Final Report

due November 16, 2021 by 11:59 PM

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November 2021

Load Packages

```
library(tidyverse)
library(readxl)
library(dbplyr)
```

Load Data

```
load(file = "~/sta198/Jackie-Fan-Club/data/ICPSR_34363/DS0001/34363-0001-Data.rda")
#rename file
data <- da34363.0001
```

Data Citation: Battle, Juan, Pastrana, Antonio Jay, and Daniels, Jessie. Social Justice Sexuality Project: 2010 National Survey, including Puerto Rico. Ann Arbor, MI: Inter-university Consortium for Political and Social Research [distributor], 2013-08-09. https://doi.org/10.3886/ICPSR34363.v1

```
data_filtered <- data %>%
  select(Q15B,
         Q15C,
         Q17A,
         Q17B,
         Q18A1:Q18A5,
         Q18C,
         Q18G,
         Q19A1:Q19A7,
         Q22A,
         Q22B,
         Q25)

# remove descriptions and other attributes
data_filtered2 <- lapply(data, function(x) {attributes(x) <- NULL; x}) %>%
  as.data.frame() %>%
  select(Q15B,
         Q15C,
         Q17A,
         Q17B,
         Q18A1:Q18A5,
         Q18C,
         Q18G,
```

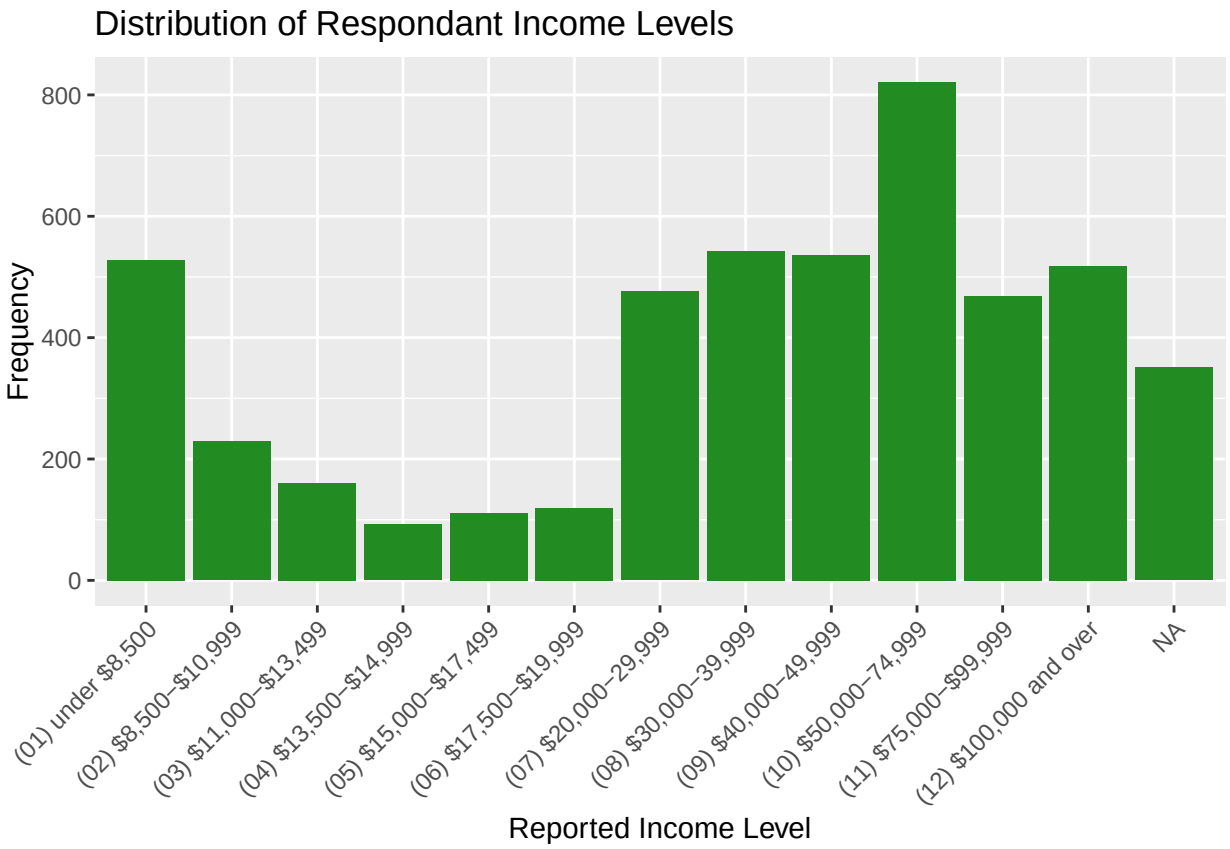
```
          Q19A1:Q19A7,
          Q22A,
          Q22B,
          Q25)
```

```
data <- data_filtered %>%
    select(Q17A,
          Q17B,
          Q18A1:Q18A5,
          Q18C,
          Q18G,
          Q19A1:Q19A7,
          Q22A,
          Q22B,
          Q25) %>%
  rename(healthInsureAcc = Q17A) %>%
  rename(healthProvideAcc = Q17B) %>%
  rename(male = Q18A1) %>%
  rename(female = Q18A2) %>%
  rename(m2f = Q18A3) %>%
  rename(f2m = Q18A4) %>%
  rename(genderOther = Q18A5) %>%
  rename(sexuality = Q18C) %>%
  mutate(age = 2021 - Q18G) %>%
  rename(black = Q19A1) %>%
  rename(hispanic = Q19A2) %>%
  rename(asian = Q19A3) %>%
  rename(native = Q19A4) %>%
  rename(white = Q19A5) %>%
  rename(multi = Q19A6) %>%
  rename(raceOther = Q19A7) %>%
  rename(edu = Q22A) %>%
  rename(income = Q22B) %>%
  rename(assessHealth = Q25)
```

