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This document is part of a collection that serves two purposes. First, it is a digital archive for a sampling of unpublished documents, presentations, questionnaires and limited publications resulting from over forty years of research. Second, it is a public archive for data on college student drinking patterns on the national and international level collected for over 20 years. Research topics by Dr. Engs have included the exploration of hypotheses concerning the determinants of behaviors such as student drinking patterns; models that have examine the etiology of cycles of prohibition and temperance movements, origins of western European drinking cultures (attitudes and behaviors concerning alcohol) from antiquity, eugenics, Progressive Era, and other social reform movements with moral overtones-Clean Living Movements; biographies of health and social reformers including Upton Sinclair; and oral histories of elderly monks.

Citation for this item

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CALCULATIONS AND SCORING FOR THE AUSTRALIAN VERSION OF THE *STUDENT ALCOHOL QUESTIONNAIRE*

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1. RESEARCHERS NOTE THAT RELIABILITY AND VALIDITY INFORMATION FOR THE QUESTIONNAIRE ARE FOUND IN THE FOLLOWING PAPERS

See in particular this paper for details on calculations and scoring:

Engs, Ruth C. The drug taking patterns of nursing, medical, and pharmacy students in Brisbane, Australia, National Council on Alcoholism, Conference, (Nursing Section), New Orleans, April 10, 1981a. IUScholarWorks: <http://hdl.handle.net/2022/17185>

Engs, Ruth C. Drinking Patterns and Attitudes toward Alcoholism of Australian Human-Service Students. *Journal Studies on Alcohol*. 43 (5): 517-531, May 1982

Engs, R.C. "The drinking patterns and attitudes towards alcoholism of female tertiary helping professional studies in Brisbane, Australia," *Focus on Women*, 2(3)145-159, 1981b

Engs, Ruth C. The drug use patterns of helping profession students in Brisbane, Australia. *Drug and Alcohol Dependence* 6 : 231 – 246, 1980.

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

3. DUE TO COPY RIGHT ISSUES THE TOLAR-TAMARIN ATTITUDES SCALES HAVE BEEN REMOVED FROM THE QUESTIONNAIRE AND CALCULATIONS.

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

LT = less than

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.

VAR LABEL = definition of a variable GMSWD = GRAMS WINE ALC PER DAY

Data set (AUSTR_DATA.TXT) abbreviations at end of some lines. On the data set, abbreviations such as "MD1" found at the end of a line, refers to the major. The "1" refers to year in school; MD refers to medical students. All cases after this are from the course and year.

MD4= Last year Medical students

NURW1=First year nursing students at "W" nursing college, etc

QT1 = First year education student, etc

PH3=Last year pharmacy student, etc.

SW1=First year social work student, etc.

SEMB=Seminary students at "B" seminary

COPS=police students

OTH=other

.....
THE SPSS PROGRAM FOR A MAINFRAME COMPUTER WITH SCORING, TRANSFORMATION OF VARIABLES, and CALCULATIONS.

```
RUN NAME          PROGRAM FOR QUEENSLAND STUDY OF PRE PROFESSIONALS
DATA LIST FILE=   AUSTR_DATA.TXT RECORDS=1
VARIABLE LIST     SEX, AGE, COURSE, YEAR, RELIG, RELGOS, SOCIAL, BEER, WINE,
                  SPIRIT, TOBAC, PAINKI, COFFEE, TEA, COCAIN, STIM, SED, MJ,
                  TRANQ, OPIATE, ANTIHI, HALLUC, BEERAM, WINEAM, SPIRAM,
                  COFFAM, TEAAM, PAINAM, MJAM, TOBAM, V32 TO V55, PREPAL,
                  IMPTAL, PREPDR, IMPTDR
INPUT FORMAT      FIXED(8X, F1.0, 2F2.0, 19F1.0, 8F2.0, 28F1.0)
N OF CASES        UNKNOWN
MISSING VALUES   SEX TO HALLUC, V32 TO IMPTDR(0)
RECODE            RELIG (5=4)
VALUE LABEL       SEX (1) Males (2) Females/
                  COURSE (1)MED (2)NURS (3)LAW (4)TEACH (5)PHARM
                  (6) SOC WRK (7)SEMINARY (8) POLICE (9) OTHER
VAR LABEL         SOCIAL OCCUPATION OF HEAD OF HOUSE/
```

