      Voluntary Context Switches       6
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = CLOddsWald;
ERROR: File WORK.CLODDSWALD.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "CLOddsWald";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              306.37k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       341  Switch Count  1
      Page Faults                      0
      Page Reclaims                    16
      Page Swaps                       0
      Voluntary Context Switches       6
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = CLParmPL;
ERROR: File WORK.CLPARMPL.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "CLParmPL";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.25k
```

```
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        342  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = CLParmWald;
ERROR: File WORK.CLPARMWALD.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "CLParmWald";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.00k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        343  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        7
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;
MLOGIC(LOGISTICPRINT2):  Ending execution.
242       +
243       +%header2(### 2. REDUCED LOGISTIC MODEL WITH UNDERDISPERSION
243      !+CORRECTION ###);
MLOGIC(HEADER2):  Beginning execution.
MLOGIC(HEADER2):  Parameter HEADER has value ### 2. REDUCED LOGISTIC MODEL
      WITH UNDERDISPERSION CORRECTION ###


MPRINT(HEADER2):   data _null_;
MPRINT(HEADER2):   file print;
SYMBOLGEN:  Macro variable HEADER resolves to ### 2. REDUCED LOGISTIC MODEL
            WITH UNDERDISPERSION CORRECTION ###
MPRINT(HEADER2):   put "### 2. REDUCED LOGISTIC MODEL WITH UNDERDISPERSION
CORRECTION ###";
MPRINT(HEADER2):   run;


Output Added:
-------------
Name:       FilePrint28
Label:      CLParmWald
Data Name:  BatchOutput
Path:       Datastep.FilePrint28
-------------
NOTE: 1 lines were written to file PRINT.
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                  732.62k
      OS Memory               26272.00k
      Timestamp               08/05/2021 08:29:35 PM
      Step Count                        344  Switch Count  0
      Page Faults                       0
      Page Reclaims                     26
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


MPRINT(HEADER2):   quit;
MPRINT(HEADER2):   title;
MLOGIC(HEADER2):  Ending execution.
244       +ods text="scale=square root of phi = sqrt(.29731)=.54526";
245       +ods graphics on;
246       +ods exclude
247       +Nobs
248       +LackFitPartition
249       +influence
250       +influencePlots.'Panel 2'
251       +CalibrationPlot
252       +;
NOTE: PROCEDURE LOGISTIC used (Total process time):
      real time               0.00 seconds
      user cpu time           0.00 seconds
      system cpu time         0.00 seconds
      memory                  189.43k
      OS Memory               26272.00k
      Timestamp               08/05/2021 08:29:35 PM
      Step Count                        345  Switch Count  0
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

ERROR: File WORK.SCENIC.DATA does not exist.
NOTE: The SAS System stopped processing this step because of errors.
253       +proc logistic data=scenic order=data alpha=.05 plot(only)=(influence
253      !+ roc) descending;
254       +class region (param=ref);
255       +model School (event='1')= Age Culture Beds
256       +              Census Facil /
257       +              scale=.54526 aggregate
258       +              rsquare lackfit
259       +              clparm=both clodds=both
260       +              influence expb;
261       +output out=pred predprobs=individual xbeta=xbeta p=probability
261      !+lower=lower upper=upper
262       +           reschi=reschi resdev=resdev stdresdev=stdresdev
263       +           difchisq=difchisq difdev=difdev h=hatdiag / alpha=.05;
264       +run; quit;
265       +ods graphics off;
266       +*underdispersion correction was made;
267       +*compare -2LogL(Saturated Model w and wo scale=.54526) and
267      !+-2LogL(ReducedUnderdispersion corrected Model);
268       +


269       +data pred; set pred;
```

```
270       +*p=ncol(xmatrix);
271       +p=6;
272       +deltaX=(reschi*reschi)/(1-hatdiag);
273       +deltaD=(resdev*resdev)/(1-hatdiag);
274       +run;

NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PRED has 0 observations and 6 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              942.90k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        346  Switch Count  2
      Page Faults                       0
      Page Reclaims                     123
      Page Swaps                        0
      Voluntary Context Switches        11
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


274      !+     quit; title;
275       +
276       +data predD; set pred; keep id stdresdev;
277       +%mysort4(predD,predD,stdresdev,descending,noduplicates,cancel);
MLOGIC(MYSORT4):  Beginning execution.
MLOGIC(MYSORT4):  Parameter DATA1 has value predD
MLOGIC(MYSORT4):  Parameter DATA2 has value predD
MLOGIC(MYSORT4):  Parameter BY has value stdresdev
MLOGIC(MYSORT4):  Parameter DESCENDING has value descending
MLOGIC(MYSORT4):  Parameter NODUPLICATES has value noduplicates
MLOGIC(MYSORT4):  Parameter CANCEL has value cancel

WARNING: The variable id in the DROP, KEEP, or RENAME list has never been
         referenced.
WARNING: The variable stdresdev in the DROP, KEEP, or RENAME list has never
         been referenced.
NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PREDD has 0 observations and 0 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              926.00k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        347  Switch Count  2
      Page Faults                       0
      Page Reclaims                     58
      Page Swaps                        0
      Voluntary Context Switches        10
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           160


SYMBOLGEN:  Macro variable DATA1 resolves to predD
SYMBOLGEN:  Macro variable DATA2 resolves to predD
SYMBOLGEN:  Macro variable NODUPLICATES resolves to noduplicates
MPRINT(MYSORT4):   proc sort data=predD out=predD noduplicates;
SYMBOLGEN:  Macro variable DESCENDING resolves to descending
```

```
SYMBOLGEN:  Macro variable BY resolves to stdresdev
MPRINT(MYSORT4):   by descending stdresdev;
ERROR: Variable STDRESDEV not found.
MPRINT(MYSORT4):   run;

NOTE: The SAS System stopped processing this step because of errors.
WARNING: The data set WORK.PREDD may be incomplete.  When this step was
         stopped there were 0 observations and 0 variables.
WARNING: Data set WORK.PREDD was not replaced because this step was stopped.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.01 seconds
      system cpu time     0.00 seconds
      memory              559.84k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        348  Switch Count  0
      Page Faults                       0
      Page Reclaims                     15
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           8

MPRINT(MYSORT4):   quit;
SYMBOLGEN:  Macro variable CANCEL resolves to cancel
MLOGIC(MYSORT4):  %IF condition &cancel ne cancel is FALSE
MLOGIC(MYSORT4):  Ending execution.
278       +%firstobs(predD,1,5);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value predD
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value


SYMBOLGEN:  Macro variable DATA resolves to predD
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=predD(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to predD
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-predD  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No variables in data set WORK.PREDD.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              378.21k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        349  Switch Count  2
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        15
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0
```

```
MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
279       +
280       +data predS; set pred; keep id deltaX deltaD; run;

WARNING: The variable id in the DROP, KEEP, or RENAME list has never been
         referenced.
NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PREDS has 0 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              940.81k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        350  Switch Count  2
      Page Faults                       0
      Page Reclaims                     122
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


281       +%mysort4(predS,predS,deltaX,descending,noduplicates,cancel);
MLOGIC(MYSORT4):  Beginning execution.
MLOGIC(MYSORT4):  Parameter DATA1 has value predS
MLOGIC(MYSORT4):  Parameter DATA2 has value predS
MLOGIC(MYSORT4):  Parameter BY has value deltaX
MLOGIC(MYSORT4):  Parameter DESCENDING has value descending
MLOGIC(MYSORT4):  Parameter NODUPLICATES has value noduplicates
MLOGIC(MYSORT4):  Parameter CANCEL has value cancel
SYMBOLGEN:  Macro variable DATA1 resolves to predS
SYMBOLGEN:  Macro variable DATA2 resolves to predS
SYMBOLGEN:  Macro variable NODUPLICATES resolves to noduplicates
MPRINT(MYSORT4):   proc sort data=predS out=predS noduplicates;
SYMBOLGEN:  Macro variable DESCENDING resolves to descending
SYMBOLGEN:  Macro variable BY resolves to deltaX
MPRINT(MYSORT4):   by descending deltaX;
MPRINT(MYSORT4):   run;

NOTE: Input data set is empty.
NOTE: 0 duplicate observations were deleted.
NOTE: The data set WORK.PREDS has 0 observations and 2 variables.
NOTE: PROCEDURE SORT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.01 seconds
      system cpu time     0.00 seconds
      memory              925.00k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        351  Switch Count  2
      Page Faults                       0
      Page Reclaims                     113
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264
```

```
MPRINT(MYSORT4):   quit;
SYMBOLGEN:  Macro variable CANCEL resolves to cancel
MLOGIC(MYSORT4):  %IF condition &cancel ne cancel is FALSE
MLOGIC(MYSORT4):  Ending execution.
282       +
283       +proc gplot data=pred;
284       +plot(deltaX deltaD)*probability;
ERROR: Variable PROBABILITY not found.
NOTE: The previous statement has been deleted.
285       +symbol color=navy h=1.25 value=dot;
286       +run;

