

HW6

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4.4.4 Q1

```
df1 <- data.frame(word1 = c('one', 'two', NA), number1 = c(1, NA, 3))
df1
```

```
##   word1 number1
## 1   one        1
## 2   two        NA
## 3 <NA>         3
```

```
df2 <- data.frame(word2 = c('three', NA, 'five'), number2 = c(3, 4, 5))
df2
```

```
##   word2 number2
## 1 three        3
## 2 <NA>         4
## 3 five         5
```

```
my_list = list(df1, df2)
my_list
```

```
## [[1]]
##   word1 number1
## 1   one        1
## 2   two        NA
## 3 <NA>         3
##
## [[2]]
##   word2 number2
## 1 three        3
## 2 <NA>         4
## 3 five         5
```

```
setwd("C:/Users/as345/OneDrive/Desktop")

library(writexl)
```

```
## Warning: package 'writexl' was built under R version 4.3.3
```

```
write_xlsx(my_list, 'list.xlsx')
```

There are two sheets in the file where the first sheet is the first element of `my_list`, or `df`, and the second element `df2` is on the second sheet.

4.4.4 Q2

```
library(readxl)

setwd("C:/Users/as345/OneDrive/Desktop")

hello <- read_excel('list.xlsx', sheet = 2, range = 'A1:A2')
hello
```

```
## # A tibble: 1 x 1
##   word2
##   <chr>
## 1 three
```

4.5.5 Q1

```
library(r02pro)
```

```
## Warning: package 'r02pro' was built under R version 4.3.3
```

```
library(haven)

df <- sahp[1:8, ]

write_sav(df, 'sahp8.sav')
write_sas(df, 'sahp8.sas7bdat')
```

```
## Warning: `write_sas()` was deprecated in haven 2.5.2.
## i Please use `write_xpt()` instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

```
write_dta(df, 'sahp8.dta')
```

4.5.5 Q2

```
df_sav <- read_sav('sahp8.sav')
df_sav
```

```
## # A tibble: 8 x 12
##   dt_sold   bedroom bathroom gar_car oa_qual liv_area lot_area house_style
##   <date>     <dbl>    <dbl>   <dbl>   <dbl>   <dbl>   <dbl> <chr>
## 1 2010-03-25     3      2.5     2       6    1479   13517 2Story
## 2 2009-04-10     4      3.5     2       7    2122   11492 2Story
## 3 2010-01-15     3       2     1       5    1057    7922 1Story
## 4 2010-04-19     3      2.5     2       5    1444    9802 2Story
## 5 2010-03-22     3       2     2       6    1445   14235 1.5Fin
## 6 2010-06-06     2      2.5     2       6    1888   16492 1Story
## 7 2006-06-14     2       3     2       6    1072    3675 SFoyer
## 8 2010-05-08     3       2     2       5    1188   12160 1Story
## # i 4 more variables: kit_qual <chr>, heat_qual <chr>, central_air <chr>,
## #   sale_price <dbl>
```

```
df_sas <- read_sas('sahp8.sas7bdat')
df_sas
```

```
## # A tibble: 8 x 12
##   dt_sold   bedroom bathroom gar_car oa_qual liv_area lot_area house_style
##   <date>     <dbl>    <dbl>   <dbl>   <dbl>   <dbl>   <dbl> <chr>
## 1 2010-03-25     3      2.5     2       6    1479   13517 2Story
## 2 2009-04-10     4      3.5     2       7    2122   11492 2Story
## 3 2010-01-15     3       2     1       5    1057    7922 1Story
## 4 2010-04-19     3      2.5     2       5    1444    9802 2Story
## 5 2010-03-22     3       2     2       6    1445   14235 1.5Fin
## 6 2010-06-06     2      2.5     2       6    1888   16492 1Story
## 7 2006-06-14     2       3     2       6    1072    3675 SFoyer
## 8 2010-05-08     3       2     2       5    1188   12160 1Story
## # i 4 more variables: kit_qual <chr>, heat_qual <chr>, central_air <chr>,
## #   sale_price <dbl>
```

```
df_dta <- read_dta('sahp8.dta')
df_dta
```

```
## # A tibble: 8 x 12
##   dt_sold   bedroom bathroom gar_car oa_qual liv_area lot_area house_style
##   <date>     <dbl>    <dbl>   <dbl>   <dbl>   <dbl>   <dbl> <chr>
## 1 2010-03-25     3      2.5     2       6    1479   13517 2Story
## 2 2009-04-10     4      3.5     2       7    2122   11492 2Story
## 3 2010-01-15     3       2     1       5    1057    7922 1Story
## 4 2010-04-19     3      2.5     2       5    1444    9802 2Story
## 5 2010-03-22     3       2     2       6    1445   14235 1.5Fin
## 6 2010-06-06     2      2.5     2       6    1888   16492 1Story
## 7 2006-06-14     2       3     2       6    1072    3675 SFoyer
## 8 2010-05-08     3       2     2       5    1188   12160 1Story
## # i 4 more variables: kit_qual <chr>, heat_qual <chr>, central_air <chr>,
## #   sale_price <dbl>
```

4.6.3 Q1

```
my_vec <- 1:8
my_list <- list(my_num = 5:10, my_char = letters[1:5])
save(my_vec, my_list, file = 'my_vec_list.RData')
rm(list = ls())
ls()
```

```
## character(0)
```

```
load('my_vec_list.RData')
my_vec
```

```
## [1] 1 2 3 4 5 6 7 8
```

```
my_list
```

```
## $my_num
## [1] 5 6 7 8 9 10
##
## $my_char
## [1] "a" "b" "c" "d" "e"
```

4.6.3 Q2

```
saveRDS(list(my_vec = my_vec, my_list = my_list), 'my_vec_list.rds')
rm(list = ls())
ls()
```

```
## character(0)
```

```
my_vec <- readRDS('my_vec_list.rds')$my_vec
my_vec
```

```
## [1] 1 2 3 4 5 6 7 8
```

```
my_list <- readRDS('my_vec_list.rds')$my_list
my_list
```

```
## $my_num
## [1] 5 6 7 8 9 10
##
## $my_char
## [1] "a" "b" "c" "d" "e"
```