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ONTARIO LIFESTYLE, ALCOHOL, AND DRUG QUESTIONNAIRE
Reformatting variables and calculations for comparison between Canada and the United States

Ruth Engs, Indiana University, Bloomington, IN
Louis Glickman, and Cindy Smith, Addiction Research Foundation, Ontario, Canada 1988

ABSTRACT

The *Ontario Lifestyle, Alcohol, and Drug Questionnaire* uses items from the SAQ including demographic, drinking behaviors and problems related to alcohol. Several data bases are associated with this questionnaire. These include data collected by the Ontario researchers (ALLCAN.DAT), data collected by the American researchers from their Midwestern sample (MIDWEST88.DAT) and the two data based combined for comparison between the two countries (XUSACAN.DAT). Data for this study was collected in the United States and in Canada during 1977-1988. Students from Midwestern states in the United States surrounding Ontario were selected for comparative purposes to Ontario.

IF YOU ARE USING THIS SURVEY INSTRUMENT FOR A CLASSROOM PROJECT, IT IS SUGGESTED THAT YOU JUST CALCULATE THE PERCENT OF SUBJECTS WHO ANSWERED EACH QUESTION STEM RATHER THAN CALCULATE A Q-F LEVEL

Information on some SPSS coding for a mainframe computer which can be adapted for pc SPSS program:

LT = less then
LE = less than or equal to.
EQ = equal
GE = greater or equal
GT = greater than
/ = beginning or end of a new line for the variable list or computation OR division (such as 4/2=2)
* = times (such as 2x2=4)

VALUE LABEL = the variable and its numeric value, ie. "sex" 1=male, 2=female.