NOTE: No observations in data set WORK.PRED.
286      !+     quit;

NOTE: PROCEDURE GPLOT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              563.43k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        352  Switch Count  1
      Page Faults                       0
      Page Reclaims                     48
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


286      !+           title;
287       +
288       +%firstobs(predS,1,5);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value predS
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=predS(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-predS  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No observations in data set WORK.PREDS.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              600.50k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        353  Switch Count  2
      Page Faults                       0
      Page Reclaims                     50
      Page Swaps                        0
      Voluntary Context Switches        14
      Involuntary Context Switches      0
```

```
      Block Input Operations           0
      Block Output Operations          0


MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
289       +
290       +
291       +
292       +%header2(### 3. SATURATED LOGISTIC MODEL WITH UNDERDISPERSION
292      !+CORRECTION);
MLOGIC(HEADER2):  Beginning execution.
MLOGIC(HEADER2):  Parameter HEADER has value ### 3. SATURATED LOGISTIC MODEL
      WITH UNDERDISPERSION CORRECTION
MPRINT(HEADER2):   data _null_;
MPRINT(HEADER2):   file print;
SYMBOLGEN:  Macro variable HEADER resolves to ### 3. SATURATED LOGISTIC MODEL
            WITH UNDERDISPERSION CORRECTION
MPRINT(HEADER2):   put "### 3. SATURATED LOGISTIC MODEL WITH UNDERDISPERSION
CORRECTION";
MPRINT(HEADER2):   run;


Output Added:
-------------
Name:       FilePrint29
Label:      FilePrint29
Data Name:  BatchOutput
Path:       Datastep.FilePrint29
-------------
NOTE: 1 lines were written to file PRINT.
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              588.28k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       354  Switch Count  0
      Page Faults                      0
      Page Reclaims                    27
      Page Swaps                       0
      Voluntary Context Switches       0
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0


MPRINT(HEADER2):   quit;
MPRINT(HEADER2):   title;
MLOGIC(HEADER2):  Ending execution.
293       +ods text="All predictors stay in, scale=.54526 is included";
294       +ods graphics on;
295       +ods exclude
296       +Nobs
297       +ROCCurve
298       +LackFitPartition
299       +influence
300       +influencePlots.'Panel 2'
301       +;
NOTE: PROCEDURE LOGISTIC used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
```

```
      memory                    189.75k
      OS Memory                 26272.00k
      Timestamp                 08/05/2021 08:29:35 PM
      Step Count                        355  Switch Count  0
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

ERROR: File WORK.SCENIC.DATA does not exist.
NOTE: The SAS System stopped processing this step because of errors.
302       +proc logistic data=scenic order=data alpha=.05 plot(only)=(influence
302      !+ roc) descending;
303       +class region (param=ref);
304       +model School (event='1')= Stay Age Risk Culture Chest Beds
305       +              Census Nurses Facil  /
306       +              scale=.54526 aggregate
307       +              rsquare lackfit
308       +              clparm=both clodds=both
309       +              influence expb;
310       +output out=pred predprobs=individual xbeta=xbeta p=probability
310      !+lower=lower upper=upper
311       +           reschi=reschi resdev=resdev stdresdev=stdresdev
312       +           difchisq=difchisq difdev=difdev h=hatdiag / alpha=.05;
313       +run; quit;
314       +ods graphics off;
315       +*underdispersion correction was made;
316       +*compare -2LogL(Saturated Modelw and wo scale=.54526) and
316      !+-2LogL(ReducedUnderdispersion corrected Model);
317       +*as a check compute scaled deviance ratio (Dev/Df)/phi;
318       +*(D/df)/phi = .2896/.54526;
319       +*output states that actual phi used = .29731 so (D/df)/phi = .2896 /
319      !+ .29731 ~ 1;
320       +


321       +data pred; set pred;
322       +*p=ncol(xmatrix);
323       +p=6;
324       +deltaX=(reschi*reschi)/(1-hatdiag);
325       +deltaD=(resdev*resdev)/(1-hatdiag);
326       +run;

NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PRED has 0 observations and 6 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                    942.90k
      OS Memory                 26792.00k
      Timestamp                 08/05/2021 08:29:35 PM
      Step Count                        356  Switch Count  2
      Page Faults                       0
      Page Reclaims                     123
      Page Swaps                        0
      Voluntary Context Switches        12
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264
```

```
326      !+     quit; title;
327       +
328       +data predS; set pred; keep id deltaX deltaD; run;

WARNING: The variable id in the DROP, KEEP, or RENAME list has never been
         referenced.
NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PREDS has 0 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              940.81k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        357  Switch Count  2
      Page Faults                       0
      Page Reclaims                     122
      Page Swaps                        0
      Voluntary Context Switches        11
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


329       +%mysort4(predS,predS,deltaX,descending,noduplicates,cancel);
MLOGIC(MYSORT4):  Beginning execution.
MLOGIC(MYSORT4):  Parameter DATA1 has value predS
MLOGIC(MYSORT4):  Parameter DATA2 has value predS
MLOGIC(MYSORT4):  Parameter BY has value deltaX
MLOGIC(MYSORT4):  Parameter DESCENDING has value descending
MLOGIC(MYSORT4):  Parameter NODUPLICATES has value noduplicates
MLOGIC(MYSORT4):  Parameter CANCEL has value cancel
SYMBOLGEN:  Macro variable DATA1 resolves to predS
SYMBOLGEN:  Macro variable DATA2 resolves to predS
SYMBOLGEN:  Macro variable NODUPLICATES resolves to noduplicates
MPRINT(MYSORT4):   proc sort data=predS out=predS noduplicates;
SYMBOLGEN:  Macro variable DESCENDING resolves to descending
SYMBOLGEN:  Macro variable BY resolves to deltaX
MPRINT(MYSORT4):   by descending deltaX;
MPRINT(MYSORT4):   run;

NOTE: Input data set is empty.
NOTE: 0 duplicate observations were deleted.
NOTE: The data set WORK.PREDS has 0 observations and 2 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              924.96k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        358  Switch Count  2
      Page Faults                       0
      Page Reclaims                     113
      Page Swaps                        0
      Voluntary Context Switches        11
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


MPRINT(MYSORT4):   quit;
SYMBOLGEN:  Macro variable CANCEL resolves to cancel
MLOGIC(MYSORT4):  %IF condition &cancel ne cancel is FALSE
```

```
MLOGIC(MYSORT4):  Ending execution.
330       +
331       +proc gplot data=pred;
332       +plot(deltaX deltaD)*probability;
ERROR: Variable PROBABILITY not found.
NOTE: The previous statement has been deleted.
333       +symbol color=navy h=1.25 value=dot;
334       +run;

NOTE: No observations in data set WORK.PRED.
334      !+     quit;

NOTE: PROCEDURE GPLOT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.01 seconds
      system cpu time     0.00 seconds
      memory              563.43k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        359  Switch Count  1
      Page Faults                       0
      Page Reclaims                     48
      Page Swaps                        0
      Voluntary Context Switches        10
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


334      !+           title;
335       +
336       +%firstobs(predS,1,5);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value predS
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=predS(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-predS  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No observations in data set WORK.PREDS.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              599.53k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        360  Switch Count  2
      Page Faults                       0
      Page Reclaims                     50
      Page Swaps                        0
      Voluntary Context Switches        13
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0
```

```
MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
337       +
338       +
339       +
340       +%header2(### 4. SATURATED MODEL to get -2 LogL ###);
MLOGIC(HEADER2):  Beginning execution.
MLOGIC(HEADER2):  Parameter HEADER has value ### 4. SATURATED MODEL to get -2
      LogL ###
MPRINT(HEADER2):   data _null_;
MPRINT(HEADER2):   file print;
SYMBOLGEN:  Macro variable HEADER resolves to ### 4. SATURATED MODEL to get -2
            LogL ###
MPRINT(HEADER2):   put "### 4. SATURATED MODEL to get -2 LogL ###";
MPRINT(HEADER2):   run;


Output Added:
-------------
Name:       FilePrint30
Label:      FilePrint30
Data Name:  BatchOutput
Path:       Datastep.FilePrint30
-------------
NOTE: 1 lines were written to file PRINT.
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              554.43k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        361  Switch Count  0
      Page Faults                       0
      Page Reclaims                     28
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


MPRINT(HEADER2):   quit;
MPRINT(HEADER2):   title;
MLOGIC(HEADER2):  Ending execution.
341       +ods graphics on;
342       +ods exclude
343       +Nobs
344       +ROCCurve
345       +LackFitPartition
346       +influence
347       +InfluencePlots.'Panel 1'
348       +influencePlots.'Panel 2'
349       +;
NOTE: PROCEDURE LOGISTIC used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              189.43k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        362  Switch Count  0
      Page Faults                       0
```

