Study A Survey Data After Merging with HINTS

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Steps to use the data I provided

1. Create a directory called `431projectA` on your computer.
2. Create a subdirectory called `studyAdata` on your computer, underneath `431projectA`.
3. Place the five data sets in your `studyAdata` directory.
    - Be sure to use the revised data sets posted on 2019-11-22 to
4. Create a subdirectory called `R` on your computer, also underneath `431projectA`.
5. Place the `Love-boost.R` file in the `R` subdirectory you just created.
6. Open R Studio
7. Create a new R project in your `431projectA` directory using **File ... New Project** and then select Existing Directory, and feed it your `431projectA` main directory. That is where your R Markdown files will live.

With this setup in mind, I then used the following code to obtain the results below.

Initial Setup

```
knitr::opts_chunk$set(comment = NA)

library(magrittr); library(here); library(janitor)
library(readxl); library(tidyverse)
```

Read in the data files

```
studyA_raw1 <- read_csv(here("studyAdata", "studyA-2019-student-data-01.csv"))

studyA_raw2 <- read_xls(here("studyAdata", "studyA-2019-student-data-02.xls"))

studyA_raw3 <- read_xls(here("studyAdata", "studyA-2019-student-data-03.xls"))

studyA_raw4 <- read_csv(here("studyAdata", "studyA-2019-student-data-04.csv"))

studyA_raw5 <- read_xls(here("studyAdata", "studyA-2019-student-data-05.xls"))
```

Combine raw2 and raw3

```
studyA_raw23 <- bind_rows(studyA_raw2, studyA_raw3)

dim(studyA_raw23)
```

```
[1] 67 75
```

Combine raw4 and raw5

```
studyA_raw45 <- bind_rows(studyA_raw4, studyA_raw5)

dim(studyA_raw45)
```

```
[1] 67 76
```

Merge raw1 with raw23

```
studyA_raw123 <- inner_join(studyA_raw1, studyA_raw23, by = "subject")

dim(studyA_raw123)
```

```
[1] 67 90
```

Merge raw123 with raw45

```
studyA_raw12345 <- inner_join(studyA_raw123, studyA_raw45, by = "subject")

dim(studyA_raw12345)
```

```
[1]  67 165
```

Change character variables to factors throughout, except "subject"

```
studyA_clean <- studyA_raw12345 %>%
    mutate_if(is.character, as.factor) %>%
    mutate(subject = as.character(subject))

studyA_clean
```

```
# A tibble: 67 x 165
   subject Q001  Q002  Q003  Q004  Q005  Q006  Q007   Q008 Q009   Q010
   <chr>   <fct> <fct> <fct> <fct> <fct> <fct> <fct> <dbl> <fct> <dbl>
 1 R-01    Yes   Yes   No    Yes   No    No    Yes    1995 Very~     3
 2 R-02    No    No    Yes   No    Yes   Yes   No     1986 Exce~    22
 3 R-03    Yes   Yes   Yes   Yes   Yes   No    No     1993 Exce~    16
 4 R-04    Yes   Yes   No    Yes   Yes   No    No     1996 Very~    14
 5 R-05    Yes   Yes   No    Yes   No    Yes   No     1980 Very~    60
 6 R-06    Yes   Yes   No    No    No    Yes   No     1983 Exce~    28
 7 R-07    No    Yes   Yes   Yes   No    No    No     1994 Fair     72
 8 R-08    No    Yes   No    No    Yes   No    No     1999 Very~    20
 9 R-09    No    No    No    No    No    Yes   No     1984 Very~    60
10 R-10    No    No    Yes   Yes   No    Yes   No     1989 Good      3
# ... with 57 more rows, and 154 more variables: Q011 <dbl>, Q012 <dbl>,
#   Q013 <dbl>, Q014 <dbl>, Q015 <dbl>, Q016 <fct>, Q017 <fct>,
#   Q018 <fct>, Q019 <fct>, Q020 <fct>, Q021 <fct>, Q022 <fct>,
#   Q023 <fct>, Q024 <fct>, Q025 <fct>, Q026 <fct>, Q027 <dbl>,
#   Q028 <fct>, Q029 <fct>, Q030 <fct>, Q031 <dbl>, Q032 <dbl>,
```

```
#    Q033 <dbl>, Q034 <dbl>, Q035 <dbl>, Q036 <dbl>, Q037 <dbl>,
#    Q038 <dbl>, Q039 <dbl>, Q040 <dbl>, Q041 <dbl>, Q042 <dbl>,
#    Q043 <fct>, Q044 <fct>, Q045 <fct>, Q046 <fct>, Q047 <dbl>,
#    Q048 <fct>, Q049 <fct>, Q050 <fct>, Q051 <fct>, Q052 <fct>,
#    Q053 <fct>, Q054 <fct>, Q055 <fct>, Q056 <dbl>, Q057 <dbl>,
#    Q058 <dbl>, Q059 <dbl>, Q060 <dbl>, Q061 <dbl>, Q062 <dbl>,
#    Q063 <dbl>, Q064 <dbl>, Q065 <dbl>, Q066 <dbl>, Q067 <dbl>,
#    Q068 <dbl>, Q069 <dbl>, Q070 <dbl>, Q071 <fct>, Q072 <fct>,
#    Q073 <fct>, Q074 <fct>, Q075 <fct>, Q076 <fct>, Q077 <fct>,
#    Q078 <fct>, Q079 <fct>, Q080 <fct>, Q081 <fct>, Q082 <fct>,
#    Q083 <fct>, Q084 <fct>, Q085 <dbl>, Q086 <dbl>, Q087 <dbl>,
#    Q088 <dbl>, Q089 <dbl>, PSS_01 <fct>, PSS_02 <fct>, PSS_03 <fct>,
#    PSS_04 <fct>, PSS_05 <fct>, PSS_06 <fct>, PSS_07 <fct>, PSS_08 <fct>,
#    PSS_09 <fct>, PSS_10 <fct>, HIOS_1 <dbl>, HIOS_2 <dbl>, HIOS_3 <dbl>,
#    HIOS_4 <dbl>, HIOS_5 <dbl>, HIOS_6 <dbl>, HIOS_7 <dbl>, HIOS_8 <dbl>,
#    FCS_1 <fct>, FCS_2 <fct>, FCS_3 <fct>, ...
```

