```
1
          OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
68
69
           * AST 503
70
          Program 5
71
           Zainab Akinjobi
72
          Questionnaire data with missing values
73
74
          cs1 = customer safisfaction 1
75
          cs2 = customer safisfaction 2 and so on ...
76
77
          There are 3 scales
78
           ( cust safisfaction ,
                                  acculturation ,
79
            political stance ) ;
80
81
82
83
          data mydata
84
          input name $ 1-7 age 10-11 gender $ 16
85
86
87
              @20 (cs1- cs7 ) ( 1.0)
88
29
              @30 (acc1 - acc8) (1.0)
90
91
              @40 (v1 - v4) ($1.0);
92
           * At space 20, read in 7 items with one spacing
93
            At space 40 , read v1 - v4 with one spacing between the characters;
94
95
96
          Cust_satis = (cs1 + cs2 + cs3 + cs4 + cs5 + cs6 + cs7) / 7;
97
           * This is used to calculate the mean when there are no missing values;
98
99
          accultur = mean( of acc1 acc2 acc3 acc4 acc5 acc6 acc7 acc8 );
100
          * This is used to calculate the mean when there are missing values;
101
102
103
          vv1 = Rank(v1) - 96;
104
          vv2 = Rank (v2) - 96;
          vv3 = Rank (v3) - 96;
105
106
          vv4 = Rank (v4) - 96;
107
          *v1 is the variable
108
          vv1 is the conversion;
109
110
          scale3 = mean ( of vv1 vv2 vv3 vv4 ) ;
111
112
113
114
          datalines ;
NOTE: Missing values were generated as a result of performing an operation on missing values.
      Each place is given by: (Number of times) at (Line):(Column).
      1 at 96:21
NOTE: The data set WORK.MYDATA has 10 observations and 29 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
                         735.90k
      OS Memory
                          26276.00k
                          12/13/2021 03:27:05 AM
      Timestamp
      Step Count
                                        89 Switch Count 2
      Page Faults
                                        0
                                        131
      Page Reclaims
      Page Swaps
                                        0
                                        11
      Voluntary Context Switches
      Involuntary Context Switches
                                        0
```

```
Block Input Operations
                                      0
     Block Output Operations
                                      264
125
          ;
126
127
128
          proc contents data = mydata ;
129
130
          *proc content is used to ensure that all the data variables are in reasonable format;
131
132
133
NOTE: PROCEDURE CONTENTS used (Total process time):
     system cpu time 0.00 seconds
                        1862.93k
     memory
     OS Memory
                       26536.00k
     Timestamp
                        12/13/2021 03:27:05 AM
     Step Count
                                      90 Switch Count 0
     Page Faults
                                      0
     Page Reclaims
                                      127
     Page Swaps
                                      0
     Voluntary Context Switches
                                      0
     Involuntary Context Switches
                                      1
     Block Input Operations
                                      0
     Block Output Operations
                                      24
134
          proc print data = mydata ;
          var cs1 - cs3 cust satis acc1 - acc4 accultur vv1 - vv4 v1;
135
          title1 ' print a portion of the q-aire data ';
136
137
138
139
140
NOTE: There were 10 observations read from the data set WORK.MYDATA.
NOTE: PROCEDURE PRINT used (Total process time):
     real time 0.03 seconds
     user cpu time 0.03 seconds system cpu time 0.00 seconds
     memory
                       892.78k
     OS Memory
                       26276.00k
     Timestamp
                       12/13/2021 03:27:06 AM
     Step Count
                                      91 Switch Count 1
     Page Faults
                                      0
                                      66
     Page Reclaims
     Page Swaps
                                      0
     Voluntary Context Switches
                                      10
     Involuntary Context Switches
                                      0
     Block Input Operations
                                      0
     Block Output Operations
                                      0
141
          proc means data = mydata mean median n;
142
          var cust_satis accultur scale3;
143
          title1 means and medians of q-airre data;
144
NOTE: There were 10 observations read from the data set WORK.MYDATA.
NOTE: PROCEDURE MEANS used (Total process time):
                        0.02 seconds
     real time
     user cpu time
                        0.02 seconds
     system cpu time
                        0.01 seconds
     memory
                         6663.56k
```

12/12/21, 7:27 PM Log: Program 5.sas

```
OS Memory
                        32184.00k
     Timestamp
                        12/13/2021 03:27:06 AM
     Step Count
                                       92 Switch Count 2
     Page Faults
                                       0
     Page Reclaims
                                       1480
     Page Swaps
     Voluntary Context Switches
                                       22
     Involuntary Context Switches
                                       0
     Block Input Operations
                                       ٥
     Block Output Operations
                                       8
145
          proc contents data = mydata;
146
147
NOTE: PROCEDURE CONTENTS used (Total process time):
     real time 0.05 seconds
                       0.05 seconds
     user cpu time
     system cpu time 0.00 seconds
                       983.59k
     memory
                       27304.00k
     OS Memory
                        12/13/2021 03:27:06 AM
     Timestamp
     Step Count
                                       93 Switch Count 0
     Page Faults
                                       0
     Page Reclaims
                                       93
     Page Swaps
                                       0
     Voluntary Context Switches
                                       0
     Involuntary Context Switches
                                       0
     Block Input Operations
                                       0
     Block Output Operations
                                       40
148
          proc sgplot data = mydata;
149
          scatter x = cust satis y = accultur;
          title1 'scatter plot of scale1 vs scale2 ';
150
151
152
          run;
NOTE: PROCEDURE SGPLOT used (Total process time):
     real time 0.15 seconds
     user cpu time 0.04 seconds system cpu time 0.01 seconds memory
     OS Memory
                       33580.00k
     Timestamp
                        12/13/2021 03:27:06 AM
     Step Count
                                       94 Switch Count 2
     Page Faults
     Page Reclaims
                                       1792
     Page Swaps
                                       0
     Voluntary Context Switches
                                       146
     Involuntary Context Switches
                                       0
     Block Input Operations
                                       0
     Block Output Operations
                                       464
NOTE: There were 10 observations read from the data set WORK.MYDATA.
153
154
          OPTIONS NONOTES NOSTIMER NOSOURCE NOSYNTAXCHECK;
164
```

3/3