```
      Page Reclaims                    16
      Page Swaps                       0
      Voluntary Context Switches       0
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0

ERROR: File WORK.SCENIC.DATA does not exist.
NOTE: The SAS System stopped processing this step because of errors.
350       +proc logistic data=scenic order=data alpha=.05 plot(only)=(influence
350      !+ roc) descending;
351       +class region (param=ref);
352       +model School (event='1')= Age Culture Beds
353       +              Census Facil /
354       +              scale=NONE aggregate
355       +              rsquare lackfit
356       +              clparm=both clodds=both
357       +              influence expb;
358       +output out=pred predprobs=individual xbeta=xbeta p=probability
358      !+lower=lower upper=upper
359       +           reschi=reschi resdev=resdev stdresdev=stdresdev
360       +           difchisq=difchisq difdev=difdev h=hatdiag / alpha=.05;
361       +run; quit;
362       +ods graphics off;
363       +
364       +%timetrak2;
MLOGIC(TIMETRAK2):  Beginning execution.
MPRINT(TIMETRAK2):   title;

MPRINT(TIMETRAK2):   data timetrak;
MPRINT(TIMETRAK2):   set timetrak;
ERROR: File WORK.TIMETRAK.DATA does not exist.
MPRINT(TIMETRAK2):   time2=time();
MPRINT(TIMETRAK2):   Xtime=(time2-time1)/60;
MPRINT(TIMETRAK2):   file print;
MPRINT(TIMETRAK2):   put _page_ ;
MPRINT(TIMETRAK2):   put // "Total Execution Time is " xtime 5.3 " Minutes";
MPRINT(TIMETRAK2):   run;

NOTE: The SAS System stopped processing this step because of errors.
WARNING: The data set WORK.TIMETRAK may be incomplete.  When this step was
         stopped there were 0 observations and 3 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              749.00k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       363  Switch Count  2
      Page Faults                      0
      Page Reclaims                    88
      Page Swaps                       0
      Voluntary Context Switches       9
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          272


MPRINT(TIMETRAK2):   proc datasets nolist;
MPRINT(TIMETRAK2):   delete timetrak;
MPRINT(TIMETRAK2):   run;
NOTE: Deleting WORK.TIMETRAK (memtype=DATA).
MPRINT(TIMETRAK2):   quit;
NOTE: PROCEDURE DATASETS used (Total process time):
```

```
      real time           0.00 seconds
      user cpu time       0.01 seconds
      system cpu time     0.00 seconds
      memory              617.78k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        364  Switch Count  2
      Page Faults                       0
      Page Reclaims                     53
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           8


MLOGIC(TIMETRAK2):  Ending execution.
365       +
366       +
367       +
NOTE: %INCLUDE (level 1) ending.
368        *tries to include other files from another home directory?;
369        %inc storage("scenic.txt");
NOTE: %INCLUDE (level 1) file STORAGE(scenic.txt) is file
      /home/u50158717/mydata/scenic.txt.
370       +  1   7.13  55.7  4.1   9.0   39.6  279  2  4  207  241  60.0

             _
             180
ERROR 180-322: Statement is not valid or it is used out of proper order.
371       +  2   8.82  58.2  1.6   3.8   51.7   80  2  2   51   52  40.0
372       +  3   8.34  56.9  2.7   8.1   74.0  107  2  3   82   54  20.0
373       +  4   8.95  53.7  5.6  18.9  122.8  147  2  4   53  148  40.0
374       +  5  11.20  56.5  5.7  34.5   88.9  180  2  1  134  151  40.0
375       +  6   9.76  50.9  5.1  21.9   97.0  150  2  2  147  106  40.0
376       +  7   9.68  57.8  4.6  16.7   79.0  186  2  3  151  129  40.0
377       +  8  11.18  45.7  5.4  60.5   85.8  640  1  2  399  360  60.0
378       +  9   8.67  48.2  4.3  24.4   90.8  182  2  3  130  118  40.0
379       + 10   8.84  56.3  6.3  29.6   82.6   85  2  1   59   66  40.0
380       + 11  11.07  53.2  4.9  28.5  122.0  768  1  1  591  656  80.0
381       + 12   8.30  57.2  4.3   6.8   83.8  167  2  3  105   59  40.0
382       + 13  12.78  56.8  7.7  46.0  116.9  322  1  1  252  349  57.1
383       + 14   7.58  56.7  3.7  20.8   88.0   97  2  2   59   79  37.1
384       + 15   9.00  56.3  4.2  14.6   76.4   72  2  3   61   38  17.1
385       + 16  11.08  50.2  5.5  18.6   63.6  387  2  3  326  405  57.1
386       + 17   8.28  48.1  4.5  26.0  101.8  108  2  4   84   73  37.1
387       + 18  11.62  53.9  6.4  25.5   99.2  133  2  1  113  101  37.1
388       + 19   9.06  52.8  4.2   6.9   75.9  134  2  2  103  125  37.1
389       + 20   9.35  53.8  4.1  15.9   80.9  833  2  3  547  519  77.1
390       + 21   7.53  42.0  4.2  23.1   98.9   95  2  4   47   49  17.1
391       + 22  10.24  49.0  4.8  36.3  112.6  195  2  2  163  170  37.1
392       + 23   9.78  52.3  5.0  17.6   95.9  270  1  1  240  198  57.1
393       + 24   9.84  62.2  4.8  12.0   82.3  600  2  3  468  497  57.1
394       + 25   9.20  52.2  4.0  17.5   71.1  298  1  4  244  236  57.1
395       + 26   8.28  49.5  3.9  12.0  113.1  546  1  2  413  436  57.1
396       + 27   9.31  47.2  4.5  30.2  101.3  170  2  1  124  173  37.1
397       + 28   8.19  52.1  3.2  10.8   59.2  176  2  1  156   88  37.1
398       + 29  11.65  54.5  4.4  18.6   96.1  248  2  1  217  189  37.1
399       + 30   9.89  50.5  4.9  17.7  103.6  167  2  2  113  106  37.1
400       + 31  11.03  49.9  5.0  19.7  102.1  318  2  1  270  335  57.1
401       + 32   9.84  53.0  5.2  17.7   72.6  210  2  2  200  239  54.3
402       + 33  11.77  54.1  5.3  17.3   56.0  196  2  1  164  165  34.3
403       + 34  13.59  54.0  6.1  24.2  111.7  312  2  1  258  169  54.3
404       + 35   9.74  54.4  6.3  11.4   76.1  221  2  2  170  172  54.3
405       + 36  10.33  55.8  5.0  21.2  104.3  266  2  1  181  149  54.3
406       + 37   9.97  58.2  2.8  16.5   76.5   90  2  2   69   42  34.3
```

407	+ 38	7.84	49.1	4.6	7.1	87.9	60	2	3	50	45	34.3
408	+ 39	10.47	53.2	4.1	5.7	69.1	196	2	2	168	153	54.3
409	+ 40	8.16	60.9	1.3	1.9	58.0	73	2	3	49	21	14.3
410	+ 41	8.48	51.1	3.7	12.1	92.8	166	2	3	145	118	34.3
411	+ 42	10.72	53.8	4.7	23.2	94.1	113	2	3	90	107	34.3
412	+ 43	11.20	45.0	3.0	7.0	78.9	130	2	3	95	56	34.3
413	+ 44	10.12	51.7	5.6	14.9	79.1	362	1	3	313	264	54.3
414	+ 45	8.37	50.7	5.5	15.1	84.8	115	2	2	96	88	34.3
415	+ 46	10.16	54.2	4.6	8.4	51.5	831	1	4	581	629	74.3
416	+ 47	19.56	59.9	6.5	17.2	113.7	306	2	1	273	172	51.4
417	+ 48	10.90	57.2	5.5	10.6	71.9	593	2	2	446	211	51.4
418	+ 49	7.67	51.7	1.8	2.5	40.4	106	2	3	93	35	11.4
419	+ 50	8.88	51.5	4.2	10.1	86.9	305	2	3	238	197	51.4
420	+ 51	11.48	57.6	5.6	20.3	82.0	252	2	1	207	251	51.4
421	+ 52	9.23	51.6	4.3	11.6	42.6	620	2	2	413	420	71.4
422	+ 53	11.41	61.1	7.6	16.6	97.9	535	2	3	330	273	51.4
423	+ 54	12.07	43.7	7.8	52.4	105.3	157	2	2	115	76	31.4
424	+ 55	8.63	54.0	3.1	8.4	56.2	76	2	1	39	44	31.4
425	+ 56	11.15	56.5	3.9	7.7	73.9	281	2	1	217	199	51.4
426	+ 57	7.14	59.0	3.7	2.6	75.8	70	2	4	37	35	31.4
427	+ 58	7.65	47.1	4.3	16.4	65.7	318	2	4	265	314	51.4
428	+ 59	10.73	50.6	3.9	19.3	101.0	445	1	2	374	345	51.4
429	+ 60	11.46	56.9	4.5	15.6	97.7	191	2	3	153	132	31.4
430	+ 61	10.42	58.0	3.4	8.0	59.0	119	2	1	67	64	31.4
431	+ 62	11.18	51.0	5.7	18.8	55.9	595	1	2	546	392	68.6
432	+ 63	7.93	64.1	5.4	7.5	98.1	68	2	4	42	49	28.6
433	+ 64	9.66	52.1	4.4	9.9	98.3	83	2	2	66	95	28.6
434	+ 65	7.78	45.5	5.0	20.9	71.6	489	2	3	391	329	48.6
435	+ 66	9.42	50.6	4.3	24.8	62.8	508	2	1	421	528	48.6
436	+ 67	10.02	49.5	4.4	8.3	93.0	265	2	2	191	202	48.6
437	+ 68	8.58	55.0	3.7	7.4	95.9	304	2	3	248	218	48.6
438	+ 69	9.61	52.4	4.5	6.9	87.2	487	2	3	404	220	48.6
439	+ 70	8.03	54.2	3.5	24.3	87.3	97	2	1	65	55	28.6
440	+ 71	7.39	51.0	4.2	14.6	88.4	72	2	2	38	67	28.6
441	+ 72	7.08	52.0	2.0	12.3	56.4	87	2	3	52	57	28.6
442	+ 73	9.53	51.5	5.2	15.0	65.7	298	2	3	241	193	48.6
443	+ 74	10.05	52.0	4.5	36.7	87.5	184	1	1	144	151	68.6
444	+ 75	8.45	38.8	3.4	12.9	85.0	235	2	2	143	124	48.6
445	+ 76	6.70	48.6	4.5	13.0	80.8	76	2	4	51	79	28.6
446	+ 77	8.90	49.7	2.9	12.7	86.9	52	2	1	37	35	28.6
447	+ 78	10.23	53.2	4.9	9.9	77.9	752	1	2	595	446	68.6
448	+ 79	8.88	55.8	4.4	14.1	76.8	237	2	2	165	182	48.6
449	+ 80	10.30	59.6	5.1	27.8	88.9	175	2	2	113	73	45.7
450	+ 81	10.79	44.2	2.9	2.6	56.6	461	1	2	320	196	65.7
451	+ 82	7.94	49.5	3.5	6.2	92.3	195	2	2	139	116	45.7
452	+ 83	7.63	52.1	5.5	11.6	61.1	197	2	4	109	110	45.7
453	+ 84	8.77	54.5	4.7	5.2	47.0	143	2	4	85	87	25.7
454	+ 85	8.09	56.9	1.7	7.6	56.9	92	2	3	61	61	45.7
455	+ 86	9.05	51.2	4.1	20.5	79.8	195	2	3	127	112	45.7
456	+ 87	7.91	52.8	2.9	11.9	79.5	477	2	3	349	188	65.7
457	+ 88	10.39	54.6	4.3	14.0	88.3	353	2	2	223	200	65.7
458	+ 89	9.36	54.1	4.8	18.3	90.6	165	2	1	127	158	45.7
459	+ 90	11.41	50.4	5.8	23.8	73.0	424	1	3	359	335	45.7
460	+ 91	8.86	51.3	2.9	9.5	87.5	100	2	3	65	53	25.7
461	+ 92	8.93	56.0	2.0	6.2	72.5	95	2	3	59	56	25.7
462	+ 93	8.92	53.9	1.3	2.2	79.5	56	2	2	40	14	5.7
463	+ 94	8.15	54.9	5.3	12.3	79.8	99	2	4	55	71	25.7
464	+ 95	9.77	50.2	5.3	15.7	89.7	154	2	2	123	148	25.7
465	+ 96	8.54	56.1	2.5	27.0	82.5	98	2	1	57	75	45.7
466	+ 97	8.66	52.8	3.8	6.8	69.5	246	2	3	178	177	45.7
467	+ 98	12.01	52.8	4.8	10.8	96.9	298	2	1	237	115	45.7
468	+ 99	7.95	51.8	2.3	4.6	54.9	163	2	3	128	93	42.9
469	+100	10.15	51.9	6.2	16.4	59.2	568	1	3	452	371	62.9
470	+101	9.76	53.2	2.6	6.9	80.1	64	2	4	47	55	22.9
471	+102	9.89	45.2	4.3	11.8	108.7	190	2	1	141	112	42.9