VARIABLE LIST FOR THE CANADIAN VARIABLES FROM SPSS PROGRAM FROM THE *ONTARIO LIFESTYLE, ALCOHOL, AND DRUG QUESTIONNAIRE*. Please note that the questionnaire was a draft version and the spaces designated on the questionnaire do not match up with the variable spaces in the following SPSS program.

```
1. TITLE ONTARIO LIFESTYLE SURVEY-DATA DEFINITION JUNE/88
2. FILE HANDLE    QUEENS
3. DATA LIST FILE=QUEENS RECORDS=1 NOTABLE
4.       /1 ID 1-3 GENDER 4 AGE 5-6 RACIAL 7 V4 8 V5 9 V6 10-11 V7 12
   V8 13
5.         V9 14 V10 15 V11 16 V12 17 V13 18-19 V14 20 V15 21 V16 22
6.         V17 23 V18 24 V19 25 V20 26 V21 27 V22 28 V23 29 V24 30
7.         V25 31 V26 32 V27 33 V28 34 V29 35 V30 36 V31 37 V32 38
8.         V33 39 V34 40 V35 41 V36 42 V37 43 V38 44 V39 45 V40 46
9.         V41 47 V42 48 V43 49 V44 50 V45 51 V46 52 V47 53 V48 54
10.        V49 55 V50 56-57 V51 58 V52 59-60 V53 61 V54 62-63
11.        V55 64 V56 65 V57 66 V58 67 V59 68 V60 69 V61 70 V62
           71  V63 72 V64 73 V65 74 V66 75 V67 76 V68 77 V69 78 V70
           79 V71 80
12.     VAR LABELS    RACIAL "YOUR RACIAL ORIGIN"
13.                   V4 "CITIZENSHIP STATUS"
14.                   V5 "YEAR OF UNIVERSITY"
15.                   V6 "LAST YEAR'S GRADE AVERAGE"
16.                   V7 "YOUR RELIGION"
17.                   V8 "RELIGION YOU WERE BROUGHT UP IN"
18.                   V9 "HOW IMPORTANT IS RELIGION TO YOU"
19.                   V10 "FREQ - RELIGIOUS SERVICE ATTENDANCE"
20.                   V11 "CURRENT MARITAL STATUS"
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21.                    V12 "PLACE OF RESIDENCE AT UNIVERSITY"
22.                    V13 "UNDERGRAD MAJOR FIELD OF STUDY"
23.                    V14 "GONE ON A SHOPPING SPREE"
24.                    V15 "ENGAGED IN SEXUAL ACTIVITY"
25.                    V16 "GAMBLED"
26.                    V17 "BEGAN A NEW LOVE RELATIONSHIP"
27.                    V18 "DIETED TO LOSE WEIGHT"
28.                    V19 "OVEREATEN"
29.                    V20 "LAXATIVES OR VOMITING"
30.                    V21 "USED ALCOHOL TO REDUCE STRESS"
31.                    V22 "# OF HOURS/DAY-INDIV EXERCISE"
32.                    V23 "# OF HOURS/DAY-TEAM EXERCISE"
33.                    V24 "# OF HOURS/DAY-STUDYING"
34.                    V25 "# OF HOURS/DAY-WATCHING TV"
35.                    V26 "# OF HOURS/DAY-VIDEO GAMES"
36.                    V27 "# OF HOURS/DAY-COMPUTER"
37.                    V28 "# OF HOURS/DAY-DRINKING ALC"
38.                    V29 "HAD A HANGOVER"
39.                    V30 "VOMITED FROM DRINKING"
40.                    V31 "DRIVEN AFTER DRINKING"
41.                    V32 "DRIVEN WITH TOO MUCH TO DRINK"
42.                    V33 "DRINKING WHILE DRIVING"
43.                    V34 "GONE TO CLASS AFTER DRINKING"
44.                    V35 "CUT A CLASS AFTER DRINKING"
45.                    V36 "MISSED A CLASS-HANGOVER"
46.                    V37 "ARRESTED FOR IMPAIRED"
47.                    V38 "CRITICIZED FOR DRINKING"
48.                    V39 "TROUBLE WITH LAW FOR DRINKING"
49.                    V40 "LOST JOB FOR DRINKING"
50.                    V41 "LOWER GRADE FOR DRINKING"
51.                    V42 "SCHOOL ADMIN TROUBLE-DRINKING"
52.                    V43 "FIGHT AFTER DRINKING"
53.                    V44 "FEEL HAVE PROBLEM WITH DRINKING"
54.                    V45 "DAMAGED PROPERTY AFTER DRINKING"
55.                    V46 "ACCIDENT AFTER DRINKING"
56.                    V47 "MEMORY LOSS AFTER DRINKING"
57.                    V48 "DONE SOMETHING YOU REGRETTED"
58.                    V49 "FREQUENCY - BEER"
59.                    V50 "AMOUNT PER OCCASION - BEER"
60.                    V51 "FREQUENCY - WINE"
61.                    V52 "AMOUNT PER OCCASION - WINE"
62.                    V53 "FREQUENCY - LIQUOR"
63.                    V54 "AMOUNT PER OCCASION - LIQUOR"
64.                    V55 "LAST 12 MONTHS - ALCOHOL"
65.                    V56 "LAST 12 MONTHS - TOBACCO"
66.                    V57 "LAST 12 MONTHS - CANNABIS"
67.                    V58 "LAST 12 MOS.- BARBIT-NO SCRIPT"
68.                    V59 "LAST 12 MOS.- BARBIT-WITH SCRIPT"
69.                    V60 "LAST 12 MOS. - HEROIN"
70.                    V61 "LAST 12 MOS. - METHAMPHETAMINES"
71.                    V62 "LAST 12 MOS. - COCAIN:::0:R6L:F::A:::::E:E"
72.                    V63 "LAST 12 MOS. - CRACK"
73.                    V64 "LAST 12 MOS. - STIMUL-NO SCRIPT"
74.                    V65 "LAST 12 MOS. - LOOK-ALIKE DRUGS"
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75.                            V66 "LAST 12 MOS. - STIMUL-WITH SCRIPT"
76.                            V67 "LAST 12 MOS. - TRANQS-NO SCRIPT"
