Final Project Data Wrangling

Darwin Khay

9/29/2020

Importing the dataset

```
asmr_data <- read.csv("C:\\Users\\khayd\\Documents\\FALL 2020 Files\\STAT 1601\\Datasets\\ASMR_data.csv
```

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

Subsetting the data to include relevant variables

```
#

asmr_data1 <- asmr_data%>%
  select(BDI.group, BDI_TOTAL, BAI_TOTAL,Ill_Elab, V_howmanyvideos, V_Time_Evening, V_Time_BeforeSleep,
```

Renaming some column names

```
asmr_data2<-asmr_data1%>%
  rename(BDI_group = BDI.group,Illness_Type = Ill_Elab, Num_ASMRVideos = V_howmanyvideos, Watch_Evening'

glimpse(asmr_data2)
```

```
## Rows: 475
## Columns: 31
## $ BDI_group                          <int> 1, 1, 1, 1, 1, 1, 2, 2, 1, 1, 1,...
## $ BDI_TOTAL                          <int> 12, 2, 4, 6, 12, 5, 14, 18, 3, 0...
## $ BAI_TOTAL                          <int> 10, 1, 8, 14, 22, 3, 10, 12, 1, ...
## $ Illness_Type                       <chr> "migraines", "0", "0", "0", "0",...
## $ Num_ASMRVideos                     <int> 5, 3, 4, 2, 2, 3, 2, 3, 3, 3, 6,...
## $ Watch_EveningTime                  <int> 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 1,...
## $ Watch_BeforeSleep                  <int> 0, 1, 1, 1, 1, 1, 0, 1, 1, 1, 0,...
## $ Watch_SpareTime                    <int> 0, 0, 1, 1, 0, 0, 1, 1, 0, 0, 1,...
## $ Experienced_Tingles                <int> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...
## $ FlowFocusWatching                  <int> 5, 4, 5, 2, 5, 5, 5, 3, 3, 4, 3,...
## $ FlowFeeling                        <int> 5, 4, 5, 2, 4, 3, 3, 5, 3, 4, 3,...
## $ FlowNoEffort                       <int> 5, 3, 4, 1, 5, 5, 4, 5, 5, 4, 5,...
## $ FlowInControl                      <int> 5, 3, 4, 3, 5, 5, 3, 5, 5, 3, 5,...
## $ FlowNotWorried                     <int> 5, 3, 2, 1, 1, 4, 5, 5, 5, 4, 5,...
## $ Mood_Before_watch                  <int> 72, 50, 70, 30, 50, 80, 39, 29, ...
## $ Mood_During_Watch                  <int> 88, 90, 85, 50, 80, 100, 59, 91,...
## $ Mood_After_watch                   <int> 83, 80, 85, 47, 100, 100, 70, 85...
## $ MoodAfter_30mins_watch             <int> 83, 60, 80, 45, 90, 100, 61, 68,...
## $ MoodAfter_1hour_watch              <int> 83, 50, 60, 19, 70, 80, 50, 52, ...
## $ MoodAfter_3hours_watch             <int> 82, 50, 50, 14, 50, 82, 39, 41, ...
## $ MoodAfter_1Day_watch               <int> 83, 50, 50, 19, 50, 82, 49, 28, ...
## $ Mood_Daily                         <int> 74, 50, 51, 20, 50, 84, 50, 29, ...
## $ EffectSleep                        <int> 0, 2, 1, 1, 1, 0, 1, 1, 1, 0, 0,...
## $ RelieveNegativeMood                <int> 5, 1, 5, 4, 4, 4, 5, 5, 3, 4, 3,...
## $ EnjoyASMRvideos                    <int> 5, 5, 5, 4, 5, 5, 5, 5, 4, 4, 5,...
## $ EnjoyContentofASMRvideos_notingles <int> 5, 3, 4, 3, 5, 4, 4, 3, 4, 4, 5,...
## $ WatchToRelax                       <int> 5, 5, 5, 4, 5, 5, 5, 4, 4, 4, 5,...
## $ DealWithAnxiety                    <int> 5, 1, 4, 4, 5, 3, 5, 1, 2, 2, 1,...
## $ DealWithStress                     <int> 5, 1, 4, 4, 5, 3, 5, 4, 2, 4, 1,...
## $ HelpMeSleep                        <int> 2, 1, 5, 4, 3, 3, 4, 5, 5, 4, 4,...
## $ WatchToDealWithDepression          <int> 1, 1, 1, 1, 5, 1, 3, 1, 1, 2, 1,...
```

Changing some columns into character vectors and changing values

```
asmr_data3 <- asmr_data2%>%
  mutate(BDI_group = as.character(BDI_group))%>%
  mutate(BDI_group = ifelse(BDI_group == "1", "Little to no depression", ifelse(BDI_group == "2", "Mild
  mutate(Illness_Type = ifelse(Illness_Type == "0", NA, Illness_Type))%>%
  mutate(Watch_EveningTime = as.character(Watch_EveningTime), Watch_BeforeSleep = as.character(Watch_Be
  mutate(Watch_EveningTime = ifelse(Watch_EveningTime == "0", "No", "Yes"), Watch_BeforeSleep = ifelse(
  mutate(Experienced_Tingles = as.character(Experienced_Tingles))%>%
  mutate(Experienced_Tingles = ifelse(Experienced_Tingles == "1", "Yes", "No"))%>%
  mutate(EffectSleep = as.character(EffectSleep))%>%
  mutate(EffectSleep = ifelse(EffectSleep == "1" | EffectSleep == "3", "Yes", "No"))

glimpse(asmr_data3)
```

```
## Rows: 475
## Columns: 31
```