RELGOS RELIGIOSITY/
BEER FREQUENCY OF BEER DRUNK/

VALUE LABEL
COMMENT
IF
IF
VALUE LABELS
IF
IF
VALUE LABELS

TRANSFORMATION FOR DEMOGRAPHIC VARIABLES
(YEAR GT 1)YEAR1=2
(YEAR EQ 1)YEAR1=1
YEAR1 (2)LAST YEAR (1)FIRST YEAR STUDENTS
(RELGOS EQ 1 OR 2)ROS=2
(RELGOS EQ 3 OR 4)ROS=1
ROS (2) VERY RELIGIOUS (1) NOT RELIGIOUS

COMMENT

TRANSFORMATION OF THE SIX VARIABLES RELATED TO A PERSON'S FEELING OF PREPAREDNESS, IMPORTANCE OF STUDYING, AND READY TO DEAL WITH PATIENTS WITH ALCOHOLISM AND DRUG ABUSE ISSUES

VALUE LABELS

IF
IF
VAR LABEL
VALUE LABELS
IF
IF
VAR LABEL
VALUE LABELS
IF
IF
VAR LABEL
VALUE LABELS
IF
IF
VAR LABEL
VALUE LABELS
MISSING VALUES

PREPAL DOES PERSON FEEL PREPARED IN AREA OF ALC/
IMPTAL DOES PERSON FEEL ALC IS IMPORTANT AREA/
(PREPAL EQ 1 OR 2)PRA=1
(PREPAL EQ 3 OR 4)PRA=2
PRA PREPARED HANDLE ALCOHOLISM/
PRA(1) AGREE (2) DISAGREE HANDLE ALCOHOLISM
(IMPTAL EQ 1 OR 2)IMA=1
(IMPT EQ 3 OR 4)IMA=2
IMA IMPORTANCE OF ALCOHOLISM IN STUDIES/
IMA (1) AGREE (2) DISAGREE
(PREPDR EQ 1 OR 2)PRD=1
(PREPDR EQ 3 OR 4)PRD=2
PRD PREPARED TO DEAL WITH DRUG ABUSE PROB/
PRD (1) AGREE (2)DISAGREE
(IMPTDR EQ 1 OR 2)IMD=1
(IMPTDR EQ 3 OR 4)IMD=2
IMD IMPORTANCE OF DRUG ABUSE IN STUDIES/
IMD (1) AGREE (2) DISAGREE
PRA TO IMD(0)

COMMENT

THE FOLLOWING INFORMATION IS FOR TRANSFORMATIONS of Q-F LEVEL OF ABSOLUTE ALCOHOL INTO GRAMS.

COMMENT

CALCULATIONS FOR ABSOLUTE ALCOHOL OF WINE INTO GRAMS/DAY

COMPUTE
IF
IF
IF
IF
IF
IF
IF
COMPUTE
COMPUTE
COMPUTE
COMPUTE

GMS WIN=WINEAM*8.2
(WINE EQ 1)GMSWYR=GMSWIN*365
(WINE EQ 2)GMSWYR=GMSWIN*182
(WINE EQ 3)GMSWYR=GMSWIN*78
(WINE EQ 4)GMSWYR=GMSWIN*34
(WINE EQ 5)GMSWYR=GMSWIN*3.5
(WINE EQ 6)GMSWYR=GMSWIN*1.0
(WINE EQ 7 OR 8)GMSWYR=0
GMSWD=GMSWYR/365
MLWD=GMSWD*10.4/8.2
LITWY=MLWD*365/1000
WINEYR=LITWY*90.0/10.4

```

IF      (GMSWD GE 80)GMWINE=6
IF      (GMSWD GE 60 AND LT 80)GMWINE=5
IF      (GMSWD GE 40 AND LT 60)GMWINE=4
IF      (GMSWD GE 20  AND LT 40)GMWINE=3
IF      (GMSWD GT 0  AND LT 20)GMWINE=2
IF      (GMSWD EQ 0)GMWINE=1
VALUE LABELS   GMWINE (5) GE 60 AND LT 80 (4)  GE 40 AND LT 60 GM
                (3)GE20 AND LT 40 (2)GT 0 AND LT 20 (1)NO GMS WINE DAY
                (6)GT 80 GMS WINE
IF      (GMSWD GE 80)WINEDR=5
IF      (GMSWD GE 60 AND LT 80)WINEDR=4
IF      (GMSWD GE 40 AND LT 60)WINEDR=3
IF      (GMSWD GE 20  AND LT 40)WINEDR=2
IF      (GMSWD GT 0  AND LT 20)WINEDR=1
VALUE LABELS   WINEDR (4)GE 60 AND LT 80 GMS (3) GE 40 AND LT 60 GMS
                (2)GE 20 AND LT 40 (1)GT 0 AND LT 20 (5)GE 80 GMS WINE DA
VAR LABEL      GMSWD GRAMS WINE ALC PER DAY/ WINEYR LITERS WINE DRUNK
                PER YEAR/ GMWINE GMS ALC IN WINE AT DIFF LEVELS/
                WINEDR GMS ALC IN WINE OF DRINKERS/