77.                            V68 "LAST 12 MOS. - TRANQS-WITH SCRIPT"
78.                            V69 "LAST 12 MOS. - LSD"
79.                            V70 "LAST 12 MOS. - HALLUCINOGENS"
80.                            V71 "LAST 12 MOS. - ANABOLIC STEROIDS"
81.      VALUE LABELS   GENDER 1 "MALE" 2"FEMALE"/
82.                      RACIAL 1 "BLACK" 2 "EAST ASIAN" 3 "SOUTH ASIAN"
83.                      4 "S-E ASIAN" 5 "WEST ASIAN" 6 "WHITE"
84.                      7    "OTHER"/
85.                      V4 1 "BORN IN CANADA" 2 "NATURALIZED CDN"
86.                         3 "LANDED IMMIGRANT" 4 "STUDENT VISA"
87.                         5    "OTHER"/
88.                      V7 1 "ROMAN CATHOLIC" 2 "PROTESTANT-DRINK"
89.                         3 "PROTESTANT-NO DRINK" 4 "JEWISH"
90.                         5 "EASTERN ORTHODOX" 6 "NONE" 7 "OTHER"/
91.                      V8 1 "ROMAN CATHOLIC" 2 "PROTESTANT-DRINK"
92.                         3 "PROTESTANT-NO DRINK" 4 "JEWISH"
93.                         5 "EASTERN ORTHODOX" 6 "NONE" 7 "OTHER"/
94.                      V9 1 "VERY IMPORTANT" 2 "MODERATELY IMPORTANT"
95.                         3 MILDLY IMPORTANT" 4 "NOT IMPORTANT"/
96.                      V10 1 "VERY FREQUENTLY" 2 "FREQUENTLY"
97.                       3 "OCCASIONALLY"
98.                       4 "INFREQUENTLY" 5 "VERY INFREQUENTLY"
99.                       6 "NEVER"/
100.                      V11 1 "SINGLE" 2 "MARRIED"
101.                       3 "LIVING WITH SOMEONE"
102.                       4 "SEPARATED" 5 "DIVORCED" 6 "WIDOWED"/
103.                      V12 1 "UNIVERSITY RESIDENCE" 2 "PARENT'S
104.                      HOUSE"  3 "FRATERNITY\SORORITY" 4 "OFF-CAMPUS"
105.                       5 "OTHER"/
106.                      V13 0 "APP HEALTH SC *?*" 1 "ARTS"
107.                         2 "BUSINESS ADMIN" 3 "ENG SCIENCE"
108.                         4 "MUSIC"
109.                         5 "NURSING" 6 "PHYSICAL EDUCATION"
110.                         7 "SCIENCE"
111.                         8 "SOCIAL SCIENCE" 9 "LANDSCAPE ARCH"
112.                         10 "AGRICULTURE" 11 "OTHER"/
113.                      V14 TO V21 1 " > 1/DAY,7 DAYS/WEEK"
114.                                  2 "1/DAY, 7DAYS/WEEK"
115.                                  3 "3 TIMES/WEEK"
116.                                  4 "ONCE A WEEK"
117.                                  5 "2-3 TIMES/MO"
118.                                  6 "ONCE/MONTH"
119.                                  7 "2-6 TIMES/YR"
120.                                  8 "ONCE A YEAR"
121.                                  9 "NOT AT ALL"/
122.                       V29 TO V48 1 "ONCE-PAST 2 MOS. +"
123.                                   2 "ONCE-PAST 2 MOS."
124.                                   3 "ONCE-PAST YEAR"
125.                                   4 "ONCE IN MY LIFE"
126.                                   5 "HAS NOT HAPPENED"/
127.                        V49 V51 V53 1 "NEVER" 2 "EVERY DAY"
128.                            3 "ONCE A WEEK +"
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129.                                    4 "ONCE A MO. +"
130.                                    5 "ONCE A YEAR +"
131.                                    6 "ONCE A YEAR"/
132.                          V55 1 "DIDN'T DRINK"
133.                              2 "SPECIAL EVENTS"
134.                              3 "SIP TO TRY"
135.                              4 "ONCE/MONTH"
136.                              5 "2-3/MONTH"
137.                              6 "ONCE A WEEK"
138.                              7 "2-3/WEEK"
139.                              8 "4-5/WEEK"
140.                              9 "EVERY DAY"/
141.                          V56 1 "DIDN'T USE"
142.                              2 "ONE CIGARETTE"
143.                              3 "< ONE CIG/DAY"
144.                              4 "1-2 CIGS/DAY"
145.                              5 "3-5 CIGS/DAY"
146.                              6 "6-10 CIGS/DAY"
147.                              7 "11-15 CIGS/DAY"
148.                              8 "16-20 CIGS/DAY"
149.                              9 "> 20 CIGS/DAY"/
150.                           V57  TO  V71 1 "DIDN'T USE"
151.                               2 "1-2 TIMES"
152.                               3 "3-5 TIMES"
153.                               4 "6-9 TIMES"
154.                               5 "10-19 TIMES"
155.                               6 "20-39 TIMES"
156.                               7 "40 + TIMES"/V5 5 "GRAD SCHOOL"/
157.      FILE HANDLE  QUEENSV
158.      SAVE OUTFILE=QUEENSV
159.      FINISH
160.
```