```
## $ BDI_group                           <chr> "Little to no depression", "Litt...
## $ BDI_TOTAL                           <int> 12, 2, 4, 6, 12, 5, 14, 18, 3, 0...
## $ BAI_TOTAL                           <int> 10, 1, 8, 14, 22, 3, 10, 12, 1, ...
## $ Illness_Type                        <chr> "migraines", NA, NA, NA, NA, NA,...
## $ Num_ASMRVideos                      <int> 5, 3, 4, 2, 2, 3, 2, 3, 3, 3, 6,...
## $ Watch_EveningTime                   <chr> "No", "No", "No", "Yes", "No", "...
## $ Watch_BeforeSleep                   <chr> "No", "Yes", "Yes", "Yes", "Yes"...
## $ Watch_SpareTime                     <chr> "No", "No", "Yes", "Yes", "No", ...
## $ Experienced_Tingles                 <chr> "Yes", "Yes", "Yes", "Yes", "Yes...
## $ FlowFocusWatching                   <int> 5, 4, 5, 2, 5, 5, 5, 3, 3, 4, 3,...
## $ FlowFeeling                         <int> 5, 4, 5, 2, 4, 3, 3, 5, 3, 4, 3,...
## $ FlowNoEffort                        <int> 5, 3, 4, 1, 5, 5, 4, 5, 5, 4, 5,...
## $ FlowInControl                       <int> 5, 3, 4, 3, 5, 5, 3, 5, 5, 3, 5,...
## $ FlowNotWorried                      <int> 5, 3, 2, 1, 1, 4, 5, 5, 5, 4, 5,...
## $ Mood_Before_watch                   <int> 72, 50, 70, 30, 50, 80, 39, 29, ...
## $ Mood_During_Watch                   <int> 88, 90, 85, 50, 80, 100, 59, 91,...
## $ Mood_After_watch                    <int> 83, 80, 85, 47, 100, 100, 70, 85...
## $ MoodAfter_30mins_watch              <int> 83, 60, 80, 45, 90, 100, 61, 68,...
## $ MoodAfter_1hour_watch               <int> 83, 50, 60, 19, 70, 80, 50, 52, ...
## $ MoodAfter_3hours_watch              <int> 82, 50, 50, 14, 50, 82, 39, 41, ...
## $ MoodAfter_1Day_watch                <int> 83, 50, 50, 19, 50, 82, 49, 28, ...
## $ Mood_Daily                          <int> 74, 50, 51, 20, 50, 84, 50, 29, ...
## $ EffectSleep                         <chr> "No", "No", "Yes", "Yes", "Yes",...
## $ RelieveNegativeMood                 <int> 5, 1, 5, 4, 4, 4, 5, 5, 3, 4, 3,...
## $ EnjoyASMRvideos                     <int> 5, 5, 5, 4, 5, 5, 5, 5, 4, 4, 5,...
## $ EnjoyContentofASMRvideos_notingles <int> 5, 3, 4, 3, 5, 4, 4, 3, 4, 4, 5,...
## $ WatchToRelax                        <int> 5, 5, 5, 4, 5, 5, 5, 4, 4, 4, 5,...
## $ DealWithAnxiety                     <int> 5, 1, 4, 4, 5, 3, 5, 1, 2, 2, 1,...
## $ DealWithStress                      <int> 5, 1, 4, 4, 5, 3, 5, 4, 2, 4, 1,...
## $ HelpMeSleep                         <int> 2, 1, 5, 4, 3, 3, 4, 5, 5, 4, 4,...
## $ WatchToDealWithDepression           <int> 1, 1, 1, 1, 5, 1, 3, 1, 1, 2, 1,...
```

Summary measures of key numeric variables

```
BDI_mean_table<-asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(BDI_mean_byBDIgroup = mean(BDI_TOTAL, na.rm=T), BAI_mean_byBDIgroup = mean(BAI_TOTAL, na.rm
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
BDI_mean_table
```

```
## # A tibble: 3 x 3
##   BDI_group                     BDI_mean_byBDIgroup BAI_mean_byBDIgroup
##   <chr>                                       <dbl>               <dbl>
## 1 Little to no depression                      5.69                8.17
## 2 Mild depression                             16.4                17.6
## 3 Moderate or severe depression               28.3                24.7
```

```
BDI_standarddev_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(BDI_sd_byBDIgroup = sd(BDI_TOTAL, na.rm=T), BAI_sd_byBDIgroup = sd(BAI_TOTAL, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
BDI_standarddev_table
```

```
## # A tibble: 3 x 3
##   BDI_group                     BDI_sd_byBDIgroup BAI_sd_byBDIgroup
##   <chr>                                     <dbl>             <dbl>
## 1 Little to no depression                    3.74              7.30
## 2 Mild depression                            1.89              9.55
## 3 Moderate or severe depression              7.53             13.2
```

```
NumVids_mean_table<-asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(NumVids_mean_byBDIgroup = mean(Num_ASMRVideos, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