Hmisc::describe for the entire data set

```
Hmisc::describe(studyA_clean)
```

```
studyA_clean

 165  Variables      67  Observations
--------------------------------------------------------------------------------
subject
       n  missing distinct
      67        0       67

lowest : R-01 R-02 R-03 R-04 R-05, highest: R-63 R-64 R-65 R-66 R-67
--------------------------------------------------------------------------------
Q001
       n  missing distinct
      67        0        2

Value          No   Yes
Frequency      24    43
Proportion  0.358 0.642
--------------------------------------------------------------------------------
Q002
       n  missing distinct
      67        0        2

Value          No   Yes
Frequency      20    47
Proportion  0.299 0.701
--------------------------------------------------------------------------------
Q003
       n  missing distinct
      67        0        2

Value          No   Yes
```

```
Frequency      33     34
Proportion 0.493 0.507
------------------------------------------------------------------------------
Q004
      n  missing distinct
     67        0        2

Value          No    Yes
Frequency      18     49
Proportion 0.269 0.731
------------------------------------------------------------------------------
Q005
      n  missing distinct
     67        0        2

Value          No    Yes
Frequency      28     39
Proportion 0.418 0.582
------------------------------------------------------------------------------
Q006
      n  missing distinct
     67        0        2

Value          No    Yes
Frequency      38     29
Proportion 0.567 0.433
------------------------------------------------------------------------------
Q007
      n  missing distinct
     67        0        2

Value          No    Yes
Frequency      58      9
Proportion 0.866 0.134
------------------------------------------------------------------------------
Q008
      n  missing distinct      Info      Mean       Gmd       .05       .10
     67        0       19     0.993      1991     6.066      1981      1984
    .25      .50      .75       .90       .95
   1988     1993     1995      1997      1998

Value       1969  1975  1980  1983  1984  1985  1986  1987  1988  1989
Frequency      1     1     2     2     2     3     1     2     3     2
Proportion 0.015 0.015 0.030 0.030 0.030 0.045 0.015 0.030 0.045 0.030

Value       1991  1992  1993  1994  1995  1996  1997  1998  1999
Frequency      5     5     8     8     6     8     2     3     3
Proportion 0.075 0.075 0.119 0.119 0.090 0.119 0.030 0.045 0.045
------------------------------------------------------------------------------
Q009
      n  missing distinct
     67        0        5

Value      Excellent     Fair     Good     Poor Very Good
```

```
Frequency          18          4          11          1          33
Proportion      0.269      0.060      0.164      0.015      0.493
-------------------------------------------------------------------------------
Q010
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       38    0.997    57.34    72.37      2.3      3.0
    .25      .50      .75      .90      .95
   13.0     28.0     60.0    193.0    260.4

lowest :   2   3   4   5  12, highest: 252 264 276 282 316
-------------------------------------------------------------------------------
Q011
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       19    0.991    67.55    4.451     61.0     62.0
    .25      .50      .75      .90      .95
   65.5     68.0     70.0     71.4     72.7

Value          57     58     60     61     62     63     64     65     66     67
Frequency       1      1      1      3      2      2      5      2      6      5
Proportion  0.015  0.015  0.015  0.045  0.030  0.030  0.075  0.030  0.090  0.075

Value          68     69     70     71     72     73     75     77     78
Frequency      11      7      7      7      3      1      1      1      1
Proportion  0.164  0.104  0.104  0.104  0.045  0.015  0.015  0.015  0.015
-------------------------------------------------------------------------------
Q012
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       39    0.998    156.1    33.88    115.9    120.0
    .25      .50      .75      .90      .95
  134.5    155.0    168.5    192.0    212.6

lowest : 102 110 112 115 118, highest: 200 218 223 245 260
-------------------------------------------------------------------------------
Q013
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       24    0.992    71.33    11.38     56.0     60.0
    .25      .50      .75      .90      .95
   64.5     72.0     76.0     80.0     90.8

lowest :  47  51  56  60  62, highest:  84  88  92  96 104
-------------------------------------------------------------------------------
Q014
      n  missing distinct     Info     Mean      Gmd
     67        0        7    0.962    2.269    1.928

Value           0      1      2      3      4      5      6
Frequency      12     11     18     13      3      6      4
Proportion  0.179  0.164  0.269  0.194  0.045  0.090  0.060
-------------------------------------------------------------------------------
Q015
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       11    0.964    7.011    1.829      4.3      5.0
    .25      .50      .75      .90      .95
    6.0      7.0      8.0      9.0      9.0
```

```
Value        0.00  4.00  5.00  6.00  7.00  7.50  7.75  8.00  9.00 10.00
Frequency       2     2     5    10    18     3     2    15     8     1
Proportion  0.030 0.030 0.075 0.149 0.269 0.045 0.030 0.224 0.119 0.015

Value       10.75
Frequency       1
Proportion  0.015
-------------------------------------------------------------------------------
Q016
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     39    28
Proportion 0.582 0.418
-------------------------------------------------------------------------------
Q017
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     10    57
Proportion 0.149 0.851
-------------------------------------------------------------------------------
Q018
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     12    55
Proportion 0.179 0.821
-------------------------------------------------------------------------------
Q019
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     29    38
Proportion 0.433 0.567
-------------------------------------------------------------------------------
Q020
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     11    56
Proportion 0.164 0.836
-------------------------------------------------------------------------------
Q021
      n  missing distinct
     67        0        2

Value         No   Yes
```

```
Frequency     29     38
Proportion 0.433 0.567
--------------------------------------------------------------------------------
Q022
       n  missing distinct
      67        0        2

Value          No   Yes
Frequency      53    14
Proportion 0.791 0.209
--------------------------------------------------------------------------------
Q023
       n  missing distinct
      67        0        2

Value          No   Yes
Frequency      61     6
Proportion 0.91  0.09
--------------------------------------------------------------------------------
Q024
       n  missing distinct
      67        0        6

Value        Excellent          Fair          Good I do not cook.
Frequency            4            15            22              2
Proportion       0.060         0.224         0.328          0.030

Value             Poor     Very Good
Frequency            5            19
Proportion       0.075         0.284
--------------------------------------------------------------------------------
Q025
       n  missing distinct
      67        0        6

Allergies (5, 0.075), Environment (3, 0.045), Health (7, 0.104), I have no
dietary restrictions (35, 0.522), Personal Decision (10, 0.149), Religious
(7, 0.104)
--------------------------------------------------------------------------------
Q026
       n  missing distinct
      67        0        6

Allergy Avoidance (4, 0.060), Do not follow a special diet (42, 0.627),
Halal (5, 0.075), Low carbohydrate (5, 0.075), Low sodium (1, 0.015),
Vegetarian (10, 0.149)
--------------------------------------------------------------------------------
Q027
       n  missing distinct    Info     Mean      Gmd
      67        0        8   0.903    4.672    2.786

Value          0     1     2     3     4     5     6     7
Frequency      6     4     9     5     1    10     2    30
Proportion 0.090 0.060 0.134 0.075 0.015 0.149 0.030 0.448
```

```
--------------------------------------------------------------------------------
Q028
      n  missing distinct
     67        0        5

1 - 200 calories (e.g. a granola bar) (7, 0.104), 201 - 400 calories (e.g.
a bowl of cereal with skim milk) (25, 0.373), 401 - 600 calories (e.g.
eggs and bacon) (19, 0.284), I do not eat breakfast (14, 0.209), More than
600 calories (2, 0.030)
--------------------------------------------------------------------------------
Q029
      n  missing distinct
     67        0       15

lowest : Cafe (i.e. Starbucks)                              Cafe (i.e. Starbucks), Fast food
highest: Cafe (i.e. Starbucks), Purchased online           Did not purchase coffee or tea
--------------------------------------------------------------------------------
Q030
      n  missing distinct
     67        0       51

lowest : Aldi, Constantinos Market                          Aldi, Costco, Marcs, Walmart
highest: Target, Whole Foods                                Trader Joes
--------------------------------------------------------------------------------
Q031
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       15    0.906    83.16    22.76       33       50
    .25      .50      .75      .90      .95
     74       90      100      100      100

Value          0     20     30     40     50     60     70     73     75     80
Frequency      1      1      2      1      4      3      4      1      2      5