The data bases **ALLCAN.DAT and XUSACAN** are used for the following calculations

CALCULATIONS FOR REWRITING VARIABLES FROM THE CANADIAN QUESTIONNAIRE TO MATCH ITEMS IN THE AMERICAN SAQ. NOTE: The "lifestyle" and "drug use" items found on the *Ontario Lifestyle, Alcohol, and Drug Questionnaire* were not calculated by Engs in the USA. The following SPSS is for a unix-mainframe. Please note that the questionnaire was a draft version and the spaces designated on the questionnaire do not match up with the variable spaces in the following SPSS program

```
TITLE 'WRITING CANADIAN DATA INTO USA DATA FORM'
DATA LIST FILE=ALLCAN.DAT RECORDS=1
  /SEX 4 AGE 5-6 RACE 7 CLASS 9 GRADE 10-11 RELIG 12 ROS 14
    MAJOR 18-19 HANGOR 35 VOMIT 36 DRIVCA 37 DRCARK 38 DWDRIV 39
    CLASSDR 40 CUTCLASD 41 MISHANG 42 DWI 43 CRITIC 44 LAW 45
    JOBLOST 46 LOWGRADE 47 SCHADMIN 48 FIGHT 49 TINKPROB 50
    DAMAGE 51 BEFREQ 55 BEAMT 56-57 WINE 58 WINAMT 59-60 LIQ 61 LIQAMT 62-
    63
STRING MAJORX (A1)
RECODE MAJOR(0="J") (1="B") (2="P") (3="M") (4="B") (5="E") (6="L")
    (7="K") (8="A") (9="O") (10="O") INTO MAJORX
IF (GRADE GE 90)GPA=1
IF  (GRADE  GE 85 AND GRADE LT 90)GPA=2
IF  (GRADE GE 80  AND GRADE LT 85)GPA=3
IF  (GRADE GE 75 AND GRADE LT 80)GPA=4
IF   (GRADE GE 70 AND GRADE LT 75)GPA=5
IF   (GRADE LT 70)GPA=6
RECODE RACE(2,3=4) (1=2) (6=1) INTO RACEX
RECODE RELIG      (7,6=5) (2=3) (4=2) (3=4) (1=1) INTO RELIGX
RECODE  BEFREQ  (2=5) (3=4) (4=3) (5=2) (6=1) (else=sysmis)
RECODE WINE  (2=5) (3=4) (4=3) (5=2) (6=1) (else=sysmis)
RECODE LIQ  (2=5) (3=4) (4=3) (5=2) (6=1) (else=sysmis)
RECODE BEAMT (1,2=4) (3,4=3) (5,6=3) (7 thru hi =1) (else=sysmis)
RECODE WINAMT (1,2=4) (3,4=3) (5,6=3) (7 thru hi =1) (else=sysmis)
RECODE LIQAMT (1,2=4) (3,4=3) (5,6=3) (7 thru hi =1) (else=sysmis)
COMPUTE COUNTRY=2
WRITE OUTFILE=XCANALL
  / 1 SEX  9 AGE  10-11 MAJORX 12 (A) CLASS  13
     GPA 14 RACEX  15 RELIGX 16  ROS 17
   BEFREQ 18 BEAMT 19 WINE 20 WINAMT 21 LIQ 22 LIQAMT 23 HANGOR TO DAMAGE
24-40
  /2 COUNTRY   76
EXECUTE
FINISH
```