```

COMMENT CALCULATIONS FOR ABSOLUTE ALCOHOL OF BEER INTO GRAMS/DAY

```

COMPUTE      GMSBER=BEERAM*10.4
IF      (BEER EQ 1)GMSBYR=GMSBER*365
IF      (BEER EQ 2)GMSBYR=GMSBER*182
IF      (BEER EQ 3)GMSBYR=GMSBER*78
IF      (BEER EQ 4)GMSBYR=GMSBER*34
IF      (BEER EQ 5)GMSBYR=GMSBER*3.5
IF      (BEER EQ 6)GMSBYR=GMSBER*1.0
IF      (BEER EQ 7 OR 8)GMSBYR=0
COMPUTE      GMSBD=GMSBYR/365
COMPUTE      MLBD=GMSBD*13.7/10.4
COMPUTE      LITBY=MLBD*365/1000
COMPUTE      BEERYR=LITBY*285/13.7
IF      (GMSBD GE 80)GMBEER=6
IF      (GMSBD GE 60 AND LT 80)GMBEER=5
IF      (GMSBD GE 40 AND LT 60)GMBEER=4
IF      (GMSBD GE 20  AND LT 60)GMBEER=3
IF      (GMSBD GT 0  AND LT 20)GMBEER=2
IF      (GMSBD EQ 0)GMBEER=1
VALUE LABELS   GMBEER (6)GE 80 (5) GE 60 AND LT 80 (4)GE 40 AND LT 60
                (3) GE 20 AND LT 40 (2) GT 0 AND LT 20 (1) NO BEER GMS
IF      (GMSBD GE 80)BEERDR=5
IF      (GMSBD GE 60 AND LT 80)BEERDR=4
IF      (GMSBD GE 40 AND LT 60)BEERDR=3
IF      (GMSBD GE 20  AND LT 40)BEERDR=2
IF      (GMSBD GT 0  AND LT 20)BEERDR=1
VALUE LABELS   BEERDR (4)GE 60 AND LT 80 GMS (3) GE 40 AND LT 60GMS
                (2) GE 20 AND LT 40 (1)GT 0 AND LT 20 (5)GE 80
VAR LABEL      BEERDR GMS ALC IN BEER OF BEER DRINKERS PER DAYY/
                GMBEER GMS ALC IN BEER PER DAY AT DIFF LEVELS/
                BEERYR LIT BEER DRUNK PER YEAR/
                GMSBD GMS ALC I BEER PER DAY DRNK/

```


VALUE LABELS ALCDR (5)GE 80 (4) 60 AND LT 80 (3) GT 40 AND LT 60
 (2) GT 20 AND LT 40 (1) GT 0 AND LT 20
VAR LABEL GMALC GMS ABS ALC PER DAY IN LEVELS/
 ALCDR GMS ABS ALC OF DRINKERS PER DAY IN LEVELS/

**COMMENT TRANSFORMATION INTO QUANTITY FREQUENCY LEVEL FOR COFFEE,
 TEA, MARIJUANA, PAINKILLERS, CIGARETTES. FOR OTHER DRUG
 VARIABLES USE PERCENT WHO ANSWERED EACH STEM.**