```
472       +103   7.14  57.6  2.7  13.1   92.6   92  2  4   40   50  22.9
473       +104  13.95  65.9  6.6  15.6  133.5  356  2  1  308  182  62.9
474       +105   9.44  52.5  4.5  10.9   58.5  297  2  3  230  263  42.9
475       +106  10.80  63.9  2.9   1.6   57.4  130  2  3   69   62  22.9
476       +107   7.14  51.7  1.4   4.1   45.7  115  2  3   90   19  22.9
477       +108   8.02  55.0  2.1   3.8   46.5   91  2  2   44   32  22.9
478       +109  11.80  53.8  5.7   9.1  116.9  571  1  2  441  469  62.9
479       +110   9.50  49.3  5.8  42.0   70.9   98  2  3   68   46  22.9
480       +111   7.70  56.9  4.4  12.2   67.9  129  2  4   85  136  62.9
481       +112  17.94  56.2  5.9  26.4   91.8  835  1  1  791  407  62.9
482       +113   9.41  59.5  3.1  20.6   91.7   29  2  3   20   22  22.9
483       +
484       +%firstobs(scenic,1,11);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value scenic
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 11
MLOGIC(FIRSTOBS):  Parameter NOOBS has value
SYMBOLGEN:  Macro variable DATA resolves to scenic
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 11
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=scenic(firstobs=1 obs=11) ;

MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to scenic
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 11
MPRINT(FIRSTOBS):   title2 "Data Set-scenic  Observations 1 to 11";
MPRINT(FIRSTOBS):   run;
MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
485       +
486       +
487       +
488       +%header2(### 1. LOGISTIC STEPWISE ANALYSIS ###);
MLOGIC(HEADER2):  Beginning execution.
MLOGIC(HEADER2):  Parameter HEADER has value ### 1. LOGISTIC STEPWISE ANALYSIS
      ###
MPRINT(HEADER2):   data _null_;
MPRINT(HEADER2):   file print;
SYMBOLGEN:  Macro variable HEADER resolves to ### 1. LOGISTIC STEPWISE
            ANALYSIS ###
MPRINT(HEADER2):   put "### 1. LOGISTIC STEPWISE ANALYSIS ###";
MPRINT(HEADER2):   run;


Output Added:
-------------
Name:       FilePrint31
Label:      FilePrint31
Data Name:  BatchOutput
Path:       Datastep.FilePrint31
-------------
NOTE: 1 lines were written to file PRINT.
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              580.62k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        365  Switch Count  0
      Page Faults                       0
```

```
      Page Reclaims                    26
      Page Swaps                       0
      Voluntary Context Switches       0
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0


MPRINT(HEADER2):   quit;
MPRINT(HEADER2):   title;
MLOGIC(HEADER2):  Ending execution.
489       +ods trace on;
490       +ods graphics on;
491       +ods exclude
492       +Nobs
493       +where = (_path_ ? 'Step0')
494       +where = (_path_ ? 'Step1')
495       +where = (_path_ ? 'Step2')
496       +where = (_path_ ? 'Step3')
497       +where = (_path_ ? 'Step4')
498       +ROCCurve
499       +LackFitPartition
500       +influence
501       +influencePlots.'Panel 2'
502       +CalibrationPlot
503       +;
NOTE: PROCEDURE LOGISTIC used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              190.68k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       366  Switch Count  0
      Page Faults                      0
      Page Reclaims                    16
      Page Swaps                       0
      Voluntary Context Switches       0
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0

ERROR: File WORK.SCENIC.DATA does not exist.
NOTE: The SAS System stopped processing this step because of errors.
504       +proc logistic data=scenic order=data alpha=.05 plot(only)=(influence
504      !+ roc) descending;;
505       +class region (param=ref);
506       +model School (event='1')= Stay Age Risk Culture Chest Beds
507       +              Census Nurses Facil / selection=STEPWISE
508       +              scale=none gof aggregate rsquare lackfit
509       +              clparm=both clodds=both
510       +              influence expb;
511       +output out=pred predprobs=individual xbeta=xbeta p=probability
511      !+lower=lower upper=upper
512       +           reschi=reschi resdev=resdev stdresdev=stdresdev
513       +           difchisq=difchisq difdev=difdev h=hatdiag / alpha=.05;
514       +%logisticODS;
MLOGIC(LOGISTICODS):  Beginning execution.
MPRINT(LOGISTICODS):   ods output ModelInfo=ModelInfo;
MPRINT(LOGISTICODS):   ods output Nobs=Nobs;
MPRINT(LOGISTICODS):   ods output ClassLevelInfo=ClassLevelInfo;
MPRINT(LOGISTICODS):   ods output ResponseProfile=ResponseProfile;
MPRINT(LOGISTICODS):   ods output Classification=Classification;
MPRINT(LOGISTICODS):   ods output ConvergenceStatus=ConverenceStatus;
MPRINT(LOGISTICODS):   ods output GoodnessOfFit=GoodnessOfFit;
```