VARIABLE LIST AND CALCULATION FOR DOING A T-TEST BETWEEN CANADA AND THE UNITED STATES

```
TITLE T-TEST FOR CANADIAN AND USA STUDY L988
DATA LIST file = XUSACAN RECORDS = 2
  /REGION SCHOOL COMM SIZE TYPE DPT SEX AGE MAJOR CLASS GPA
   RACE RELIG ROS BEFREQ BEAMT WINE WINAMT LIQ LIQAMT
   HANGOR VOMIT DRIVCAR DRCARK DRINKDR CLASSDR CUTLASS
   MISCLASS DWI CRITIC LAW JOBLOST LOWBGRAD SCHADMIN FIGHT
   TINKPROB DAMAGE COUNTRY (F1.0,F3.0,4F1.0,F1.0,F2.0,
   A1,5F1.0,23F1.0,39X/75X,F1.0)
IF   (AGE LE 20)AGE1=1
IF   (AGE GE 21)AGE1=2
RECODE   COUNTRY(MISSING=1)
RECODE MAJOR   ("A"=1)("B"=2)("C"=1)("D"=1)("E"=10)("F"=1)
               ("G"=7)("H"=10)("I"=1)("J"=10)("K"=11)("L"=7)
               ("M"=11)("N"=1)("O"=15)("P"=16)("Q"=1)("R"=15)
               ("S"=11)("T"=11)("U"=16)   INTO MAJORA
VALUE LABELS
    HANGOR TO DAMAGE  5  'AT LEAST 1,1LST YR'
                      4  'AT LEAST 1,2M,NOT YR'
                      3  'NOT DUR 2M,1 LST YR'
                      2  'ONCE IN MY LIFE'
                      1  'NOT HAPPENED'/
    REGION  1 'NE' 2 'NC' 3 'S' 4 'W'/
    COMM  1 'LESS 10,000' 2 'BET 100-500 THOUS' 3 'GT 500,000'/
    SIZE  1 'LT 10,000' 2 'CT 10,000'/
    TYPE  1 'PUBLIC' 2 'PRIVATE'/
    SCHOOL  9 'CATHOLIC' 8 'PROT' 7 'BLACK' 6 'OTHER'/
    SEX  1 'MALE' 2 'FEMALE'/
    CLASS  1 'FRESH' 2 'SOPH' 3 'JUNIOR' 4 'SENIOR' 5 'OTHER'/
    GPA  1 '4' 2 '3.5' 3 '3.0' 4 '2.5' 5 '2.0' 6 'LT 2.0'/
    RACE  1 'WHITE' 2 'BLACK' 3 'HISPANIC' 4 'ORIENTAL' 5 'IND' 6 'OTHER'/
    RELIG 1 'R.C.' 2 'JEW' 3 'PROT, ALLOW DRNK' 4 'PROT, NOT DRNK'
    6 'OTHER'/
    BEAMT WINAMT LIQAMT  1 '7+ GLASSES' 2 '5-6 GLASSES' 3 '3-4 GLASSES'
    4 '1-2 GLASSES' /
    MAJORA  1 'SOCIAL SCI' 2 'ARTS/HUM' 3 'PSYCH' 4 'PRE-SOCIAL'
    5 'NURSING' 6 'PRE-LAW' 7 'EDUCATION' 8 'PRE-MED' 9 'FORENSICS'
    10 'HEALTH SCI' 11 'PHYSICAL SCI' 12 'HPER' 13 'ENGINEERING'
    14 'RELIGION' 15 'OTHER/UNDEC' 16 'BUSINESS' 17 'TELECOM'
    18 'GENERAL STUDIES' 19 'COMPUTER SCI' 20 'BIOLOGY' 21 'ECON'/
    BEFREQ WINE LIQ  5 'EVERY DAT' 4 'AT LE 1ST WK NOT DAT'
    3 'ONCE MO,LESS WK' 2 'ONCE A YR,LESS MO' 1 'ONCE A YR OR LESS'
    0 'NOT AT ALL'/
    ROS  1 'VERY IMPT' 2 'NOT IMPT'
RECODE   SCHOOL (0,1,2,3,4,5=6)
RECODE HANGOR TO DAMAGE (1=5)(2=4)(4=2)(5=1)(3=3)(ELSE=SYSMIS)
MISSING VALUES  REGION TO AGE  CLASS TO ROS (999)
MISSING VALUES  MAJOR('9999')
```

```
COMMENT            KEEP MIS DAT  82 _ 71 DATA NOT  75.BLNK IS NO DRNK
IF   (SEX GT 2 OR SEX LT 0)SEX=0
COMMENT   CALCULATIONS TO GET PROBLEM SCORE
COMPUTE   PROB=0
IF   (HANGOR EQ 3 OR HANGOR EQ 4 OR HANGOR EQ 5) PROB=PROB+1
IF   (VOMIT EQ 3 OR VOMIT EQ 4 OR VOMIT EQ 5) PROB=PROB +1
IF   (DRIVCAR EQ 3 OR DRIVCAR EQ 4 OR DRIVCAR EQ 5) PROB=PROB + 1
IF   (DRCARK EQ 3 OR DRCARK EQ 4 OR DRCARK EQ 5) PROB=PROB + 1
IF   (DRINKDR EQ 3 OR DRINKDR EQ 4 OR DRINKDR EQ 5) PROB=PROB + 1
IF   (CLASSDR EQ 3 OR CLASSDR EQ 4 OR CLASSDR EQ 5) PROB=PROB + 1
IF   (CUTLASS EQ 3 OR CUTLASS EQ 4 OR CUTLASS EQ 5) PROB=PROB + 1
IF   (MISCLASS EQ 3 OR MISCLASS EQ 4 OR MISCLASS EQ 5) PROB=PROB + 1
IF   (DWI EQ 3 OR DWI EQ 4 OR DWI EQ 5) PROB=PROB + 1
IF   (CRITIC EQ 3 OR CRITIC EQ 4 OR CRITIC EQ 5) PROB =PROB + 1
IF   (LAW EQ 3 OR LAW EQ 4 OR LAW EQ 5) PROB=PROB + 1
IF   (JOBLOST EQ 3 OR JOBLOST EQ 4 OR JOBLOST EQ 5) PROB=PROB + 1
IF   (LOWBGRAD EQ 3 OR LOWBGRAD EQ 4 OR LOWBGRAD EQ 5)  PROB=PROB + 1
IF   (SCHADMIN EQ 3 OR SCHADMIN EQ 4 OR SCHADMIN EQ 5) PROB=PROB + 1
IF   (FIGHT EQ 3 OR FIGHT EQ 4 OR FIGHT EQ 5) PROB=PROB + 1
IF   (TINKPROB EQ 3 OR TINKPROB EQ 4 OR TINKPROB EQ 5) PROB=PROB + 1
IF   (DAMAGE EQ 3 OR DAMAGE EQ 4 OR DAMAGE EQ 5) PROB =PROB + 1
COMMENT I HAVE ALSO TRIED TO LEAVE THE ABOVE COMMAND IN AND TAKE
   AND TAKE OUT SYSMIS ON THE NEXT FEW LINES._
RECODE    BEAMT,WINAMT,LIQAMT(1=8)(2=6)(3=4)(4=2) (ELSE=SYSMIS)
RECODE  BEFREQ,WINE,LIQ(5=7.0)(4=3.5)(3=.5)(2=.12)(1=.02)(ELSE=SYSMIS)
COMPUTE   MEANB = BEFREQ*BEAMT
COMPUTE   MEANW = WINE * WINAMT
COMPUTE   MEANL = LIQ *  LIQAMT
COMPUTE   MEANT = SUM.1(MEANB,MEANW,MEANL)
COMMENT   CALCULATIONS TO GET ABS ALC FROM MOST FRQ DRUNK BEV
    IN TERMS OF AMOUNT DRUNK WEEKLY FROM GLICKMAN
T-TEST GROUPS=COUNTRY/VARIABLES=MEANB MEANW MEANL PROB MEANT
STATISTICS ALL
TEMPORARY
SELECT IF (SEX EQ 1)
T-TEST GROUPS = COUNTRY/VARIABLES = MEANB MEANW MEANL PROB MEANT
STATISTICS ALL
TEMPORARY
SELECT IF (SEX EQ 2)
T-TEST GROUPS = COUNTRY/VARIABLES = MEANB MEANW MEANL PROB MEANT
STATISTICS ALL
```