COMMENT CALCULATIONS TO GET MG CAFFEINE IN COFFEE PER DAY

IF (COFFEE EQ 1) COFFEY=COFFAM*365
IF (COFFEE EQ 2) COFFEY=COFFAM*182
IF (COFFEE EQ 3) COFFEY=COFFAM*78
IF (COFFEE EQ 4) COFFEY=COFFAM*34
IF (COFFEE EQ 5) COFFEY=COFFAM*3.5
IF (COFFEE EQ 6) COFFEY=COFFAM*1.0
IF (COFFEE EQ 7 OR 8) COFFEY=0
COMPUTE COFFED = COFFEY/365
COMPUTE COFFEW=COFFED*7
COMPUTE COFFGD=COFFED*125
COMPUTE COFFGW=COFFEW*125
IF (COFFGD GE 750) COFLEV=4
IF (COFFGD GE 250 AND LT 750) COFLEV=3
IF (COFFGD GT 0 AND LT 250) COFLEV=2
IF (COFFGD EQ 0) COFLEV=1
VALUE LABELS COFLEV (4) GE 750MG DAY (3)GE 250 AND LT 750 MG D
 (2)GT 0 AND LT 250 MG DAY (1)NO COFFEE PER DAY
VAR LABEL COFFED NO. CUPS COFFEE DRANK PER DAY/
 COFFEW NO. CUPS COFFEE DRUNK PER WEEK/
 COFFGD MG OF COFFEE DRUNK PER DAY/
 COFFGW MG COFFEE DRUNK PER WEEK/

COMMENT CALCULATIONS TO GET MG OF CAFFEINE IN TEA PER DAY

IF (TEA EQ 1) TEAY=TEAAM*365
IF (TEA EQ 2) TEAY=TEAAM*182
IF (TEA EQ 3) TEAY=TEAAM*78
IF (TEA EQ 4) TEAY=TEAAM*34
IF (TEA EQ 5) TEAY=TEAAM*3.5
IF (TEA EQ 6) TEAY=TEAAM*1.0
IF (TEA EQ 7 OR 8) TEAY=0
COMPUTE TEADAY=TEAY/365
COMPUTE TEAWK=TEADAY*7
COMPUTE MGTD=TEADAY*41
COMPUTE MGTW=TEADAY*41
IF (MGTD GE 750) TEALEV=4
IF (MGTD GE 250 AND LT 750) TEALEV=3
IF (MGTD GT 0 AND LT 250) TEALEV=2
IF (MGTD EQ 0) TEALEV=1

**COMMENT CALCULATIONS TO GET TOTAL MG OF CAFFEINE PER DAY FROM
 BOTH COFFEE AND TEA**

```
COMPUTE          CAFEIN=MGTD + COFFGD
IF              (CAFEIN GE 750)XAN=4
IF              (CAFEIN GE 250 AND LT 750)XAN=3
IF              (CAFEIN GT 0 AND LT 250)XAN=2
IF              (CAFEIN EQ 0)XAN=1
VAR LABEL      XAN AMOUNT OF CAFFEIN PER DAY FROM COFF AND TEA
VALUE LABELS   XAN (4) GE 750 MG CAFFEIN DAY IN BEV (3)GT 250 AND
                LT 750 MG CAF (2) GT 0 AND LT 250 (1)NO COF OR TEA
VAR LABEL      CAFEIN MG CAFEIN PER DAY FROM COF AND TEA
VALUE LABELS   TEALEV (4) GE 750 MG CAFFEIN PER DAY
                (3)GE 250 AND LT 750 MG CAFEIN PER DAY
                (2) GT 0 AND LT 250 MG CAFFEIN PER DAY
                (1)NO TEA DRANK PER DAY
VAR LABEL      TEADAY NO. CUPS TEA PER DAY/TEAWK NO. CUPS TEA PER WK/
                MGTD MG CAFFEIN IN TEA PER DAY/MGTW MG CAFFEIN IN TEA
                PER WEEK/TEALEV LEVEL CAFFEIN PER DAY IN TEA/
```