Proportion 0.015  0.015  0.030  0.015  0.060  0.045  0.060  0.015  0.030  0.075

Value         85     89     90     95    100
Frequency      1      1     10      1     30
Proportion 0.015  0.015  0.149  0.015  0.448
--------------------------------------------------------------------------------
Q032
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       21    0.991    144.3    115.1     31.5     48.0
    .25      .50      .75      .90      .95
   60.0    100.0    200.0    300.0    335.0

lowest :  30  35  40  45  50, highest: 250 300 350 400 700
--------------------------------------------------------------------------------
Q033
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       13    0.981    78.04    18.33       43       50
    .25      .50      .75      .90      .95
     75       85       90       95       95

Value          3     30     40     50     60     70     75     80     85     86
Frequency      1      1      2      5      3      3      7     10     11      1
```

```
Proportion 0.015 0.015 0.030 0.075 0.045 0.045 0.104 0.149 0.164 0.015

Value          90    95   100
Frequency      14     6     3
Proportion 0.209 0.090 0.045
-------------------------------------------------------------------------------
Q034
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       12    0.976    5.388    3.158      1.3      2.6
    .25      .50      .75      .90      .95
    4.0      5.0      7.0      8.8     10.0

Value           0     1     2     3     4     5     6     7     8    10
Frequency       3     1     3     7    17     9     8     4     8     4
Proportion 0.045 0.015 0.045 0.104 0.254 0.134 0.119 0.060 0.119 0.060

Value          12    16
Frequency       2     1
Proportion 0.030 0.015
-------------------------------------------------------------------------------
Q035
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       11    0.972    3.239     2.45      0.0      1.0
    .25      .50      .75      .90      .95
    2.0      3.0      4.0      6.0      7.7

Value           0     1     2     3     4     5     6     7     8     9
Frequency       5     9    17     8    12     7     4     1     1     2
Proportion 0.075 0.134 0.254 0.119 0.179 0.104 0.060 0.015 0.015 0.030

Value          10
Frequency       1
Proportion 0.015
-------------------------------------------------------------------------------
Q036
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       12    0.971    3.075    3.445      0.0      0.0
    .25      .50      .75      .90      .95
    0.0      2.0      4.0      7.8     10.0

Value           0     1     2     3     4     5     6     7     9    10
Frequency      18     7    10    11     6     4     3     1     2     2
Proportion 0.269 0.104 0.149 0.164 0.090 0.060 0.045 0.015 0.030 0.030

Value          12    15
Frequency       2     1
Proportion 0.030 0.015
-------------------------------------------------------------------------------
Q037
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       17     0.98    10.61    5.035      4.3      5.0
    .25      .50      .75      .90      .95
    7.0     10.0     14.0     15.0     17.7
```

```
Value          2     3     4     5     6     7     8     9    10    12
Frequency      1     1     2     7     1     9     3     1    13     4
Proportion 0.015 0.015 0.030 0.104 0.015 0.134 0.045 0.015 0.194 0.060

Value         13    14    15    16    17    18    21
Frequency      1    14     4     1     1     1     3
Proportion 0.015 0.209 0.060 0.015 0.015 0.015 0.045
-------------------------------------------------------------------------------
Q038
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       17    0.986    18.48    17.01      3.0      5.0
    .25      .50      .75      .90      .95
    7.0     15.0     20.5     34.0     55.5

Value          0     1     3     5     7     8    10    15    18    20
Frequency      2     1     2    11     3     2     8    12     1     8
Proportion 0.030 0.015 0.030 0.164 0.045 0.030 0.119 0.179 0.015 0.119

Value         21    25    30    40    45    60   120
Frequency      1     4     5     1     2     3     1
Proportion 0.015 0.060 0.075 0.015 0.030 0.045 0.015
-------------------------------------------------------------------------------
Q039
      n  missing distinct     Info     Mean      Gmd
     67        0        9    0.971    2.657    2.859

Value          0     1     2     3     4     5     7     8    10
Frequency     16    13    12     5     6     5     7     1     2
Proportion 0.239 0.194 0.179 0.075 0.090 0.075 0.104 0.015 0.030
-------------------------------------------------------------------------------
Q040
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       17     0.99    6.149    5.843      0.0      0.0
    .25      .50      .75      .90      .95
    2.0      5.0      8.5     12.8     15.4

Value          0     1     2     3     4     5     6     7     8     9
Frequency      9     6     5     6     2     7     2     9     4     1
Proportion 0.134 0.090 0.075 0.090 0.030 0.104 0.030 0.134 0.060 0.015

Value         10    12    14    16    18    21    30
Frequency      8     1     3     1     1     1     1
Proportion 0.119 0.015 0.045 0.015 0.015 0.015 0.015
-------------------------------------------------------------------------------
Q041
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       12    0.978    4.851    3.791      0.0      1.6
    .25      .50      .75      .90      .95
    3.0      4.0      5.5      8.0      9.4

Value          0     1     2     3     4     5     6     7     8    10
Frequency      5     2     7    11    15    10     4     2     7     2
Proportion 0.075 0.030 0.104 0.164 0.224 0.149 0.060 0.030 0.104 0.030
```

```
Value         12    40
Frequency      1     1
Proportion 0.015 0.015
--------------------------------------------------------------------------------
Q042
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       46    0.998     68.3    55.54     10.6     13.0
    .25      .50      .75      .90      .95
   30.0     60.0    100.0    120.0    150.0

lowest :   3   4   5  10  12, highest: 125 150 152 160 370
--------------------------------------------------------------------------------
Q043
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     53    14
Proportion 0.791 0.209
--------------------------------------------------------------------------------
Q044
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     62     5
Proportion 0.925 0.075
--------------------------------------------------------------------------------
Q045
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     54    13
Proportion 0.806 0.194
--------------------------------------------------------------------------------
Q046
      n  missing distinct
     67        0        5

Value    Excellent      Fair      Good      Poor Very Good
Frequency        8        13        23         4        19
Proportion   0.119     0.194     0.343     0.060     0.284
--------------------------------------------------------------------------------
Q047
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       18    0.985    28.27    31.82      3.6      5.0
    .25      .50      .75      .90      .95
    8.5     15.0     30.0     72.0    114.0

Value          2     3     5     7    10    12    14    15    20    25
Frequency      1     3    12     1    11     1     1     7    10     1
Proportion 0.015 0.045 0.179 0.015 0.164 0.015 0.015 0.104 0.149 0.015
```

```
Value          30    45    50    60    90   100   120   180
Frequency       5     2     1     4     2     1     3     1
Proportion 0.075 0.030 0.015 0.060 0.030 0.015 0.045 0.015
--------------------------------------------------------------------------------
Q048
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     25    42
Proportion 0.373 0.627
--------------------------------------------------------------------------------
Q049
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     40    27
Proportion 0.597 0.403
--------------------------------------------------------------------------------
Q050
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     37    30
Proportion 0.552 0.448
--------------------------------------------------------------------------------
Q051
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     38    29
Proportion 0.567 0.433
--------------------------------------------------------------------------------
Q052
      n  missing distinct
     67        0        4

Value        Daily Frequently     Never     Rarely
Frequency       13         26         1         27
Proportion   0.194      0.388     0.015      0.403
--------------------------------------------------------------------------------
Q053
      n  missing distinct
     67        0        5

Value     Excellent      Fair      Good      Poor Very Good
Frequency         7         9        23         1        27
Proportion    0.104     0.134     0.343     0.015     0.403
--------------------------------------------------------------------------------
Q054
      n  missing distinct
```

```
          67           0           4

High (15, 0.224), I have not worked out in the past week (12, 0.179), Low
(13, 0.194), Medium (27, 0.403)
--------------------------------------------------------------------------------
Q055
        n  missing distinct
       67        0        8

Cat (8, 0.119), Cat, Dog (2, 0.030), Cat, Fish, Reptile, Other Kind of Pet
(1, 0.015), Dog (10, 0.149), Dog, Rabbit (1, 0.015), Fish (1, 0.015), I do
not have any pets (43, 0.642), Rabbit, Other Kind of Pet (1, 0.015)
--------------------------------------------------------------------------------
Q056
        n  missing distinct      Info      Mean       Gmd       .05       .10
       67        0       23     0.991      65.4     29.75      16.5      20.0
      .25      .50      .75      .90      .95
     50.0     72.0     80.0    100.0     100.0