NumVids_mean_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     NumVids_mean_byBDIgroup
##   <chr>                                           <dbl>
## 1 Little to no depression                          3.07
## 2 Mild depression                                  3.20
## 3 Moderate or severe depression                    3.62
```

```
NumVids_sd_table<-asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(NumVids_sd_byBDIgroup = sd(Num_ASMRVideos, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
NumVids_sd_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     NumVids_sd_byBDIgroup
##   <chr>                                         <dbl>
## 1 Little to no depression                        1.45
## 2 Mild depression                                1.47
## 3 Moderate or severe depression                  1.45
```

```
MoodBeforeWatch_mean_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodBeforeWatch_mean_byBDIgroup = mean(Mood_Before_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodBeforeWatch_mean_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     MoodBeforeWatch_mean_byBDIgroup
##   <chr>                                                   <dbl>
## 1 Little to no depression                                  57.4
## 2 Mild depression                                          44.5
## 3 Moderate or severe depression                            37.6
```

```
MoodBeforeWatch_sd_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodBeforeWatch_sd_byBDIgroup = sd(Mood_Before_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodBeforeWatch_sd_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     MoodBeforeWatch_sd_byBDIgroup
##   <chr>                                                 <dbl>
## 1 Little to no depression                                13.8
## 2 Mild depression                                        14.9
## 3 Moderate or severe depression                          16.0
```

```
MoodAfterWatch_mean_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodAfterWatch_mean_byBDIgroup = mean(Mood_After_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodAfterWatch_mean_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     MoodAfterWatch_mean_byBDIgroup
##   <chr>                                                 <dbl>
## 1 Little to no depression                                77.1
## 2 Mild depression                                        72.0
## 3 Moderate or severe depression                          67.8
```

```
MoodAfterWatch_sd_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodAfterWatch_sd_byBDIgroup = sd(Mood_Before_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodAfterWatch_sd_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     MoodAfterWatch_sd_byBDIgroup
##   <chr>                                                <dbl>
## 1 Little to no depression                               13.8
## 2 Mild depression                                       14.9
## 3 Moderate or severe depression                         16.0
```

```
MoodAfter30minsWatch_mean_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodAfter30minWatch_mean_byBDIgroup = mean(MoodAfter_30mins_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodAfter30minsWatch_mean_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     MoodAfter30minWatch_mean_byBDIgroup
##   <chr>                                                       <dbl>
## 1 Little to no depression                                      69.7
## 2 Mild depression                                              62.7
## 3 Moderate or severe depression                                56.3
```

```
MoodAfter30minsWatch_sd_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodAfter30minWatch_sd_byBDIgroup = sd(MoodAfter_30mins_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodAfter30minsWatch_sd_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     MoodAfter30minWatch_sd_byBDIgroup
##   <chr>                                                    <dbl>
## 1 Little to no depression                                   13.5
## 2 Mild depression                                           15.0
## 3 Moderate or severe depression                             20.1
```