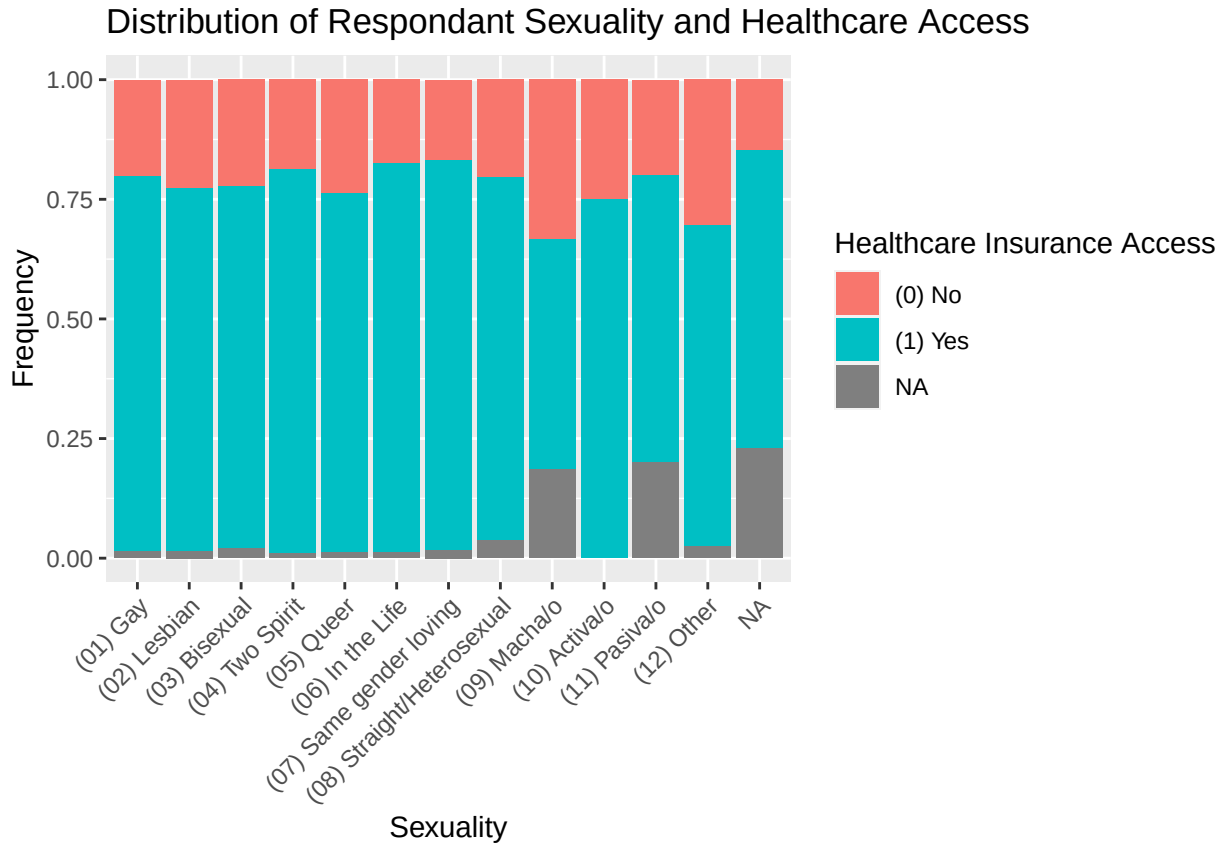
```
data <- data %>%
  mutate(male = if_else(male == "(1) Yes", "male", "")) %>%
  mutate(female = if_else(female == "(1) Yes", "female", "")) %>%
  mutate(m2f = if_else(m2f == "(1) Yes", "m2f", "")) %>%
  mutate(f2m = if_else(f2m == "(1) Yes", "f2m", "")) %>%
  mutate(genderOther = if_else(genderOther == "(1) Yes", "other", "")) %>%
  mutate(gender = "")

data$gender <- paste(data$male, data$female)
data$gender <- paste(data$gender, data$m2f)
data$gender <- paste(data$gender, data$f2m)
data$gender <- paste(data$gender, data$genderOther)
```

```
ggplot(data, aes(x = income)) +
  geom_bar(fill = "#228b22") +
  labs (x = "Reported Income Level",
        y = "Frequency",
        title = "Distribution of Respondant Income Levels",) +
  theme(axis.text.x = element_text(angle = 45,
```