lowest :   0   6  10  15  20, highest:  85  88  90  95 100
--------------------------------------------------------------------------------
Q057
        n  missing distinct      Info      Mean       Gmd       .05       .10
       67        0       20      0.99     66.94     20.28      40.0      50.0
      .25      .50      .75      .90      .95
     53.0     70.0     80.0     87.0      90.7

Value          10    25    40    45    50    51    55    60    63    65
Frequency       2     1     2     1    10     1     2     4     2     5
Proportion  0.030 0.015 0.030 0.015 0.149 0.015 0.030 0.060 0.030 0.075

Value          70    75    78    80    81    83    85    90    91    95
Frequency       9     4     1     9     1     1     5     3     1     3
Proportion  0.134 0.060 0.015 0.134 0.015 0.015 0.075 0.045 0.015 0.045
--------------------------------------------------------------------------------
Q058
        n  missing distinct      Info      Mean       Gmd       .05       .10
       67        0       26     0.996     47.84     37.52       0.0       7.4
      .25      .50      .75      .90      .95
     20.5     50.0     75.5     90.0      99.7

lowest :   0   5   9  10  15, highest:  87  90  95  99 100
--------------------------------------------------------------------------------
Q059
        n  missing distinct      Info      Mean       Gmd       .05       .10
       67        0       21      0.99     61.31     23.75        20        30
      .25      .50      .75      .90      .95
       50       70       75       85       90

lowest :   0  1 11 20 25, highest: 75 80 85 90 95
--------------------------------------------------------------------------------
Q060
        n  missing distinct      Info      Mean       Gmd       .05       .10
       67        0       24     0.991     37.03     32.29       0.0       3.0
```

```
     .25      .50      .75      .90      .95
    17.5     30.0     60.0     80.0     87.8

lowest :   0   5  10  14  15, highest:  85  89  90  95 100
-------------------------------------------------------------------------------
Q061
       n  missing distinct      Info     Mean      Gmd      .05      .10
      67        0       28     0.996    55.09    33.44     10.0     15.0
     .25      .50      .75      .90      .95
    30.0     60.0     80.0     90.0     98.5

lowest :   0   1  10  15  18, highest:  85  89  90  95 100
-------------------------------------------------------------------------------
Q062
       n  missing distinct      Info     Mean      Gmd
      67        0        5     0.903    2.343    1.329

Value           1      2      3      4      5
Frequency      18     28      6     10      5
Proportion  0.269  0.418  0.090  0.149  0.075
-------------------------------------------------------------------------------
Q063
       n  missing distinct      Info     Mean      Gmd
      67        0        6     0.703   0.5821   0.9064

Value           0      1      2      3      4      6
Frequency      44     16      2      3      1      1
Proportion  0.657  0.239  0.030  0.045  0.015  0.015
-------------------------------------------------------------------------------
Q064
       n  missing distinct      Info     Mean      Gmd      .05      .10
      67        0       21     0.993     10.7    9.955      1.0      2.0
     .25      .50      .75      .90      .95
     4.0      7.0     16.0     25.0     29.4

lowest :   0  1  2  3  4, highest: 21 25 26 28 30
-------------------------------------------------------------------------------
Q065
       n  missing distinct      Info     Mean      Gmd      .05      .10
      67        0       32     0.995    51.47    27.72     10.3     18.0
     .25      .50      .75      .90      .95
    35.5     50.0     65.0     80.8     84.7

lowest :   4   8  10  11  12, highest:  84  85  90 100 126
-------------------------------------------------------------------------------
Q066
       n  missing distinct      Info     Mean      Gmd      .05      .10
      67        0       14      0.83    12.66    3.321      7.0      7.0
     .25      .50      .75      .90      .95
    10.5     14.0     14.0     14.0     17.4

Value           6      7      8      9     10     11     12     13     14     15
Frequency       2      7      2      1      5      2      3      2     37      1
Proportion  0.030  0.104  0.030  0.015  0.075  0.030  0.045  0.030  0.552  0.015
```

```
Value           16     18     20     21
Frequency        1      1      2      1
Proportion 0.015 0.015 0.030 0.015
--------------------------------------------------------------------------------
Q067
      n  missing distinct      Info      Mean       Gmd       .05       .10
     67        0       11     0.966     4.209     4.908       0.0       0.0
    .25      .50      .75       .90       .95
    0.0      3.0      7.0      11.6      14.0

Value            0      1      2      3      4      5      6      7     10     14
Frequency       19      8      6      5      2      3      3     13      1      6
Proportion 0.284 0.119 0.090 0.075 0.030 0.045 0.045 0.194 0.015 0.090

Value           21
Frequency        1
Proportion 0.015
--------------------------------------------------------------------------------
Q068
      n  missing distinct      Info      Mean       Gmd       .05       .10
     67        0       17     0.985     6.776     3.642      2.65      3.00
    .25      .50      .75       .90       .95
   5.00     6.00     8.00     10.00     13.40

Value         0.00   2.25   2.50   3.00   3.25   4.00   5.00   6.00   7.00   7.50
Frequency        1      1      2      4      1      6     13     10      5      1
Proportion 0.015 0.015 0.030 0.060 0.015 0.090 0.194 0.149 0.075 0.015

Value         8.00   9.00  10.00  12.00  14.00  15.00  20.00
Frequency        8      2      7      2      1      2      1
Proportion 0.119 0.030 0.104 0.030 0.015 0.030 0.015
--------------------------------------------------------------------------------
Q069
      n  missing distinct      Info      Mean       Gmd       .05       .10
     67        0       34     0.997     21.44     21.59       0.0       1.8
    .25      .50      .75       .90       .95
    7.0     15.0     29.0      47.0      67.0

lowest :  0.0  1.0  1.5  2.0  3.0, highest: 60.0 70.0 81.0 85.0 90.0
--------------------------------------------------------------------------------
Q070
      n  missing distinct      Info      Mean       Gmd       .05       .10
     67        0       29     0.984     54.25      67.4       0.0       0.0
    .25      .50      .75       .90       .95
    3.5     30.0     75.0     150.0     181.0

lowest :   0   2   5   6   8, highest: 160 190 200 284 300
--------------------------------------------------------------------------------
Q071
      n  missing distinct
     67        0        2

Value      Inside the US Outside the US
```

```
Frequency               44              23
Proportion          0.657           0.343
-------------------------------------------------------------------------------
Q072
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     13    54
Proportion 0.194 0.806
-------------------------------------------------------------------------------
Q073
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     26    41
Proportion 0.388 0.612
-------------------------------------------------------------------------------
Q074
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     38    29
Proportion 0.567 0.433
-------------------------------------------------------------------------------
Q075
      n  missing distinct
     67        0        2

Value         No   Yes
Frequency     56    11
Proportion 0.836 0.164
-------------------------------------------------------------------------------
Q076
      n  missing distinct    value
     67        0        1      Yes

Value       Yes
Frequency    67
Proportion    1
-------------------------------------------------------------------------------
Q077
      n  missing distinct
     67        0        3

Value      Not currently working    Working full-time
Frequency                    25                   27
Proportion                0.373                0.403

Value         Working part-time
Frequency                    15
Proportion                0.224
```

```
--------------------------------------------------------------------------------
Q078
      n  missing distinct
      67        0        5

Dual Degree (4, 0.060), Graduate Doctoral program (26, 0.388), Graduate
Masters program (27, 0.403), Non-Degree (6, 0.090), Undergraduate (4,
0.060)
--------------------------------------------------------------------------------
Q079
      n  missing distinct
      67        0        5

Grew up mostly outside US (23, 0.343), Midwest (17, 0.254), Northeast (15,
0.224), South (6, 0.090), West (6, 0.090)
--------------------------------------------------------------------------------
Q080
      n  missing distinct
      67        0       15

Canada (2, 0.030), China (7, 0.104), Egypt (1, 0.015), Greece (1, 0.015),
India (2, 0.030), Kuwait (1, 0.015), Lebanon (1, 0.015), Libya (1, 0.015),
Middle East (1, 0.015), NA (44, 0.657), Qatar (1, 0.015), Saudi Arabia (1,
0.015), Serbia (2, 0.030), Shanghai (1, 0.015), Turkey (1, 0.015)
--------------------------------------------------------------------------------
Q081
      n  missing distinct
      67        0        3

Value         Rural Suburban    Urban
Frequency         5       38       24
Proportion    0.075    0.567    0.358
--------------------------------------------------------------------------------
Q082
      n  missing distinct
      67        0        3

I am a casual player of video games. (26, 0.388), I am a hardcore player -
someone who plays more than just casually. (9, 0.134), I do not play video
games. (32, 0.478)
--------------------------------------------------------------------------------
Q083
      n  missing distinct
      67        0        5