```
MoodAfter1hourWatch_mean_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodAfter1hourWatch_mean_byBDIgroup = mean(MoodAfter_1hour_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodAfter1hourWatch_mean_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     MoodAfter1hourWatch_mean_byBDIgroup
##   <chr>                                                       <dbl>
## 1 Little to no depression                                      65.3
## 2 Mild depression                                              57.8
## 3 Moderate or severe depression                                49.7
```

```
MoodAfter1hourWatch_sd_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodAfter1hourWatch_sd_byBDIgroup = sd(MoodAfter_1hour_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodAfter1hourWatch_sd_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     MoodAfter1hourWatch_sd_byBDIgroup
##   <chr>                                                     <dbl>
## 1 Little to no depression                                    13.6
## 2 Mild depression                                            15.4
## 3 Moderate or severe depression                              19.6
```

```
MoodAfter3hoursWatch_mean_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodAfter3hoursWatch_mean_byBDIgroup = mean(MoodAfter_3hours_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodAfter3hoursWatch_mean_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     MoodAfter3hoursWatch_mean_byBDIgroup
##   <chr>                                                        <dbl>
## 1 Little to no depression                                       62.2
## 2 Mild depression                                               51.5
## 3 Moderate or severe depression                                 43.8
```

```
MoodAfter3hoursWatch_sd_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodAfter3hoursWatch_sd_byBDIgroup = sd(MoodAfter_3hours_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodAfter3hoursWatch_sd_table
```

```
## # A tibble: 3 x 2
##   BDI_group                     MoodAfter3hoursWatch_sd_byBDIgroup
##   <chr>                                                     <dbl>
## 1 Little to no depression                                    13.4
## 2 Mild depression                                            15.2
## 3 Moderate or severe depression                              18.8
```

```
MoodAfter1DayWatch_mean_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodAfter1DayWatch_mean_byBDIgroup = mean(MoodAfter_1Day_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodAfter1DayWatch_mean_table
```

```
## # A tibble: 3 x 2
##   BDI_group                    MoodAfter1DayWatch_mean_byBDIgroup
##   <chr>                                                     <dbl>
## 1 Little to no depression                                    59.2
## 2 Mild depression                                            45.9
## 3 Moderate or severe depression                              39.4
```

```
MoodAfter1DayWatch_sd_table <- asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodAfter1DayWatch_sd_byBDIgroup = sd(MoodAfter_1Day_watch, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodAfter1DayWatch_sd_table
```

```
## # A tibble: 3 x 2
##   BDI_group                    MoodAfter1DayWatch_sd_byBDIgroup
##   <chr>                                                   <dbl>
## 1 Little to no depression                                  13.2
## 2 Mild depression                                          14.6
## 3 Moderate or severe depression                            18.8
```

```
MoodDaily_mean_table<-asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodDaily_mean_byBDIgroup = mean(Mood_Daily, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodDaily_mean_table
```

```
## # A tibble: 3 x 2
##   BDI_group                    MoodDaily_mean_byBDIgroup
##   <chr>                                            <dbl>
## 1 Little to no depression                           58.8
## 2 Mild depression                                   45.0
## 3 Moderate or severe depression                     31.9
```