```
MPRINT(LOGISTICODS):   ods output FitStatistics=FitStatistics;
MPRINT(LOGISTICODS):   ods output association=association;
MPRINT(LOGISTICODS):   ods output GlobalScore=GlobalScore;
MPRINT(LOGISTICODS):   ods output GlobalTests=GlobalTests;
MPRINT(LOGISTICODS):   ods output ParameterEstimates=ParameterEstimates;
MPRINT(LOGISTICODS):   ods output Odds Ratios=OddsRatios;
MPRINT(LOGISTICODS):   ods output CLOddsPL=CLOddsPL;
MPRINT(LOGISTICODS):   ods output CLOddsWald=CLOddsWald;
MPRINT(LOGISTICODS):   ods output CLParmPL=CLParmPL;
MPRINT(LOGISTICODS):   ods output CLParmWald=CLParmWald;
MLOGIC(LOGISTICODS):  Ending execution.
515       +run; quit;
516       +ods graphics off;
517       +*underdispersion;
518       +
519       +%firstobs(pred,1,5);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value pred
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value


SYMBOLGEN:  Macro variable DATA resolves to pred
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=pred(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to pred
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-pred  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No observations in data set WORK.PRED.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              628.34k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        367  Switch Count  2
      Page Faults                       0
      Page Reclaims                     51
      Page Swaps                        0
      Voluntary Context Switches        13
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           8