Computer (8, 0.119), Console (18, 0.269), Handheld (Nintendo DS, PSP,
etc.) (2, 0.030), I don't play video games. (32, 0.478), Mobile (7, 0.104)
--------------------------------------------------------------------------------
Q084
      n  missing distinct
      67        0        4

Value         Fall Spring Summer Winter
Frequency       33     15     17      2
```

```
Proportion  0.493  0.224  0.254  0.030
--------------------------------------------------------------------------------
Q085
       n  missing  distinct     Info      Mean       Gmd       .05       .10
      67        0        23     0.991     63.93     23.48      26.5      33.0
     .25       .50       .75       .90       .95
    50.0      70.0      79.0      89.4      95.0

lowest :  15  20  25  30  35, highest:  85  89  90  95 100
--------------------------------------------------------------------------------
Q086
       n  missing  distinct     Info      Mean       Gmd       .05       .10
      67        0        15     0.969     7.299     4.824       0.0       1.0
     .25       .50       .75       .90       .95
     5.5       6.0       9.0      12.0      16.5

Value           0     1     3     4     5     6     7     8     9    10
Frequency       5     3     4     2     3    19     3     1    13     5
Proportion  0.075 0.045 0.060 0.030 0.045 0.284 0.045 0.015 0.194 0.075

Value          12    13    18    20    22
Frequency       4     1     1     2     1
Proportion  0.060 0.015 0.015 0.030 0.015
--------------------------------------------------------------------------------
Q087
       n  missing  distinct     Info      Mean       Gmd       .05       .10
      67        0        18     0.771     116.8     196.6         0         0
     .25       .50       .75       .90       .95
       0         0       120       324       513

Value           0    16    20    30    60   100   120   180   240   250
Frequency      41     1     2     3     1     1     4     2     1     1
Proportion  0.612 0.015 0.030 0.045 0.015 0.015 0.060 0.030 0.015 0.015

Value         300   360   400   450   540   840  1260  1440
Frequency       3     1     1     1     1     1     1     1
Proportion  0.045 0.015 0.015 0.015 0.015 0.015 0.015 0.015
--------------------------------------------------------------------------------
Q088
       n  missing  distinct     Info      Mean       Gmd       .05       .10
      67        0        43     0.999     889.6     837.5      22.4      50.0
     .25       .50       .75       .90       .95
   234.0     707.0    1263.5    2000.0    2100.0

lowest :  15  19  20  28   30, highest: 1900 2000 2100 2500 3000
--------------------------------------------------------------------------------
Q089
       n  missing  distinct     Info      Mean       Gmd       .05       .10
      67        0        31     0.976     27.12     34.46       0.0       0.0
     .25       .50       .75       .90       .95
     0.0      15.0      47.5      56.4      94.0

lowest :   0.0   1.0   1.2   1.5   2.0, highest:  80.0 100.0 101.0 123.8 200.0
--------------------------------------------------------------------------------
```

```
PSS_01
      n  missing distinct
     67        0        5

Value     Almost Never Fairly Often       Never    Sometimes
Frequency           19            8          6           30
Proportion       0.284        0.119      0.090        0.448

Value        Very Often
Frequency            4
Proportion       0.060
--------------------------------------------------------------------------------
PSS_02
      n  missing distinct
     67        0        5

Value     Almost Never Fairly Often       Never    Sometimes
Frequency           25            9          8           20
Proportion       0.373        0.134      0.119        0.299

Value        Very Often
Frequency            5
Proportion       0.075
--------------------------------------------------------------------------------
PSS_03
      n  missing distinct
     67        0        5

Value     Almost Never Fairly Often       Never    Sometimes
Frequency           11           14          1           25
Proportion       0.164        0.209      0.015        0.373

Value        Very Often
Frequency           16
Proportion       0.239
--------------------------------------------------------------------------------
PSS_04
      n  missing distinct
     67        0        4

Value     Almost Never Fairly Often    Sometimes  Very Often
Frequency            7           23         15           22
Proportion       0.104        0.343      0.224        0.328
--------------------------------------------------------------------------------
PSS_05
      n  missing distinct
     67        0        4

Value     Almost Never Fairly Often    Sometimes  Very Often
Frequency            9           26         23            9
Proportion       0.134        0.388      0.343        0.134
--------------------------------------------------------------------------------
PSS_06
      n  missing distinct
```

```
        67          0           5

Value      Almost Never Fairly Often      Never      Sometimes
Frequency            18            8           11            23
Proportion        0.269         0.119        0.164         0.343

Value        Very Often
Frequency             7
Proportion        0.104
--------------------------------------------------------------------------------
PSS_07
     n  missing distinct
     67        0          5

Value      Almost Never Fairly Often      Never      Sometimes
Frequency             7           29            2            19
Proportion        0.104         0.433        0.030         0.284

Value        Very Often
Frequency            10
Proportion        0.149
--------------------------------------------------------------------------------
PSS_08
      n  missing distinct
      67        0          5

Value      Almost Never Fairly Often      Never      Sometimes
Frequency            13           27            1            20
Proportion        0.194         0.403        0.015         0.299

Value        Very Often
Frequency             6
Proportion        0.090
--------------------------------------------------------------------------------
PSS_09
      n  missing distinct
      67        0          5

Value      Almost Never Fairly Often      Never      Sometimes
Frequency            21            8           13            21
Proportion        0.313         0.119        0.194         0.313

Value        Very Often
Frequency             4
Proportion        0.060
--------------------------------------------------------------------------------
PSS_10
      n  missing distinct
      67        0          5

Value      Almost Never Fairly Often      Never      Sometimes
Frequency            23            8           14            17
Proportion        0.343         0.119        0.209         0.254
```

```
Value          Very Often
Frequency            5
Proportion       0.075
--------------------------------------------------------------------------------
HIOS_1
       n  missing distinct     Info      Mean      Gmd
      67        0        5    0.932     3.209     1.29

Value          1      2      3      4      5
Frequency      7     10     20     22      8
Proportion 0.104  0.149  0.299  0.328  0.119
--------------------------------------------------------------------------------
HIOS_2
       n  missing distinct     Info      Mean      Gmd
      67        0        5    0.881      4.06     1.111

Value          1      2      3      4      5
Frequency      1      7      8     22     29
Proportion 0.015  0.104  0.119  0.328  0.433
--------------------------------------------------------------------------------
HIOS_3
       n  missing distinct     Info      Mean      Gmd
      67        0        4    0.845     4.179     0.9172

Value          2      3      4      5
Frequency      6      4     29     28
Proportion 0.090  0.060  0.433  0.418
--------------------------------------------------------------------------------
HIOS_4
       n  missing distinct     Info      Mean      Gmd
      67        0        5    0.907     3.597     1.157

Value          1      2      3      4      5
Frequency      2     10     14     28     13
Proportion 0.030  0.149  0.209  0.418  0.194
--------------------------------------------------------------------------------
HIOS_5
       n  missing distinct     Info      Mean      Gmd
      67        0        5    0.897      3.91     1.069

Value          1      2      3      4      5
Frequency      1      6     12     27     21
Proportion 0.015  0.090  0.179  0.403  0.313
--------------------------------------------------------------------------------
HIOS_6
       n  missing distinct     Info      Mean      Gmd
      67        0        5    0.848     4.104     0.8729

Value          1      2      3      4      5
Frequency      1      2      9     32     23
Proportion 0.015  0.030  0.134  0.478  0.343
--------------------------------------------------------------------------------
HIOS_7
       n  missing distinct     Info      Mean      Gmd
```

```
      67         0         5       0.9      3.985     1.133

Value           1      2      3      4      5
Frequency       1      6     13     20     27
Proportion  0.015  0.090  0.194  0.299  0.403
-------------------------------------------------------------------------------
HIOS_8
        n  missing  distinct      Info      Mean       Gmd
       67        0         4     0.786     4.418    0.7707

Value           2      3      4      5
Frequency       2      6     21     38
Proportion  0.030  0.090  0.313  0.567
-------------------------------------------------------------------------------
FCS_1
        n  missing  distinct
       67        0         2

Value          No    Yes
Frequency      35     32
Proportion  0.522  0.478
-------------------------------------------------------------------------------
FCS_2
        n  missing  distinct
       67        0         2

Value          No    Yes