EXAMPLE OF A CHI-SQUARE (CROSSTABS) OUTPUT FOR DRINKS PER WEEK BETWEEN THE USA AND CANADIAN STUDENTS USING THE COMBINED DATA BASE

```
77  0  COMPUTE   MEANT = SUM.1(MEANB,MEANW,MEANL)
78  0  COMMENT   CALCULATIONS TO GET ABS ALC FROM MOST FRQ DRUNK BEV
79  0      IN TERMS OF AMOUNT DRUNK WEEKLY FROM GLICKMAN
80  0  IF   ( MEANT LT  .5)ALLMEAN=1
81  0  IF   (MEANT GE .5  AND  MEANT LE 7)ALLMEAN=2
82  0  IF   (MEANT GT 7 AND MEANT LE 14)ALLMEAN=3
```

```
 83  0  IF  (MEANT GT 14 AND MEANT LE 28)ALLMEAN=4
 84  0  IF  (MEANT GT 28 ) ALLMEAN=5
 85  0  VALUE LABELS ALLMEAN 1 "ABST"
 86  0                      2 "1-7 DNKS PER WEEK"
 87  0                      3 "8-14 DRINK"
 88  0                      4 "15-28 DRNKS"
 89  0                      5 "GT 28 DRNKS"
 90  0  CROSSTABS  VARIABLES= COUNTRY(1,2)
ALLMEAN(1,5),RELIG(1,5),ROS(1,2) SEX(1,2)
 91  0     AGE(18,22),MAJORA(1,16) RACE(1,2) GPA(1,6) CLASS(1,4)  /
 92  0     TABLES= COUNTRY BY
ALLMEAN,RELIG,ROS,SEX,AGE,MAJORA,RACE,GPA,CLASS/
 93  0  OPTIONS 1 18
 94  0  STATISTICS  ALL
0COUNTRY  by  ALLMEAN
```