```
MoodDaily_sd_table<-asmr_data3%>%
  group_by(BDI_group)%>%
  summarize(MoodDaily_sd_byBDIgroup = sd(Mood_Daily, na.rm=T))
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
MoodDaily_sd_table
```

```
## # A tibble: 3 x 2
##   BDI_group                    MoodDaily_sd_byBDIgroup
##   <chr>                                          <dbl>
## 1 Little to no depression                         12.9
## 2 Mild depression                                 15.2
## 3 Moderate or severe depression                   16.1
```

Summary measures of key categorical variables

```
illness_type_table<-asmr_data3%>%
  select(Illness_Type)%>%
  table()

illness_type_table2<-illness_type_table%>%
  data.frame(illness_type_table)%>%
  select(1,Freq)%>%
  rename(Illness_Type = 1)
illness_type_table3<-illness_type_table2[order(-illness_type_table2$Freq),]
head(illness_type_table3)
```

```
##       Illness_Type Freq
## 6           Asthma    2
## 20 Crohn's Disease    2
## 52        migraine    2
## 53        Migraine    2
## 1      acid reflux    1
## 2         Anorexia    1
```

```
twoway_bdigroup_eveningtime <- asmr_data3%>%
  select(BDI_group, Watch_EveningTime)%>%
  table()
twoway_bdigroup_eveningtime
```

```
##                                Watch_EveningTime
## BDI_group                        No Yes
##   Little to no depression       216 131
##   Mild depression                41  15
##   Moderate or severe depression  34  38
```

```
twoway_bdigroup_beforesleep <- asmr_data3%>%
  select(BDI_group, Watch_BeforeSleep)%>%
  table()
twoway_bdigroup_beforesleep
```

```
##                                Watch_BeforeSleep
## BDI_group                        No Yes
##   Little to no depression        55 292
##   Mild depression                 7  49
##   Moderate or severe depression  20  52
```

```
twoway_bdigroup_sparetime <- asmr_data3%>%
  select(BDI_group, Watch_SpareTime)%>%
  table()
twoway_bdigroup_sparetime
```

```
##                                Watch_SpareTime
## BDI_group                        No Yes
```

```
##   Little to no depression       254  93
##   Mild depression                36  20
##   Moderate or severe depression  42  30
```

```
experiencedtingles_frequency <- asmr_data3%>%
  select(Experienced_Tingles)%>%
  table()
experiencedtingles_frequency
```

```
## .
##  No Yes
##  50 425
```

```
twoway_bdigroup_flowfocuswatching<-asmr_data3%>%
  select(BDI_group, FlowFocusWatching)%>%
  table()
twoway_bdigroup_flowfocuswatching
```

```
##                               FlowFocusWatching
## BDI_group                        0   1   2   3   4   5
##   Little to no depression       35  18  36  30 122 106
##   Mild depression                7   2   1   5  17  24
##   Moderate or severe depression  8   4  10   5  27  18
```

```
twoway_bdigroup_flowfeeling<-asmr_data3%>%
  select(BDI_group, FlowFeeling)%>%
  table()
twoway_bdigroup_flowfeeling
```

```
##                               FlowFeeling
## BDI_group                        0   1   2   3   4   5
##   Little to no depression       35  16  29  48 133  86
##   Mild depression                7   2   5   9  17  16
##   Moderate or severe depression  8   3   6  10  23  22
```

```
twoway_bdigroup_flownoeffort<-asmr_data3%>%
  select(BDI_group, FlowNoEffort)%>%
  table()
twoway_bdigroup_flownoeffort
```

```
##                               FlowNoEffort
## BDI_group                        0   1   2   3   4   5
##   Little to no depression       35  13  56  57 105  81
##   Mild depression                7   0  10   7  18  14
##   Moderate or severe depression  8   6   5  10  25  18
```

```
twoway_bdigroup_flowincontrol<-asmr_data3%>%
  select(BDI_group, FlowInControl)%>%
  table()
twoway_bdigroup_flowincontrol
```

```
##                                FlowInControl
## BDI_group                        0  1  2  3  4  5
##   Little to no depression       35 12 59 95 62 84
##   Mild depression                7  2 12 13  7 15
##   Moderate or severe depression  8  8  9 17 17 13
```

```
twoway_bdigroup_flownotworried<-asmr_data3%>%