Frequency      34     33
Proportion  0.507  0.493
-------------------------------------------------------------------------------
FCS_3
        n  missing  distinct
       67        0         2

Value          No    Yes
Frequency      21     46
Proportion  0.313  0.687
-------------------------------------------------------------------------------
FCS_4
        n  missing  distinct
       67        0         2

Value          No    Yes
Frequency      63      4
Proportion   0.94   0.06
-------------------------------------------------------------------------------
FCS_5
        n  missing  distinct
       67        0         3

Value     Not at all   Somewhat        Very
Frequency          3         34          30
Proportion     0.045      0.507       0.448
-------------------------------------------------------------------------------
```

```
FCS_6
      n  missing distinct
     67        0        3

Value       Not at all    Somewhat        Very
Frequency            7          22          38
Proportion       0.104       0.328       0.567
-------------------------------------------------------------------------------
ISI_1
      n  missing distinct
     67        0        5

Value            Mild    Moderate        None      Severe Very Severe
Frequency          21          16          25           3           2
Proportion      0.313       0.239       0.373       0.045       0.030
-------------------------------------------------------------------------------
ISI_2
      n  missing distinct
     67        0        5

Value            Mild    Moderate        None      Severe Very Severe
Frequency          25           9          26           3           4
Proportion      0.373       0.134       0.388       0.045       0.060
-------------------------------------------------------------------------------
ISI_3
      n  missing distinct
     67        0        5

Value            Mild    Moderate        None      Severe Very Severe
Frequency          17           8          32           9           1
Proportion      0.254       0.119       0.478       0.134       0.015
-------------------------------------------------------------------------------
ISI_4
      n  missing distinct
     67        0        5

Value        Dissatisfied        Neutral        Satisfied
Frequency              19             14               24
Proportion          0.284          0.209            0.358

Value   Very dissatisfied   Very satisfied
Frequency               4                6
Proportion          0.060            0.090
-------------------------------------------------------------------------------
ISI_5
      n  missing distinct
     67        0        5

Value         A little        Much Not at all    Somewhat   Very much
Frequency          16          10          26          13           2
Proportion      0.239       0.149       0.388       0.194       0.030
-------------------------------------------------------------------------------
ISI_6
      n  missing distinct
```

```
       67        0        5

Value         A little        Much Not at all   Somewhat  Very much
Frequency          20          11         25         10          1
Proportion      0.299       0.164      0.373      0.149      0.015
--------------------------------------------------------------------
ISI_7
       n  missing distinct
      67        0        5

Value         A little        Much Not at all   Somewhat  Very much
Frequency          13          11         21         13          9
Proportion      0.194       0.164      0.313      0.194      0.134
--------------------------------------------------------------------
SDG_01
       n  missing distinct     Info     Mean      Gmd
      67        0        9    0.946    2.585    1.719

Value      0.67  1.00  2.00  3.00  3.50  4.00  5.00  6.00 12.00
Frequency     1    19    17    16     1     6     4     2     1
Proportion 0.015 0.284 0.254 0.239 0.015 0.090 0.060 0.030 0.015
--------------------------------------------------------------------
SDG_02
       n  missing distinct     Info     Mean      Gmd
      67        0        8    0.882    1.668    1.102

Value      0.00  0.25  1.00  2.00  2.50  3.00  4.00  5.00
Frequency     4     1    30    20     1     7     2     2
Proportion 0.060 0.015 0.448 0.299 0.015 0.104 0.030 0.030
--------------------------------------------------------------------
SDG_03
       n  missing distinct
      67        0        4

Do not eat bread (4, 0.060), High-fiber white or wholemeal, multigrain,
rye or spelt (41, 0.612), Some other kind (7, 0.104), White bread (15,
0.224)
--------------------------------------------------------------------
SDG_04
       n  missing distinct
      67        0        6

1-2 times per week (14, 0.209), 2-3 times per month (10, 0.149), 3-5 times
per week (20, 0.299), 6 or more times per week (19, 0.284), Less than once
per month (1, 0.015), Once per month (3, 0.045)
--------------------------------------------------------------------
SDG_05
       n  missing distinct
      67        0        6

1-2 times per week (18, 0.269), 2-3 times per month (7, 0.104), 3-5 times
per week (22, 0.328), 6 or more times per week (16, 0.239), Less than once
per month (2, 0.030), Once per month (2, 0.030)
--------------------------------------------------------------------
```

```
SDG_06
      n  missing distinct
     67        0        4

Value               3-5 times per week   6 or more times per week
Frequency                          15                          3
Proportion                      0.224                      0.045

Value                   Do not eat meat Less than 2 times per week
Frequency                          12                         37
Proportion                      0.179                      0.552
-------------------------------------------------------------------------------
SDG_07
      n  missing distinct
     67        0        6

1-2 times per week (13, 0.194), 2-3 times per month (25, 0.373), 3-5 times
per week (2, 0.030), 6 or more times per week (1, 0.015), Less than once
per month (18, 0.269), Once per month (8, 0.119)
-------------------------------------------------------------------------------
SDG_08
      n  missing distinct
     67        0        3

Value         150-300 ml (5-10 fluid oz.) Less than 150 ml (5 fluid oz.)
Frequency                            19                            41
Proportion                        0.284                         0.612

Value       More than 300 ml (10 fluid oz.
Frequency                            7
Proportion                        0.104
-------------------------------------------------------------------------------
SDG_09
      n  missing distinct
     67        0        4

Value       I do not consume milk    Low or reduced fat
Frequency                      22                    18
Proportion                  0.328                 0.269

Value               Skim (non-fat)            Whole milk
Frequency                       9                    18
Proportion                  0.134                 0.269
-------------------------------------------------------------------------------
SDG_10
      n  missing distinct
     67        0        6

1-2 times per week (17, 0.254), 2-3 times per month (11, 0.164), 3-5 times
per week (17, 0.254), 6 or more times per week (16, 0.239), Less than once
per month (4, 0.060), Once per month (2, 0.030)
-------------------------------------------------------------------------------
SDG_11
      n  missing distinct     Info     Mean      Gmd      .05      .10
```

```
        67         0        11      0.977      5.679      2.893       2.00        2.60
       .25       .50       .75       .90        .95
      4.00      5.00      7.25     10.00      10.00

Value          2.0   3.0   4.0   5.0   6.0   7.0   7.5   8.0   9.0  10.0
Frequency        7     6    10    15    11     1     1     5     1     8
Proportion  0.104 0.090 0.149 0.224 0.164 0.015 0.015 0.075 0.015 0.119

Value         12.0
Frequency        2
Proportion  0.030
-------------------------------------------------------------------------
SDG_12
        n  missing distinct      Info      Mean       Gmd
       67        0        4      0.55    0.2761    0.4432

Value          0.0   1.0   1.5   3.0
Frequency       51    14     1     1
Proportion  0.761 0.209 0.015 0.015
-------------------------------------------------------------------------
SDG_13
        n  missing distinct      Info      Mean       Gmd
       67        0        9     0.945     1.843     1.604

Value          0.0   0.5   1.0   2.0   3.0   4.0   5.0   6.0   8.0
Frequency       11     1    19    20     7     6     1     1     1
Proportion  0.164 0.015 0.284 0.299 0.104 0.090 0.015 0.015 0.015
-------------------------------------------------------------------------
SDG_14
        n  missing distinct      Info      Mean       Gmd       .05        .10
       67        0       19     0.981     68.92     25.42      26.5       31.8
       .25       .50       .75       .90        .95
      50.0      75.0      90.0      90.0       93.5

Value          0.0  20.0  25.0  30.0  33.0  40.0  50.0  60.0  62.5  65.0
Frequency        1     2     1     3     1     2     8     6     1     1
Proportion  0.015 0.030 0.015 0.045 0.015 0.030 0.119 0.090 0.015 0.015

Value         70.0  75.0  80.0  83.0  85.0  90.0  95.0  99.0 100.0
Frequency        3     8     6     1     3    16     1     1     2
Proportion  0.045 0.119 0.090 0.015 0.045 0.239 0.015 0.015 0.030
-------------------------------------------------------------------------
SDG_15
        n  missing distinct
       67        0        6

1-2 times per week (12, 0.179), 2-3 times per month (27, 0.403), 3-5 times
per week (4, 0.060), 6 or more times per week (1, 0.015), Less than once
per month (10, 0.149), Once per month (13, 0.194)
-------------------------------------------------------------------------
SDG_16
        n  missing distinct
       67        0        6
```