WARNING: Output 'CLParmWald' was not created.  Make sure that the output
         object name, label, or path is spelled correctly.  Also, verify that
         the appropriate procedure options are used to produce the requested
         output object.  For example, verify that the NOPRINT option is not
         used.
WARNING: Output 'CLParmPL' was not created.  Make sure that the output object
         name, label, or path is spelled correctly.  Also, verify that the
         appropriate procedure options are used to produce the requested
         output object.  For example, verify that the NOPRINT option is not
         used.
WARNING: Output 'CLOddsWald' was not created.  Make sure that the output
         object name, label, or path is spelled correctly.  Also, verify that
         the appropriate procedure options are used to produce the requested
         output object.  For example, verify that the NOPRINT option is not
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          used.
WARNING: Output 'CLOddsPL' was not created.  Make sure that the output object
          name, label, or path is spelled correctly.  Also, verify that the
          appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'Ratios' was not created.  Make sure that the output object
          name, label, or path is spelled correctly.  Also, verify that the
          appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'Odds' was not created.  Make sure that the output object
          name, label, or path is spelled correctly.  Also, verify that the
          appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'ParameterEstimates' was not created.  Make sure that the
          output object name, label, or path is spelled correctly.  Also,
          verify that the appropriate procedure options are used to produce the
          requested output object.  For example, verify that the NOPRINT option
          is not used.
WARNING: Output 'GlobalTests' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'GlobalScore' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'association' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'FitStatistics' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'GoodnessOfFit' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'ConvergenceStatus' was not created.  Make sure that the
          output object name, label, or path is spelled correctly.  Also,
          verify that the appropriate procedure options are used to produce the
          requested output object.  For example, verify that the NOPRINT option
          is not used.
WARNING: Output 'Classification' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'ResponseProfile' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'ClassLevelInfo' was not created.  Make sure that the output
          object name, label, or path is spelled correctly.  Also, verify that
          the appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
```

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          used.
WARNING: Output 'Nobs' was not created.  Make sure that the output object
          name, label, or path is spelled correctly.  Also, verify that the
          appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.
WARNING: Output 'ModelInfo' was not created.  Make sure that the output object
          name, label, or path is spelled correctly.  Also, verify that the
          appropriate procedure options are used to produce the requested
          output object.  For example, verify that the NOPRINT option is not
          used.

MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
520       +data pred; set pred;
521       +*p=ncol(xmatrix);
522       +p=6;
523       +deltaX=(reschi*reschi)/(1-hatdiag);
524       +deltaD=(resdev*resdev)/(1-hatdiag);
525       +run;

NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PRED has 0 observations and 6 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              941.62k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        368  Switch Count  2
      Page Faults                       0
      Page Reclaims                     124
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


525      !+     quit; title;
526       +
527       +data predD; set pred; keep id stdresdev;
528       +%mysort4(predD,predD,stdresdev,descending,noduplicates,cancel);
MLOGIC(MYSORT4):  Beginning execution.
MLOGIC(MYSORT4):  Parameter DATA1 has value predD
MLOGIC(MYSORT4):  Parameter DATA2 has value predD
MLOGIC(MYSORT4):  Parameter BY has value stdresdev
MLOGIC(MYSORT4):  Parameter DESCENDING has value descending
MLOGIC(MYSORT4):  Parameter NODUPLICATES has value noduplicates
MLOGIC(MYSORT4):  Parameter CANCEL has value cancel

WARNING: The variable id in the DROP, KEEP, or RENAME list has never been
          referenced.
WARNING: The variable stdresdev in the DROP, KEEP, or RENAME list has never
          been referenced.
NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PREDD has 0 observations and 0 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              958.96k
      OS Memory           26532.00k
```

```
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        369  Switch Count  2
      Page Faults                       0
      Page Reclaims                     60
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           176


SYMBOLGEN:  Macro variable DATA1 resolves to predD
SYMBOLGEN:  Macro variable DATA2 resolves to predD
SYMBOLGEN:  Macro variable NODUPLICATES resolves to noduplicates
MPRINT(MYSORT4):   proc sort data=predD out=predD noduplicates;
SYMBOLGEN:  Macro variable DESCENDING resolves to descending
SYMBOLGEN:  Macro variable BY resolves to stdresdev
MPRINT(MYSORT4):   by descending stdresdev;
ERROR: Variable STDRESDEV not found.
MPRINT(MYSORT4):   run;

NOTE: The SAS System stopped processing this step because of errors.
WARNING: The data set WORK.PREDD may be incomplete.  When this step was
         stopped there were 0 observations and 0 variables.
WARNING: Data set WORK.PREDD was not replaced because this step was stopped.
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              560.00k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        370  Switch Count  0
      Page Faults                       0
      Page Reclaims                     15
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           8

MPRINT(MYSORT4):   quit;
SYMBOLGEN:  Macro variable CANCEL resolves to cancel
MLOGIC(MYSORT4):  %IF condition &cancel ne cancel is FALSE
MLOGIC(MYSORT4):  Ending execution.
529       +%firstobs(predD,1,5)
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value predD
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value


SYMBOLGEN:  Macro variable DATA resolves to predD
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=predD(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to predD
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-predD  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No variables in data set WORK.PREDD.
```

```
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              377.87k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        371  Switch Count  2
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        13
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
530       +
531       +data predS; set pred; keep id deltaX deltaD probability; run;

WARNING: The variable id in the DROP, KEEP, or RENAME list has never been
         referenced.
WARNING: The variable probability in the DROP, KEEP, or RENAME list has never
         been referenced.
NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PREDS has 0 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              941.62k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        372  Switch Count  2
      Page Faults                       0
      Page Reclaims                     122
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


532       +%mysort4(predS,predS,deltaX,descending,noduplicates,cancel);
MLOGIC(MYSORT4):  Beginning execution.
MLOGIC(MYSORT4):  Parameter DATA1 has value predS
MLOGIC(MYSORT4):  Parameter DATA2 has value predS
MLOGIC(MYSORT4):  Parameter BY has value deltaX
MLOGIC(MYSORT4):  Parameter DESCENDING has value descending
MLOGIC(MYSORT4):  Parameter NODUPLICATES has value noduplicates
MLOGIC(MYSORT4):  Parameter CANCEL has value cancel
SYMBOLGEN:  Macro variable DATA1 resolves to predS
SYMBOLGEN:  Macro variable DATA2 resolves to predS
SYMBOLGEN:  Macro variable NODUPLICATES resolves to noduplicates
MPRINT(MYSORT4):   proc sort data=predS out=predS noduplicates;
SYMBOLGEN:  Macro variable DESCENDING resolves to descending
SYMBOLGEN:  Macro variable BY resolves to deltaX
MPRINT(MYSORT4):   by descending deltaX;
MPRINT(MYSORT4):   run;

NOTE: Input data set is empty.
NOTE: 0 duplicate observations were deleted.
```

```
NOTE: The data set WORK.PREDS has 0 observations and 2 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              924.03k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        373  Switch Count  2
      Page Faults                       0
      Page Reclaims                     115
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


MPRINT(MYSORT4):   quit;
SYMBOLGEN:  Macro variable CANCEL resolves to cancel
MLOGIC(MYSORT4):  %IF condition &cancel ne cancel is FALSE
MLOGIC(MYSORT4):  Ending execution.
533       +
534       +proc gplot data=pred;
535       +plot(deltaX deltaD)*probability;
ERROR: Variable PROBABILITY not found.
NOTE: The previous statement has been deleted.
536       +symbol color=navy h=1.25 value=dot;
537       +run;

NOTE: No observations in data set WORK.PRED.
537      !+     quit;

NOTE: PROCEDURE GPLOT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              563.50k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        374  Switch Count  1
      Page Faults                       0
      Page Reclaims                     48
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


537      !+          title;
538       +%firstobs(predS,1,5);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value predS
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=predS(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
```

```
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-predS  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No observations in data set WORK.PREDS.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              599.78k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        375  Switch Count  2
      Page Faults                       0
      Page Reclaims                     51
      Page Swaps                        0
      Voluntary Context Switches        13
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
539       +
540       +%logisticPrint2;
MLOGIC(LOGISTICPRINT2):  Beginning execution.
MPRINT(LOGISTICPRINT2):   proc print data = ModelInfo;
ERROR: File WORK.MODELINFO.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "ModelInfo";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              306.90k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        376  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = Nobs;
ERROR: File WORK.NOBS.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "Nobs";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.53k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        377  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
```

```
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = ClassLevelInfo;
ERROR: File WORK.CLASSLEVELINFO.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "ClassLevelInfo";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.59k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        378  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = ResponseProfile;
ERROR: File WORK.RESPONSEPROFILE.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "ResponseProfile";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.01 seconds
      system cpu time     0.00 seconds
      memory              419.25k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        379  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;


MPRINT(LOGISTICPRINT2):   proc print data = Classification;
ERROR: File WORK.CLASSIFICATION.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "Classification";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              418.62k
```

```
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        380  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = ConvergenceStatus;
ERROR: File WORK.CONVERGENCESTATUS.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "ConvergenceStatus ";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              418.62k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        381  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = GoodnessOfFit;
ERROR: File WORK.GOODNESSOFFIT.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "GoodnessOfFit";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.71k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        382  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = FitStatistics;
ERROR: File WORK.FITSTATISTICS.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "FitStatistics";
MPRINT(LOGISTICPRINT2):  run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
```

```
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              418.37k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        383  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = association;
ERROR: File WORK.ASSOCIATION.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "Association";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              418.62k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        384  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        7
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = GlobalScore;
ERROR: File WORK.GLOBALSCORE.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "GlobalScore";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.59k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        385  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        7
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = GlobalTests;
ERROR: File WORK.GLOBALTESTS.DATA does not exist.
```

```
MPRINT(LOGISTICPRINT2):   title "GlobalTests";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.25k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        386  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = ParameterEstimates;
ERROR: File WORK.PARAMETERESTIMATES.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "ParameterEstimates";
MPRINT(LOGISTICPRINT2):  run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              418.62k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        387  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           8

MPRINT(LOGISTICPRINT2):   quit;

22: LINE and COLUMN cannot be determined.
NOTE 242-205: NOSPOOL is on. Rerunning with OPTION SPOOL might allow recovery
              of the LINE and COLUMN where the error has occurred.
ERROR 22-322: Syntax error, expecting one of the following: ;, (, BLANKLINE,
              CONTENTS, DATA, DOUBLE, GRANDTOTAL_LABEL, GRANDTOT_LABEL,
              GRAND_LABEL, GTOTAL_LABEL, GTOT_LABEL, HEADING, LABEL, N, NOOBS,
              NOSUMLABEL, OBS, ROUND, ROWS, SPLIT, STYLE, SUMLABEL, UNIFORM,
              WIDTH.
202: LINE and COLUMN cannot be determined.
NOTE: NOSPOOL is on. Rerunning with OPTION SPOOL might allow recovery of the
      LINE and COLUMN where the error has occurred.
ERROR 202-322: The option or parameter is not recognized and will be ignored.
ERROR: File WORK.ODDS.DATA does not exist.
MPRINT(LOGISTICPRINT2):   proc print data = Odds Ratios title "OddsRatios";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              440.40k
```

```
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        388  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = CLOddsPL;
ERROR: File WORK.CLODDSPL.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "CLOddsPL";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.71k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        389  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = CLOddsWald;
ERROR: File WORK.CLODDSWALD.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "CLOddsWald";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              418.37k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        390  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = CLParmPL;
ERROR: File WORK.CLPARMPL.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "CLParmPL";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
```

```
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              418.62k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        391  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;

MPRINT(LOGISTICPRINT2):   proc print data = CLParmWald;
ERROR: File WORK.CLPARMWALD.DATA does not exist.
MPRINT(LOGISTICPRINT2):   title "CLParmWald";
MPRINT(LOGISTICPRINT2):   run;
NOTE: The SAS System stopped processing this step because of errors.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              419.59k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        392  Switch Count  1
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        6
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

MPRINT(LOGISTICPRINT2):   quit;
MLOGIC(LOGISTICPRINT2):  Ending execution.
541       +
542       +%header2(### 2. REDUCED LOGISTIC MODEL WITH UNDERDISPERSION
542      !+CORRECTION ###);
MLOGIC(HEADER2):  Beginning execution.
MLOGIC(HEADER2):  Parameter HEADER has value ### 2. REDUCED LOGISTIC MODEL
      WITH UNDERDISPERSION CORRECTION ###


MPRINT(HEADER2):   data _null_;
MPRINT(HEADER2):   file print;
SYMBOLGEN:  Macro variable HEADER resolves to ### 2. REDUCED LOGISTIC MODEL
            WITH UNDERDISPERSION CORRECTION ###
MPRINT(HEADER2):   put "### 2. REDUCED LOGISTIC MODEL WITH UNDERDISPERSION
CORRECTION ###";
MPRINT(HEADER2):   run;


Output Added:
-------------
Name:       FilePrint32
Label:      CLParmWald
Data Name:  BatchOutput
Path:       Datastep.FilePrint32
-------------
NOTE: 1 lines were written to file PRINT.
```

```
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              588.34k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        393  Switch Count  0
      Page Faults                       0
      Page Reclaims                     26
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


MPRINT(HEADER2):   quit;
MPRINT(HEADER2):   title;
MLOGIC(HEADER2):  Ending execution.
543       +ods text="scale=square root of phi = sqrt(.29731)=.54526";
544       +ods graphics on;
545       +ods exclude
546       +Nobs
547       +LackFitPartition
548       +influence
549       +influencePlots.'Panel 2'
550       +CalibrationPlot
551       +;
NOTE: PROCEDURE LOGISTIC used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              191.06k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        394  Switch Count  0
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

ERROR: File WORK.SCENIC.DATA does not exist.
NOTE: The SAS System stopped processing this step because of errors.
552       +proc logistic data=scenic order=data alpha=.05 plot(only)=(influence
552      !+ roc) descending;
553       +class region (param=ref);
554       +model School (event='1')= Age Culture Beds
555       +              Census Facil /
556       +              scale=.54526 aggregate
557       +              rsquare lackfit
558       +              clparm=both clodds=both
559       +              influence expb;
560       +output out=pred predprobs=individual xbeta=xbeta p=probability
560      !+lower=lower upper=upper
561       +           reschi=reschi resdev=resdev stdresdev=stdresdev
562       +           difchisq=difchisq difdev=difdev h=hatdiag / alpha=.05;
563       +run; quit;
564       +ods graphics off;
565       +*underdispersion correction was made;
566       +*compare -2LogL(Saturated Model w and wo scale=.54526) and
566      !+-2LogL(ReducedUnderdispersion corrected Model);
```

```
567       +


568       +data pred; set pred;
569       +*p=ncol(xmatrix);
570       +p=6;
571       +deltaX=(reschi*reschi)/(1-hatdiag);
572       +deltaD=(resdev*resdev)/(1-hatdiag);
573       +run;

NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PRED has 0 observations and 6 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              941.62k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        395  Switch Count  2
      Page Faults                       0
      Page Reclaims                     124
      Page Swaps                        0
      Voluntary Context Switches        11
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


573      !+     quit; title;
574       +
575       +data predD; set pred; keep id stdresdev;
576       +%mysort4(predD,predD,stdresdev,descending,noduplicates,cancel);
MLOGIC(MYSORT4):  Beginning execution.
MLOGIC(MYSORT4):  Parameter DATA1 has value predD
MLOGIC(MYSORT4):  Parameter DATA2 has value predD
MLOGIC(MYSORT4):  Parameter BY has value stdresdev
MLOGIC(MYSORT4):  Parameter DESCENDING has value descending
MLOGIC(MYSORT4):  Parameter NODUPLICATES has value noduplicates
MLOGIC(MYSORT4):  Parameter CANCEL has value cancel

WARNING: The variable id in the DROP, KEEP, or RENAME list has never been
         referenced.
WARNING: The variable stdresdev in the DROP, KEEP, or RENAME list has never
         been referenced.
NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PREDD has 0 observations and 0 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              1071.09k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        396  Switch Count  2
      Page Faults                       0
      Page Reclaims                     58
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           160


SYMBOLGEN:  Macro variable DATA1 resolves to predD
```

```
SYMBOLGEN:  Macro variable DATA2 resolves to predD
SYMBOLGEN:  Macro variable NODUPLICATES resolves to noduplicates
MPRINT(MYSORT4):   proc sort data=predD out=predD noduplicates;
SYMBOLGEN:  Macro variable DESCENDING resolves to descending
SYMBOLGEN:  Macro variable BY resolves to stdresdev
MPRINT(MYSORT4):   by descending stdresdev;
ERROR: Variable STDRESDEV not found.
MPRINT(MYSORT4):   run;

NOTE: The SAS System stopped processing this step because of errors.
WARNING: The data set WORK.PREDD may be incomplete.  When this step was
         stopped there were 0 observations and 0 variables.
WARNING: Data set WORK.PREDD was not replaced because this step was stopped.
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              447.90k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        397  Switch Count  0
      Page Faults                       0
      Page Reclaims                     15
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           16

MPRINT(MYSORT4):   quit;
SYMBOLGEN:  Macro variable CANCEL resolves to cancel
MLOGIC(MYSORT4):  %IF condition &cancel ne cancel is FALSE
MLOGIC(MYSORT4):  Ending execution.
577       +%firstobs(predD,1,5);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value predD
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value


SYMBOLGEN:  Macro variable DATA resolves to predD
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=predD(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to predD
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-predD  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No variables in data set WORK.PREDD.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              377.71k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        398  Switch Count  2
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        13
```