		<.5	.5-7 DNKS	8-14 DRI	15-28 DR	GT 28 DR	
	Exp Val		PER WEE	NK	NKS	NKS	Row
*******>> Residual Std Res Adj Res		1	2	3	4	5	Total
COUNTRY	1	205	530	103	455	277	1570
		155.5	648.7	141.1	393.1	231.5	25.3%
		13.1%	33.8%	6.6%	29.0%	17.6%	
		33.4%	20.7%	18.5%	29.3%	30.3%	
		3.3%	8.6%	1.7%	7.3%	4.5%	
		49.5	-118.7	-38.1	61.9	45.5	
		4.0	-4.7	-3.2	3.1	3.0	
		4.8	-7.0	-3.9	4.2	3.7	
	2	409	2031	454	1097	637	4628
		458.5	1912.3	415.9	1158.9	682.5	74.7%
CINDY*******>>> closer this way		8.8%	43.9%	9.8%	23.7%	13.8%	
		66.6%	79.3%	81.5%	70.7%	69.7%	
		6.6%	32.8%	7.3%	17.7%	10.3%	
		-49.5	118.7	38.1	-61.9	-45.5	
		-2.3	2.7	1.9	-1.8	-1.7	
		-4.8	7.0	3.9	-4.2	-3.7	
Column Total		614 9.9%	2561 41.3%	557 9.0%	1552 25.0%	914 14.7%	6198 100.0%

THE FOLLOWING PROGRAM TAKES THE RAW DATA FROM THE ENGS DATA AND SELECTS CASES FROM THE MIDWEST AND WRITES A NEW DATA FILE USED IN COMPARISON BETWEEN THE TWO COUNTRIES

```
TITLE WRITING CASES FROM 87-88 DATA FOR REGION 2[THE MDIWEST] FOR CANADA
STUDY
DATA LIST FILE=ENGAL88 RECORDS=2
  / 1 REGION 1 V2 TO V11  2-11 MAJOR 12  (A) V13 TO V79 13-79
  /2 TIME 1
SELECT IF (REGION EQ 2)
RECODE V18 V20 V22 (1=5) (2=4) (3=3) (4=2) (5=1)
RECODE V19 V21 V23 (5=4)
WRITE OUTFILE=XE88MW
  /1  REGION 1  V2 TO V11  2-11 MAJOR 12  (A) V13 TO V79 13-79
 /2 TIME 1
EXECUTE
FINISH
```