  select(BDI_group, FlowNotWorried)%>%
  table()
twoway_bdigroup_flownotworried
```

```
##                                FlowNotWorried
## BDI_group                        0   1   2   3   4   5
##   Little to no depression       35  18  34  76  75 109
##   Mild depression                7   4   5  10  10  20
##   Moderate or severe depression  8   9   8  14   9  24
```

```
twoway_bdigroup_effectsleep <- asmr_data3%>%
  select(BDI_group, EffectSleep)%>%
  table()
twoway_bdigroup_effectsleep
```

```
##                                EffectSleep
## BDI_group                        No Yes
##   Little to no depression       165 182
##   Mild depression                13  43
##   Moderate or severe depression  15  57
```

```
twoway_bdigroup_relievenegativemood <- asmr_data3%>%
  select(BDI_group, RelieveNegativeMood)%>%
  table()
twoway_bdigroup_relievenegativemood
```

```
##                                RelieveNegativeMood
## BDI_group                        1   2   3   4   5
##   Little to no depression       28  57  72 138  52
##   Mild depression                4   5   5  29  13
##   Moderate or severe depression  1   2   8  43  18
```

```
twoway_bdigroup_enjoyasmrvids <- asmr_data3%>%
  select(BDI_group, EnjoyASMRvideos)%>%
  table()
twoway_bdigroup_enjoyasmrvids
```

```
##                                EnjoyASMRvideos
## BDI_group                        2   3   4   5
##   Little to no depression        0   2 123 222
##   Mild depression                0   3  20  33
##   Moderate or severe depression  1   0  23  48
```

```
twoway_bdigroup_enjoycontentasmrvids_notingles <- asmr_data3%>%
  select(BDI_group, EnjoyContentofASMRvideos_notingles)%>%
  table()
twoway_bdigroup_enjoycontentasmrvids_notingles
```

```
##                                EnjoyContentofASMRvideos_notingles
## BDI_group                         1   2   3   4   5
##   Little to no depression        11  36  58 156  86
##   Mild depression                 1   3  12  21  19
##   Moderate or severe depression   3  10   6  31  22
```

```
twoway_bdigroup_watchtorelax <- asmr_data3%>%
  select(BDI_group, WatchToRelax)%>%
  table()
twoway_bdigroup_watchtorelax
```

```
##                                WatchToRelax
## BDI_group                         1   2   3   4   5
##   Little to no depression         0   0   4 131 212
##   Mild depression                 0   2   2  15  37
##   Moderate or severe depression   1   0   0  26  45
```

```
twoway_bdigroup_dealwithanxiety <- asmr_data3%>%
  select(BDI_group, DealWithAnxiety)%>%
  table()
twoway_bdigroup_dealwithanxiety
```

```
##                                DealWithAnxiety
## BDI_group                         1   2   3   4   5
##   Little to no depression        53  79  56 102  57
##   Mild depression                 5   1  15  15  20
##   Moderate or severe depression   4   5  11  26  26
```

```
twoway_bdigroup_dealwithstress <- asmr_data3%>%
  select(BDI_group, DealWithStress)%>%
  table()
twoway_bdigroup_dealwithstress
```

```
##                                DealWithStress
## BDI_group                         1   2   3   4   5
##   Little to no depression        32  43  48 149  75
##   Mild depression                 1   2   7  27  19
##   Moderate or severe depression   1   2   5  35  29
```

```
twoway_bdigroup_helpmesleep <- asmr_data3%>%
  select(BDI_group, HelpMeSleep)%>%
  table()
twoway_bdigroup_helpmesleep
```

```
##                                HelpMeSleep
## BDI_group                        1   2   3   4   5
##   Little to no depression       13  23  28 132 151
##   Mild depression                2   2   4  18  30
##   Moderate or severe depression  1   7   6  23  35
```

```
twoway_bdigroup_dealwithdepression <- asmr_data3%>%
  select(BDI_group, WatchToDealWithDepression)%>%
  table()
twoway_bdigroup_dealwithdepression
```

```
##                                WatchToDealWithDepression
## BDI_group                        1   2   3   4   5
##   Little to no depression      164  69  59  46   9
##   Mild depression                8   6  16  21   5
##   Moderate or severe depression  6   4  12  30  20
```