**COMMENT CALCULATIONS TO GET NUMBER of JOINTS OF MARIJUANA PER WEEK
AND MONTH**

```
IF              (MJ EQ 1)MJY=MJAM*365
IF              (MJ EQ 2)MJY=MJAM*182
IF              (MJ EQ 3)MJY=MJAM*78
IF              (MJ EQ 4)MJY=MJAM*34
IF              (MJ EQ 5)MJY=MJAM*3.5
IF              (MJ EQ 6)MJY=MJAM*1.0
IF              (MJ EQ 7 OR 8)MJY=0
COMPUTE        MJD =MJY/365
COMPUTE        MJW=MJD*7
COMPUTE        MJM=MJW*4
IF              (MJW GE 7)MJLEV=3
IF              (MJW LT 7 AND GE 3)MJLEV=2
IF              (MJW LT 3 AND GE 1)MJLEV=1
VALUE LABELS   MJLEV(3)OVER 7 JOINTS A WEEK (2)GT 3 AND LT 7 JOINTS
                WEEK (1)GE 1 AND LT 3 JOINTS PER WEEK
IF              (MJW GE 7)MJLEVL=4
IF              (MJW LT 7 AND GE 3)MJLEVL=3
IF              (MJW LT 3 AND GE 1)MJLEVL=2
IF              (MJW EQ 0)MJLEVL=1
VALUE LABELS   MJLEVL (4)OVER 7 JOINTS A WEEK (3)GT 3 AND LT 7 JOINTS
                WEEK (2)LT 3 AND GT 1 JOINT WEEK (1)NON MJ USER
IF              (MJM GE 4)MJMON=3
IF              (MJM GT 1 AND LT 4)MJMON=2
IF              (MJM GT 0 AND LT 1)MJMON=1
VALUE LABELS   MJLEVL (3) 4 JOINTS A MONTH (2)LT 4 AND GT 1 JOINT MON
                (1) GT 0 AND LT 1 JOINT A MONTH
IF              (MJM GE 4)MJMON1=4
IF              (MJM LT 4 AND GE 1)MJMON1=3
IF              (MJM GT 0 AND LT 1)MJMON1=2
IF              (MJM EQ 0)MJMON1=1
VALUE LABELS   MJMON1 (4)GE 4 JOINTS A MONTH (3)LT 4 AND GE 1 JOINT
                (2) GT 0 AND LT 1 JOINT A MONTH (1)NON MJ USER
VAR LABEL      MJD NO. JOINTS PER DAY/ MJW NO. JOINTS PER WEEK/
```


MJM NO. JOINTS PER MONTH/ MJLEV MJ SMOKED IN USERS/
MJLEVL MJ JOINTS SMOKED PLUS NON USERS/MJMON LEVEL OF MJ
SMOKED IN USERS/ MJMON1 MJ SMOKED OR NOT SMOKED PER
MONTH

COMMENT CALCULATIONS TO GET NUMBER PAIN MEDS TAKEN PER DAY

IF (PAINKI EQ 1) PAINY=PAINAM*365
IF (PAINKI EQ 2) PAINY=PAINA M*182
IF (PAINKI EQ 3) PAINY=PAINAM*78
IF (PAINKI EQ 4) PAINY=PAINAM*34
IF (PAINKI EQ 5) PAINY=PAINAM*3.5
IF (PAINKI EQ 6) PAINY=PAINAM*1.0
IF (PAINKI EQ 7 OR 8) PAINY=0
COMPUTE PAIND=PAINY/365
COMPUTE PAINW=PAIND*7
IF (PAIND GE 20) PAINLE=4
IF (PAIND GE 2 AND LT 20) PAINLE=3
IF (PAIND GT 0 AND LT 2) PAINLE=2
IF (PAIND EQ 0) PAINLE=1
VALUE LABELS PAINLE (4)GT 20 PILLS PER DAY (3)GE 2 AND LT 20 PILLS PER
DAY (2)LT 2 AND GT 0 PILLS (1)NO PILLS PER DAY
IF (PAIND GE 2) PAIN2=2
IF (PAIND LT 2) PAIN2 =1
VALUE LABELS PAIN2 (2) GT 2 PILLS PER DAY (1) LLT 1 PILL PER DAY
VAR LABEL PAIND NO. PAIN PILLS PER DAY/PAINW NO. PAIN PILL WEEK/
PAINLE LEVEL OF PAIN PILLS PER DAY/PAIN2 LEVEL PILLS CONS
PER DAY