1-2 times per week (7, 0.104), 2-3 times per month (15, 0.224), 3-5 times
per week (10, 0.149), 6 or more times per week (11, 0.164), Less than once
per month (18, 0.269), Once per month (6, 0.090)

SDG_17
        n missing distinct
       67   0   3

Value   Never or Rarely   Sometimes   Usually
Frequency   21   18   28
Proportion   0.313   0.269   0.418

SDG_18
        n missing distinct
       67   0   6

1-2 times per week (15, 0.224), 2-3 times per month (25, 0.373), 3-5 times
per week (9, 0.134), 6 or more times per week (1, 0.015), Less than once
per month (8, 0.119), Once per month (9, 0.134)

SDG_19
        n missing distinct
       67   0   4

Value   1-2 times per week   2-3 times per month
Frequency   4   6
Proportion   0.060   0.090

Value   Less than once per month   Once per month
Frequency   47   10
Proportion   0.701   0.149

SDG_20
        n missing distinct
       67   0   3

Value   Never or Rarely   Sometimes   Usually
Frequency   42   18   7
Proportion   0.627   0.269   0.104

SDG_21
        n missing distinct
       67   0   3

Value   Never or Rarely   Sometimes   Usually
Frequency   10   19   38
Proportion   0.149   0.284   0.567

SDG_22
        n missing distinct
       67   0   6

1-2 times per week (21, 0.313), 2-3 times per month (16, 0.239), 3-5 times
per week (13, 0.194), 6 or more times per week (5, 0.075), Less than once

per month (6, 0.090), Once per month (6, 0.090)

SDG_23
       n missing distinct   Info   Mean   Gmd
      67   0   4   0.527   0.2985   0.4993

Value   0   1   2   4
Frequency   52   12   2   1
Proportion 0.776 0.179 0.030 0.015

SDG_24
       n missing distinct   Info   Mean   Gmd
      67   0   5   0.877   1.06   1.329

Value   0   1   2   3   4
Frequency   32   14   9   9   3
Proportion 0.478 0.209 0.134 0.134 0.045

SDG_25
       n missing distinct   Info   Mean   Gmd   .05   .10
      67   0   10   0.932   1.769   2.033   0.0   0.0
     .25   .50   .75   .90   .95
     0.0   1.0   2.0   3.8   6.0

Value   0.0   0.5   1.0   2.0   3.0   5.0   6.0   7.0   8.0 12.0
Frequency   21   1   12   21   5   2   2   1   1   1
Proportion 0.313 0.015 0.179 0.313 0.075 0.030 0.030 0.015 0.015 0.015

PSS_Summary
       n missing distinct   Info   Mean   Gmd   .05   .10
      67   0   28   0.997   16.37   8.727   6.3   7.6
     .25   .50   .75   .90   .95
    11.0   15.0   21.5   27.8   30.4

lowest : 2 3 6 7 8, highest: 29 31 32 34 36

PSS_Category
       n missing distinct
      67   0   3

Value   High   Low Moderate
Frequency   8   29   30
Proportion   0.119   0.433   0.448

HIOS_Summary
       n missing distinct   Info   Mean   Gmd   .05   .10
      67   0   21   0.994   3.933   0.7533   2.538   3.075
     .25   .50   .75   .90   .95
   3.625   4.000   4.375   4.750   4.750

lowest : 2.000 2.375 2.500 2.625 3.000, highest: 4.500 4.625 4.750 4.875 5.000

HIOS_Category
       n missing distinct

```
        67          0          4

Value            High         Low  Moderate Very High
Frequency          41           4        10        12
Proportion      0.612       0.060     0.149     0.179
--------------------------------------------------------------------------------
FCS_Summary
      n  missing distinct     Info     Mean      Gmd
     67        0        7    0.943    5.418    1.463

Value        1     3     4     5     6     7     8
Frequency    1     5     8    19    20    12     2
Proportion 0.015 0.075 0.119 0.284 0.299 0.179 0.030
--------------------------------------------------------------------------------
FCS_Category
      n  missing distinct
     67        0        3

Value            High         Low Moderate
Frequency          34           6       27
Proportion      0.507       0.090    0.403
--------------------------------------------------------------------------------
ISI_Summary
      n  missing distinct     Info     Mean      Gmd      .05      .10
     67        0       24    0.995    8.836    7.116      0.3      2.0
    .25      .50      .75      .90      .95
    3.0      8.0     13.0     16.8     21.4

lowest :  0  1  2  3  4, highest: 20 22 23 24 25
--------------------------------------------------------------------------------
ISI_Category
      n  missing distinct
     67        0        4

Value               High          Low      Moderate Non-Meaningful
Frequency              4           24             7             32
Proportion         0.060        0.358         0.104          0.478
--------------------------------------------------------------------------------
SDG_Component_A
      n  missing distinct     Info     Mean      Gmd
     67        0        8    0.974    5.164    3.009

Value       0.0   2.0   2.5   4.0   5.0   6.0   7.5  10.0
Frequency     1    12     7    11     6     8    15     7
Proportion 0.015 0.179 0.104 0.164 0.090 0.119 0.224 0.104
--------------------------------------------------------------------------------
SDG_Component_B
      n  missing distinct     Info     Mean      Gmd
     67        0        3    0.801    7.015    3.234

Value        0     5    10
Frequency    5    30    32
Proportion 0.075 0.448 0.478
--------------------------------------------------------------------------------
```

```
SDG_Component_C
       n  missing distinct      Info     Mean       Gmd      .05      .10
      67        0       20     0.993    7.078     2.022    3.825    4.800
     .25      .50      .75      .90      .95
   6.250    7.500    8.500    9.000    9.500


Value      0.50  1.25  2.75  3.75  4.00  4.50  5.00  5.50  6.00  6.25
Frequency     1     1     1     1     2     1     1     3     3     4
Proportion 0.015 0.015 0.015 0.015 0.030 0.015 0.015 0.045 0.045 0.060

Value      6.50  6.75  7.00  7.50  7.75  8.00  8.50  9.00  9.50 10.00
Frequency     6     2     5    10     2     6     6     7     2     3
Proportion 0.090 0.030 0.075 0.149 0.030 0.090 0.090 0.104 0.030 0.045
------------------------------------------------------------------------
SDG_Component_D
       n  missing distinct      Info     Mean       Gmd      .05      .10
      67        0       13     0.969    5.858     1.991      2.5      3.3
     .25      .50      .75      .90      .95
     5.0      6.0      7.0      8.0      8.0


Value       2.0   2.5   3.0   3.5   4.5   5.0   5.5   6.0   6.5   7.0
Frequency     1     4     2     2     7    14     1     6     1    17
Proportion 0.015 0.060 0.030 0.030 0.104 0.209 0.015 0.090 0.015 0.254

Value       8.0   9.0  10.0
Frequency    10     1     1
Proportion 0.149 0.015 0.015
------------------------------------------------------------------------
SDG_Component_E
       n  missing distinct      Info     Mean       Gmd      .05      .10
      67        0       19     0.994    4.616     2.431    1.075    2.000
     .25      .50      .75      .90      .95
   3.125    4.500    6.250    6.750    7.925


Value      0.00  1.00  1.25  2.00  3.00  3.25  4.00  4.25  4.50  5.00
Frequency     2     2     2     6     5     2     7     5     3     8
Proportion 0.030 0.030 0.030 0.090 0.075 0.030 0.104 0.075 0.045 0.119

Value      5.25  5.50  6.25  6.50  6.75  7.75  8.00  8.75 10.00
Frequency     3     3     5     5     3     2     1     1     2
Proportion 0.045 0.045 0.075 0.075 0.045 0.030 0.015 0.015 0.030
------------------------------------------------------------------------
SDG_Component_F
       n  missing distinct      Info     Mean       Gmd
      67        0        4     0.786    7.948     1.701

Value       2.5   5.0   7.5  10.0
Frequency     1     7    38    21
Proportion 0.015 0.104 0.567 0.313
------------------------------------------------------------------------
SDG_Component_G
       n  missing distinct      Info     Mean       Gmd      .05      .10
      67        0       13     0.988     7.09     1.712     4.65     5.00
     .25      .50      .75      .90      .95
```

```
          6.00       7.00       8.00       9.00       9.50

Value          3.5    4.5    5.0    5.5    6.0    6.5    7.0    7.5    8.0    8.5
Frequency        1      3      4      3     11      6     10      5      8      6
Proportion   0.015  0.045  0.060  0.045  0.164  0.090  0.149  0.075  0.119  0.090

Value          9.0    9.5   10.0
Frequency        4      4      2
Proportion   0.060  0.060  0.030
-------------------------------------------------------------------------------
SDG_Component_H
       n  missing distinct     Info      Mean      Gmd
      67        0        5    0.838     5.261    2.856

Value          0.0    2.5    5.0    7.5   10.0
Frequency        7      6     36      9      9
Proportion   0.104  0.090  0.537  0.134  0.134
-------------------------------------------------------------------------------
SDG_Component_I
       n  missing distinct     Info      Mean      Gmd
      67        0        6    0.937     7.668    1.742

Value         1.25   5.00   6.25   7.50   8.75  10.00
Frequency        1      5     12     23     16     10
Proportion   0.015  0.075  0.179  0.343  0.239  0.149
-------------------------------------------------------------------------------
SDG_Component_J
       n  missing distinct     Info      Mean      Gmd
      67        0        4    0.767     8.507    2.096

Value          2.5    5.0    7.5   10.0
Frequency        4      5     18     40
Proportion   0.060  0.075  0.269  0.597
-------------------------------------------------------------------------------
SDG_Summary
       n  missing distinct     Info      Mean      Gmd      .05      .10
      67        0       52        1    66.21     11.2    49.00    53.70
     .25      .50      .75      .90      .95
   60.75    65.25    73.12    78.85    81.35

lowest : 45.00 46.25 49.00 50.50 52.50, highest: 81.00 81.50 83.25 85.75 86.50
-------------------------------------------------------------------------------
```

