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1 library(readr) #importing csv files
2 library(dplyr) #general analysis
3 library(tidyr)
4
5
6 readmission <- read_csv("Hospital_Readmissions_Reduction_Program.csv") %>%
  filter(State=='MN')
7
8 infections <- read_csv("Hospital-Acquired_Condition_Reduction_Program.csv") %>%
  filter(State=='MN')
9
10 survey <- read_csv("Patient_survey_HCAHPS_Hospital.csv") %>% filter(State=='MN')
11
12
13
14 readmission2 <- readmission %>% mutate(discharges=case_when(`Number of Discharges`=='Not
  Available'~0,
15                                     TRUE~as.numeric(`Number of
  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) %>%
23   rename(hospitalID=`Provider ID`, hospital=`Hospital_Name`)
24
25
26
27 #pull out readmission data for heart failure
28 readmission_hf<- readmission %>% filter(`Measure Name`=='READM-30-HF-HRRP') %>%
  select(`Hospital Name`, `Provider Number`,
29        `Excess Readmission Ratio`) %>%
30   rename(HF_readmission=`Excess Readmission Ratio`, hospitalID=`Provider Number`,
  hospital=`Hospital Name`)
31
32 #readmission rates for pneumonia
33 readmission_pn<- readmission %>% filter(`Measure Name`=='READM-30-PN-HRRP') %>%
  select(`Hospital Name`, `Provider Number`,
34        `Excess Readmission Ratio`) %>%
35   rename(PN_readmission=`Excess Readmission Ratio`, hospitalID=`Provider Number`,
  hospital=`Hospital Name`)
36
37
38 #pull out readmission data for hip/knee surgeries
39 readmission_hip_knee<- readmission %>% filter(`Measure Name`=='READM-30-HIP-KNEE-HRRP')
  %>% select(`Hospital Name`, `Provider Number`,
40        `Excess Readmission Ratio`) %>%
41   rename(HIP_KNEE_readmission = `Excess Readmission Ratio`, hospitalID=`Provider
  Number`, hospital=`Hospital Name`)
42

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43 #pull out summary star rating from survey data
44
45
46 star_rating <- survey %>% filter(`HCAHPS Measure ID`=='H_STAR_RATING') %>%
47   select(`Provider ID`, `Hospital Name`, `Address`, `City`, `County Name`, `Patient
Survey Star Rating` ) %>%
48   rename(hospitalID=`Provider ID`, hospital=`Hospital Name`)
49
50
51
52
53
54 #join data frames together
55
56 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
65 write.csv(hospitals, "hospitals_fordatawrapper.csv", row.names=FALSE)
66
```