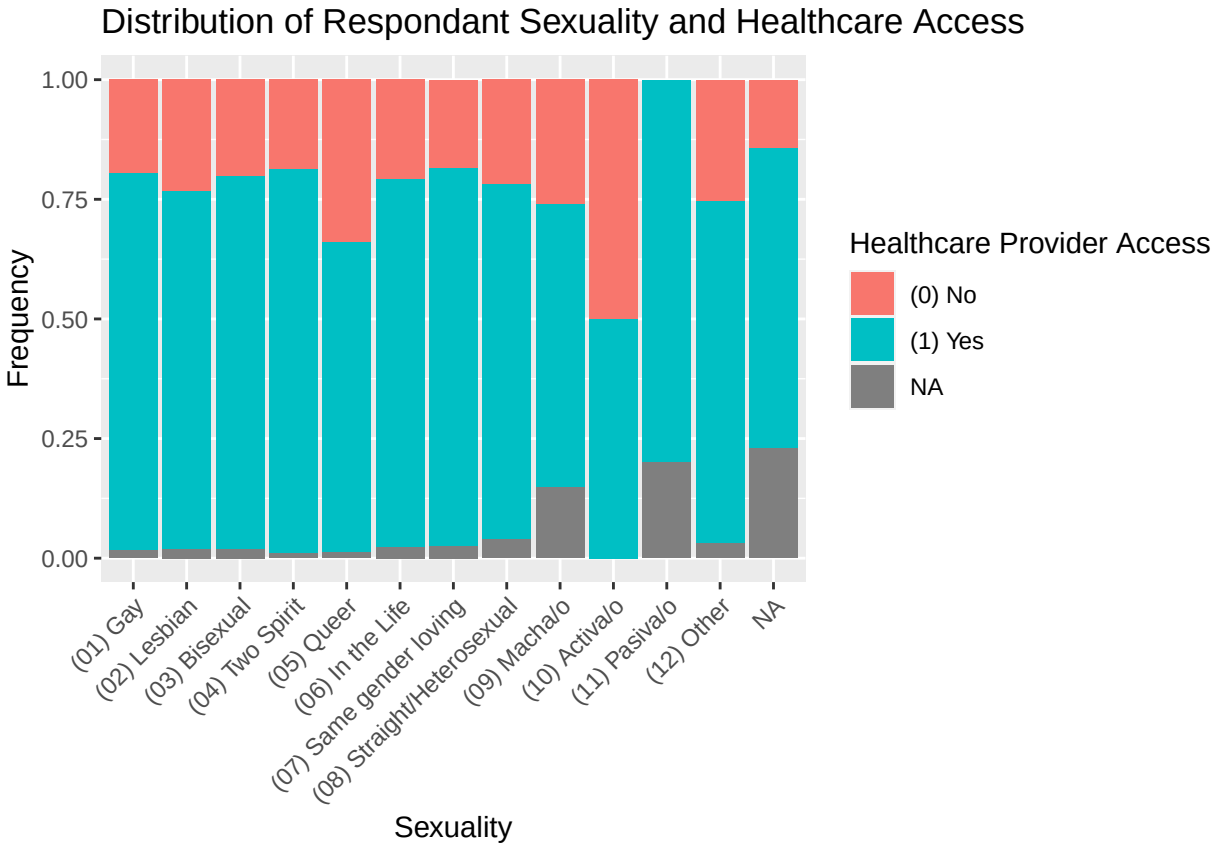
```
                                hjust = 1))
```




```
ggplot(data, aes(x = sexuality,
                         fill = healthInsureAcc)) +
  geom_bar(position = "fill") +
  labs (x = "Sexuality",
        y = "Frequency",
        fill = "Healthcare Insurance Access",
        title = "Distribution of Respondant Sexuality and Healthcare Access") +
  theme(axis.text.x = element_text(angle = 45,
                                   hjust = 1))
```




```
ggplot(data, aes(x = sexuality,
                 fill = healthProvideAcc)) +
  geom_bar(position = "fill") +
  labs (x = "Sexuality",
        y = "Frequency",
        fill = "Healthcare Provider Access",
        title = "Distribution of Respondant Sexuality and Healthcare Access") +
  theme(axis.text.x = element_text(angle = 45,
                                   hjust = 1))
```


Distribution of Respondant Sexuality and Healthcare Access
Frequency
1.00
0.75
0.50
0.25
0.00
(01) Gay
(02) Lesbian
(03) Bisexual
(04) Two Spirit
(05) Queer
(06) In the Life
(07) Same gender loving
(08) Straight/Heterosexual
(09) Macha/o
(10) Activa/o
(11) Pasiva/o
(12) Other
NA
Sexuality
Healthcare Provider Access
(0) No
(1) Yes
NA