COMMENT CALCULATIONS TO GET NUMBER OF CIGARETTES SMOKED PER DAY

IF (TOBAC EQ 1) TOBACY=TOBAM*365
IF (TOBAC EQ 2) TOBACY=TOBAM*182
IF (TOBAC EQ 3) TOBACY=TOBAM*78
IF (TOBAC EQ 4) TOBACY=TOBAM*34
IF (TOBAC EQ 5) TOBACY=TOBAM*3.5
IF (TOBAC EQ 6) TOBACY=TOBAM*1.0
IF (TOBAC EQ 7 OR 8) TOBACY=0
COMPUTE TOBDAY=TOBACY/365
VAR LABEL TOBDAY NO. CIGS SMOKED PER DAY/
IF (TOBDAY GE 40) CIGS=5
IF (TOBDAY GE 20 AND LT 40) CIGS=4
IF (TOBDAY GE 10 AND LT 20) CIGS=3
IF (TOBDAY GT 0 AND LT 10) CIGS=2
IF (TOBDAY EQ 0) CIGS=1
RECODE CIGS (5=4)
VAR LABEL CIGS NO. CIG SMOKED PER DAY IN LEVELS/
VALUE LABELS CIGS (5)GT 40 CIGS PER DAY (4) GE 20
(3) GE 10 AND LT 40 CIGS (2) GT 0 AND LT 10 CIGS
(1) NO CIGS PER DAY
IF (TOBDAY GE 25) SMOKE =2
IF (TOBDAY GE 1 AND LT 25) SMOKE=1
VAR LABEL SMOKE CIGS SMOKED AMONG SMOKERS/
VALUE LABELS SMOKE (2) GT 25 CIGS PER DAY (1)GT 1 AND LT 25 CIGS PER
DAY
IF (TOBDAY GE 25) SMOKE1=3

```
IF          (TOBDAY GT 1 AND LT 25) SMOKE1=2
IF          (TOBDAY LT 1) SMOKE1=1
VAR LABEL  SMOKE1 LEVELS SMOKED AND NON SMOKED PER DAY/
VALUE LABELS SMOKE1 (3)GT 25 CIGS PER DAY (2) GT 1 AND LT 25 CIGS
           (1)  DON'T SMOKE
```

COMMENT **NOW PUT CROSSTABS, ANOVA, T-TEST, ETC. CALCULATIONS AFTER THIS IF USING SPSS ON MAINFRAME COMPUTER. THE EXAMPLE BELOW COMPARES THE PERCENT OF MALES AND FEMALES (SEX) IN FIRST AND LAST YEAR IN SCHOOL (YEAR1) AND IN EACH COURSE OF STUDY (MAJOR)**

```
CROSSTABS   VARIABLES=SEX(1,2)  YEAR1(1,2)  COURSE(1,10)
            TABLES=SEX BY YEAR1,COURSE/
STATISTICS  ALL
READ INPUT DATA
FINISH
```

COMMENT THE BELOW SELECTS FOR MALES [TEMPORARY (SEX EQ 1)]. THE T-TEST CALCULATIONS COMPARE THE MEAN GRAMS OF ABSOLUTE ALCOHOL (GABSAL) AND GRAMS OF ABSOLUTE ALCOHOL IN BEER (GMSBD), WINE (GMSWD), AND SPIRITS (GMSSD) PER DAY CONSUMED BETWEEN FIRST YEAR AND FINAL YEAR MALE STUDENTS (YEAR1).

```
TEMPORARY
SELECT IF (SEX EQ 1)
T-TEST GROUPS=YEAR1/VARIABLES= GABSAL GMSBD GMSWD GMSSD
OPTIONS 1 18
STATISTICS ALL
```

Again go to the following paper for details. Engs, Ruth C. The drug taking patterns of nursing, medical, and pharmacy students in Brisbane, Australia, National Council on Alcoholism, Conference, (Nursing Section), New Orleans, April 10, 1981a. IUScholarWorks: <http://hdl.handle.net/2022/17185>