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


MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
578       +
579       +data predS; set pred; keep id deltaX deltaD; run;

WARNING: The variable id in the DROP, KEEP, or RENAME list has never been
         referenced.
NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PREDS has 0 observations and 2 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              1053.87k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        399  Switch Count  2
      Page Faults                       0
      Page Reclaims                     122
      Page Swaps                        0
      Voluntary Context Switches        9
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


580       +%mysort4(predS,predS,deltaX,descending,noduplicates,cancel);
MLOGIC(MYSORT4):  Beginning execution.
MLOGIC(MYSORT4):  Parameter DATA1 has value predS
MLOGIC(MYSORT4):  Parameter DATA2 has value predS
MLOGIC(MYSORT4):  Parameter BY has value deltaX
MLOGIC(MYSORT4):  Parameter DESCENDING has value descending
MLOGIC(MYSORT4):  Parameter NODUPLICATES has value noduplicates
MLOGIC(MYSORT4):  Parameter CANCEL has value cancel
SYMBOLGEN:  Macro variable DATA1 resolves to predS
SYMBOLGEN:  Macro variable DATA2 resolves to predS
SYMBOLGEN:  Macro variable NODUPLICATES resolves to noduplicates
MPRINT(MYSORT4):   proc sort data=predS out=predS noduplicates;
SYMBOLGEN:  Macro variable DESCENDING resolves to descending
SYMBOLGEN:  Macro variable BY resolves to deltaX
MPRINT(MYSORT4):   by descending deltaX;
MPRINT(MYSORT4):   run;

NOTE: Input data set is empty.
NOTE: 0 duplicate observations were deleted.
NOTE: The data set WORK.PREDS has 0 observations and 2 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              926.31k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        400  Switch Count  2
      Page Faults                       0
      Page Reclaims                     113
      Page Swaps                        0
      Voluntary Context Switches        10
      Involuntary Context Switches      0
```

```
      Block Input Operations           0
      Block Output Operations          272


MPRINT(MYSORT4):   quit;
SYMBOLGEN:  Macro variable CANCEL resolves to cancel
MLOGIC(MYSORT4):  %IF condition &cancel ne cancel is FALSE
MLOGIC(MYSORT4):  Ending execution.
581       +
582       +proc gplot data=pred;
583       +plot(deltaX deltaD)*probability;
ERROR: Variable PROBABILITY not found.
NOTE: The previous statement has been deleted.
584       +symbol color=navy h=1.25 value=dot;
585       +run;

NOTE: No observations in data set WORK.PRED.
585      !+     quit;

NOTE: PROCEDURE GPLOT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              563.37k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       401  Switch Count  1
      Page Faults                      0
      Page Reclaims                    48
      Page Swaps                       0
      Voluntary Context Switches       6
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0


585      !+          title;
586       +
587       +%firstobs(predS,1,5);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value predS
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=predS(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-predS  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No observations in data set WORK.PREDS.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              597.65k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       402  Switch Count  2
      Page Faults                      0
```

```
      Page Reclaims                    50
      Page Swaps                       0
      Voluntary Context Switches       14
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0


MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
588       +
589       +
590       +
591       +%header2(### 3. SATURATED LOGISTIC MODEL WITH UNDERDISPERSION
591      !+CORRECTION);
MLOGIC(HEADER2):  Beginning execution.
MLOGIC(HEADER2):  Parameter HEADER has value ### 3. SATURATED LOGISTIC MODEL
      WITH UNDERDISPERSION CORRECTION
MPRINT(HEADER2):   data _null_;
MPRINT(HEADER2):   file print;
SYMBOLGEN:  Macro variable HEADER resolves to ### 3. SATURATED LOGISTIC MODEL
            WITH UNDERDISPERSION CORRECTION
MPRINT(HEADER2):   put "### 3. SATURATED LOGISTIC MODEL WITH UNDERDISPERSION
CORRECTION";
MPRINT(HEADER2):   run;


Output Added:
-------------
Name:       FilePrint33
Label:      FilePrint33
Data Name:  BatchOutput
Path:       Datastep.FilePrint33
-------------
NOTE: 1 lines were written to file PRINT.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              588.34k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       403  Switch Count  0
      Page Faults                      0
      Page Reclaims                    29
      Page Swaps                       0
      Voluntary Context Switches       0
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          0


MPRINT(HEADER2):   quit;
MPRINT(HEADER2):   title;
MLOGIC(HEADER2):  Ending execution.
592       +ods text="All predictors stay in, scale=.54526 is included";
593       +ods graphics on;
594       +ods exclude
595       +Nobs
596       +ROCCurve
597       +LackFitPartition
598       +influence
599       +influencePlots.'Panel 2'
600       +;
```

```
NOTE: PROCEDURE LOGISTIC used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              191.06k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        404  Switch Count  0
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

ERROR: File WORK.SCENIC.DATA does not exist.
NOTE: The SAS System stopped processing this step because of errors.
601       +proc logistic data=scenic order=data alpha=.05 plot(only)=(influence
601      !+ roc) descending;
602       +class region (param=ref);
603       +model School (event='1')= Stay Age Risk Culture Chest Beds
604       +              Census Nurses Facil  /
605       +              scale=.54526 aggregate
606       +              rsquare lackfit
607       +              clparm=both clodds=both
608       +              influence expb;
609       +output out=pred predprobs=individual xbeta=xbeta p=probability
609      !+lower=lower upper=upper
610       +           reschi=reschi resdev=resdev stdresdev=stdresdev
611       +           difchisq=difchisq difdev=difdev h=hatdiag / alpha=.05;
612       +run; quit;
613       +ods graphics off;
614       +*underdispersion correction was made;
615       +*compare -2LogL(Saturated Modelw and wo scale=.54526) and
615      !+-2LogL(ReducedUnderdispersion corrected Model);
616       +*as a check compute scaled deviance ratio (Dev/Df)/phi;
617       +*(D/df)/phi = .2896/.54526;
618       +*output states that actual phi used = .29731 so (D/df)/phi = .2896 /
618      !+ .29731 ~ 1;
619       +


620       +data pred; set pred;
621       +*p=ncol(xmatrix);
622       +p=6;
623       +deltaX=(reschi*reschi)/(1-hatdiag);
624       +deltaD=(resdev*resdev)/(1-hatdiag);
625       +run;

NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PRED has 0 observations and 6 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              943.75k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        405  Switch Count  2
      Page Faults                       0
      Page Reclaims                     122
      Page Swaps                        0
      Voluntary Context Switches        11
      Involuntary Context Switches      0
```

```
      Block Input Operations           0
      Block Output Operations          272


625      !+     quit; title;
626       +
627       +data predS; set pred; keep id deltaX deltaD; run;

