```
library(readr) #importing csv files
 2 library(dplyr) #general analysis
 3
   library(tidyr)
4
 5
   readmission <- read csv("Hospital Readmissions Reduction Program.csv") %>%
   filter(State=='MN')
7
   infections <- read csv("Hospital-Acquired Condition Reduction Program.csv") %>%
8
   filter(State=='MN')
9
   survey <- read csv("Patient survey HCAHPS Hospital.csv") %>% filter(State=='MN')
10
11
12
13
14
   readmission2 <- readmission %>% mutate(discharges=case_when(`Number of Discharges`=='Not
   Available'~0,
                                                                TRUE~as.numeric(`Number of
15
   Discharges`)))
16
17
18
19
20
   #infections table has one record per hospital
21 #winnow down to just the fields we care about
22 infections_2 <- infections %>% select(Hospital_Name, `Provider ID`,Total_HAC_Score,
   Total HAC Footnote) %>%
      rename(hospitalID=`Provider ID`, hospital=`Hospital Name`)
23
24
25
26
27
   #pull out readmission data for heart failure
   readmission hf<- readmission %>% filter(`Measure Name`=='READM-30-HF-HRRP') %>%
28
    select(`Hospital Name`, `Provider Number`,
29
      `Excess Readmission Ratio`) %>%
     rename(HF readmission=`Excess Readmission Ratio`, hospitalID=`Provider Number`,
30
   hospital=`Hospital Name`)
31
   #readmission rates for pneumonia
32
   readmission pn<- readmission %>% filter(`Measure Name` == 'READM-30-PN-HRRP') %>%
    select(`Hospital Name`, `Provider Number`,
34
    `Excess Readmission Ratio`) %>%
     rename(PN_readmission=`Excess Readmission Ratio`, hospitalID=`Provider Number`,
35
   hospital=`Hospital Name`)
36
37
38
   #pull out readmission data for hip/knee surgeries
   readmission hip knee<- readmission %>% filter(`Measure Name`=='READM-30-HIP-KNEE-HRRP')
   %>% select(`Hospital Name`, `Provider Number`,
40
      `Excess Readmission Ratio`) %>%
      rename(HIP_KNEE_readmission = `Excess Readmission Ratio`, hospitalID=`Provider
41
    Number`, hospital=`Hospital Name`)
42
```

```
43
   #pull out summary star rating from survey data
44
45
   star_rating <- survey %>% filter(`HCAHPS Measure ID`=='H_STAR_RATING') %>%
46
      select(`Provider ID`, `Hospital Name`, `Address`, `City`, `County Name`, `Patient
47
    Survey Star Rating`) %>%
     rename(hospitalID=`Provider ID`, hospital=`Hospital Name`)
48
49
50
51
52
53
54
   #join data frames together
55
   hospitals <- inner_join(star_rating, infections_2 %>% select(hospitalID,
   Total HAC Score, Total HAC Footnote), by=c("hospitalID"="hospitalID"))
57
58
   hospitals <- inner join(hospitals, readmission hf %>% select(hospitalID,
   HF readmission), by=c("hospitalID"="hospitalID"))
59
60
   hospitals <- inner_join(hospitals, readmission_hip_knee %>% select(hospitalID,
   HIP KNEE readmission), by=c("hospitalID"="hospitalID"))
61
62
   hospitals <- inner_join(hospitals, readmission_pn %>% select(hospitalID,
    PN_readmission), by=c("hospitalID"="hospitalID"))
63
64
   write.csv(hospitals, "hospitals_fordatawrapper.csv", row.names=FALSE)
65
66
```