tabyls for the "Check All That Apply" items

```
studyA_clean %>% tabyl(Q029)
```

```
                                                                      Q029
                                                      Cafe (i.e. Starbucks)
                                   Cafe (i.e. Starbucks), Fast food restaurant
                 Cafe (i.e. Starbucks), Fast food restaurant, Other restaurant
                                      Cafe (i.e. Starbucks), Grocery Store
```

```
                        Cafe (i.e. Starbucks), Grocery Store, Fast food restaurant
   Cafe (i.e. Starbucks), Grocery Store, Fast food restaurant, Other restaurant
                         Cafe (i.e. Starbucks), Grocery Store, Other restaurant
        Cafe (i.e. Starbucks), Grocery Store, Other restaurant, Purchased online
                       Cafe (i.e. Starbucks), Grocery Store, Purchased online
                              Cafe (i.e. Starbucks), Other restaurant
                              Cafe (i.e. Starbucks), Purchased online
                                      Did not purchase coffee or tea
                                                       Grocery Store
                                                    Other restaurant
                                                    Purchased online
```
```
 n   percent
18 0.26865672
 2 0.02985075
 1 0.01492537
12 0.17910448
 2 0.02985075
 1 0.01492537
 3 0.04477612
 1 0.01492537
 3 0.04477612
 3 0.04477612
 2 0.02985075
11 0.16417910
 5 0.07462687
 1 0.01492537
 2 0.02985075
```

`studyA_clean %>% tabyl(Q030)`

```
                                              Q030 n    percent
                           Aldi, Constantinos Market 1 0.01492537
                             Aldi, Costco, Marcs, Walmart 1 0.01492537
                  Aldi, Costco, Trader Joes, Whole Foods 1 0.01492537
                                   Aldi, Costco, Walmart 2 0.02985075
 Aldi, Daves Market, Marcs, Target, Trader Joes, Whole Foods 1 0.01492537
                          Aldi, Daves Market, Target 1 0.01492537
       Aldi, Giant Eagle, Heinens, Target, Trader Joes 1 0.01492537
                            Aldi, Giant Eagle, Marcs 1 0.01492537
                  Aldi, Giant Eagle, Marcs, Sams Club 1 0.01492537
                           Aldi, Giant Eagle, Target 1 0.01492537
                                        Aldi, Walmart 1 0.01492537
                            Aldi, Walmart, Whole Foods 1 0.01492537
         Constantinos Market, Costco, Giant Eagle, Marcs 1 0.01492537
 Constantinos Market, Daves Market, Marcs, Target, Walmart 1 0.01492537
           Constantinos Market, Daves Market, Walmart 1 0.01492537
                                               Costco 1 0.01492537
                                  Costco, Daves Market 2 0.02985075
                     Costco, Daves Market, Trader Joes 1 0.01492537
             Costco, Giant Eagle, Walmart, Whole Foods 1 0.01492537
        Costco, Heinens, Target, Trader Joes, Whole Foods 1 0.01492537
                         Costco, Target, Trader Joes 1 0.01492537
                   Costco, Trader Joes, Whole Foods 2 0.02985075
                                       Costco, Walmart 2 0.02985075
                                  Costco, Whole Foods 1 0.01492537
```

```
                                        Daves Market 1 0.01492537
            Daves Market, Heinens, Target, Trader Joes 1 0.01492537
          Daves Market, Target, Trader Joes, Whole Foods 1 0.01492537
          Daves Market, Target, Walmart, Whole Foods 1 0.01492537
                          Daves Market, Trader Joes 1 0.01492537
                 Daves Market, Trader Joes, Walmart 1 0.01492537
             Daves Market, Trader Joes, Whole Foods 1 0.01492537
                             Daves Market, Walmart 1 0.01492537
                         Daves Market, Whole Foods 3 0.04477612
                                         Giant Eagle 1 0.01492537
                                Giant Eagle, Walmart 1 0.01492537
                            Giant Eagle, Whole Foods 1 0.01492537
                                             Heinens 1 0.01492537
                   Heinens, Trader Joes, Walmart 1 0.01492537
                Heinens, Trader Joes, Whole Foods 1 0.01492537
                                    Heinens, Walmart 2 0.02985075
                                Heinens, Whole Foods 1 0.01492537
                    I do not buy groceries regularly 3 0.04477612
  I do not buy groceries regularly, Marcs, Target, Trader Joes 1 0.01492537
                                               Marcs 3 0.04477612
                               Sams Club, Walmart 1 0.01492537
                  Sams Club, Walmart, Whole Foods 1 0.01492537
                             Target, Whole Foods 3 0.04477612
                                        Trader Joes 2 0.02985075
                                             Walmart 1 0.01492537
                             Walmart, Whole Foods 1 0.01492537
                                         Whole Foods 3 0.04477612
```

```r
studyA_clean %>% tabyl(Q055)
```

```
                                Q055  n    percent
                                 Cat  8 0.11940299
                            Cat, Dog  2 0.02985075
 Cat, Fish, Reptile, Other Kind of Pet  1 0.01492537
                                 Dog 10 0.14925373
                         Dog, Rabbit  1 0.01492537
                                Fish  1 0.01492537
             I do not have any pets 43 0.64179104
           Rabbit, Other Kind of Pet  1 0.01492537
```

Good luck!