WARNING: The variable id in the DROP, KEEP, or RENAME list has never been
         referenced.
NOTE: There were 0 observations read from the data set WORK.PRED.
NOTE: The data set WORK.PREDS has 0 observations and 2 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              1021.90k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       406  Switch Count  2
      Page Faults                      0
      Page Reclaims                    122
      Page Swaps                       0
      Voluntary Context Switches       9
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          264


628       +%mysort4(predS,predS,deltaX,descending,noduplicates,cancel);
MLOGIC(MYSORT4):  Beginning execution.
MLOGIC(MYSORT4):  Parameter DATA1 has value predS
MLOGIC(MYSORT4):  Parameter DATA2 has value predS
MLOGIC(MYSORT4):  Parameter BY has value deltaX
MLOGIC(MYSORT4):  Parameter DESCENDING has value descending
MLOGIC(MYSORT4):  Parameter NODUPLICATES has value noduplicates
MLOGIC(MYSORT4):  Parameter CANCEL has value cancel
SYMBOLGEN:  Macro variable DATA1 resolves to predS
SYMBOLGEN:  Macro variable DATA2 resolves to predS
SYMBOLGEN:  Macro variable NODUPLICATES resolves to noduplicates
MPRINT(MYSORT4):   proc sort data=predS out=predS noduplicates;
SYMBOLGEN:  Macro variable DESCENDING resolves to descending
SYMBOLGEN:  Macro variable BY resolves to deltaX
MPRINT(MYSORT4):   by descending deltaX;
MPRINT(MYSORT4):   run;

NOTE: Input data set is empty.
NOTE: 0 duplicate observations were deleted.
NOTE: The data set WORK.PREDS has 0 observations and 2 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              923.03k
      OS Memory           26792.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                       407  Switch Count  2
      Page Faults                      0
      Page Reclaims                    113
      Page Swaps                       0
      Voluntary Context Switches       9
      Involuntary Context Switches     0
      Block Input Operations           0
      Block Output Operations          264
```

```
MPRINT(MYSORT4):   quit;
SYMBOLGEN:  Macro variable CANCEL resolves to cancel
MLOGIC(MYSORT4):  %IF condition &cancel ne cancel is FALSE
MLOGIC(MYSORT4):  Ending execution.
629       +
630       +proc gplot data=pred;
631       +plot(deltaX deltaD)*probability;
ERROR: Variable PROBABILITY not found.
NOTE: The previous statement has been deleted.
632       +symbol color=navy h=1.25 value=dot;
633       +run;

NOTE: No observations in data set WORK.PRED.
633      !+     quit;

NOTE: PROCEDURE GPLOT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              564.50k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        408  Switch Count  1
      Page Faults                       0
      Page Reclaims                     48
      Page Swaps                        0
      Voluntary Context Switches        8
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


633      !+          title;
634       +
635       +%firstobs(predS,1,5);
MLOGIC(FIRSTOBS):  Beginning execution.
MLOGIC(FIRSTOBS):  Parameter DATA has value predS
MLOGIC(FIRSTOBS):  Parameter FIRSTOBS has value 1
MLOGIC(FIRSTOBS):  Parameter LASTOBS has value 5
MLOGIC(FIRSTOBS):  Parameter NOOBS has value
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
SYMBOLGEN:  Macro variable NOOBS resolves to
MPRINT(FIRSTOBS):   proc print data=predS(firstobs=1 obs=5) ;
MPRINT(FIRSTOBS):   title "FIRSTOBS MACRO";
SYMBOLGEN:  Macro variable DATA resolves to predS
SYMBOLGEN:  Macro variable FIRSTOBS resolves to 1
SYMBOLGEN:  Macro variable LASTOBS resolves to 5
MPRINT(FIRSTOBS):   title2 "Data Set-predS  Observations 1 to 5";
MPRINT(FIRSTOBS):   run;
NOTE: No observations in data set WORK.PREDS.
NOTE: PROCEDURE PRINT used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              599.21k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        409  Switch Count  2
      Page Faults                       0
      Page Reclaims                     50
      Page Swaps                        0
      Voluntary Context Switches        15
```

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


MPRINT(FIRSTOBS):   quit;
MPRINT(FIRSTOBS):   title;
MLOGIC(FIRSTOBS):  Ending execution.
636       +
637       +
638       +
639       +%header2(### 4. SATURATED MODEL to get -2 LogL ###);
MLOGIC(HEADER2):  Beginning execution.
MLOGIC(HEADER2):  Parameter HEADER has value ### 4. SATURATED MODEL to get -2
      LogL ###
MPRINT(HEADER2):   data _null_;
MPRINT(HEADER2):   file print;
SYMBOLGEN:  Macro variable HEADER resolves to ### 4. SATURATED MODEL to get -2
            LogL ###
MPRINT(HEADER2):   put "### 4. SATURATED MODEL to get -2 LogL ###";
MPRINT(HEADER2):   run;


Output Added:
-------------
Name:       FilePrint34
Label:      FilePrint34
Data Name:  BatchOutput
Path:       Datastep.FilePrint34
-------------
NOTE: 1 lines were written to file PRINT.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              554.50k
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        410  Switch Count  0
      Page Faults                       0
      Page Reclaims                     26
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0


MPRINT(HEADER2):   quit;
MPRINT(HEADER2):   title;
MLOGIC(HEADER2):  Ending execution.
640       +ods graphics on;
641       +ods exclude
642       +Nobs
643       +ROCCurve
644       +LackFitPartition
645       +influence
646       +InfluencePlots.'Panel 1'
647       +influencePlots.'Panel 2'
648       +;
NOTE: PROCEDURE LOGISTIC used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              190.81k
```

```
      OS Memory           26272.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        411  Switch Count  0
      Page Faults                       0
      Page Reclaims                     16
      Page Swaps                        0
      Voluntary Context Switches        0
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           0

ERROR: File WORK.SCENIC.DATA does not exist.
NOTE: The SAS System stopped processing this step because of errors.
649       +proc logistic data=scenic order=data alpha=.05 plot(only)=(influence
649      !+ roc) descending;
650       +class region (param=ref);
651       +model School (event='1')= Age Culture Beds
652       +              Census Facil /
653       +              scale=NONE aggregate
654       +              rsquare lackfit
655       +              clparm=both clodds=both
656       +              influence expb;
657       +output out=pred predprobs=individual xbeta=xbeta p=probability
657      !+lower=lower upper=upper
658       +           reschi=reschi resdev=resdev stdresdev=stdresdev
659       +           difchisq=difchisq difdev=difdev h=hatdiag / alpha=.05;
660       +run; quit;
661       +ods graphics off;
662       +
663       +%timetrak2;
MLOGIC(TIMETRAK2):  Beginning execution.
MPRINT(TIMETRAK2):   title;

MPRINT(TIMETRAK2):   data timetrak;
MPRINT(TIMETRAK2):   set timetrak;
ERROR: File WORK.TIMETRAK.DATA does not exist.
MPRINT(TIMETRAK2):   time2=time();
MPRINT(TIMETRAK2):   Xtime=(time2-time1)/60;
MPRINT(TIMETRAK2):   file print;
MPRINT(TIMETRAK2):   put _page_ ;
MPRINT(TIMETRAK2):   put // "Total Execution Time is " xtime 5.3 " Minutes";
MPRINT(TIMETRAK2):   run;

NOTE: The SAS System stopped processing this step because of errors.
WARNING: The data set WORK.TIMETRAK may be incomplete.  When this step was
         stopped there were 0 observations and 3 variables.
NOTE: DATA statement used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              863.09k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        412  Switch Count  2
      Page Faults                       0
      Page Reclaims                     88
      Page Swaps                        0
      Voluntary Context Switches        12
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           264


MPRINT(TIMETRAK2):   proc datasets nolist;
MPRINT(TIMETRAK2):   delete timetrak;
```

```
MPRINT(TIMETRAK2):   run;
NOTE: Deleting WORK.TIMETRAK (memtype=DATA).
MPRINT(TIMETRAK2):   quit;
NOTE: PROCEDURE DATASETS used (Total process time):
      real time           0.00 seconds
      user cpu time       0.00 seconds
      system cpu time     0.00 seconds
      memory              615.46k
      OS Memory           26532.00k
      Timestamp           08/05/2021 08:29:35 PM
      Step Count                        413  Switch Count  2
      Page Faults                       0
      Page Reclaims                     48
      Page Swaps                        0
      Voluntary Context Switches        14
      Involuntary Context Switches      0
      Block Input Operations            0
      Block Output Operations           8


MLOGIC(TIMETRAK2):  Ending execution.
664       +
665       +
666       +
NOTE: %INCLUDE (level 1) ending.
667        *same results;
668
669        OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
SYMBOLGEN:  Macro variable GRAPHTERM resolves to GOPTIONS NOACCESSIBLE;
679
```