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Shekeen / Computing-For-Data-Analysis-Class

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Computing-For-Data-Analysis-Class / ProgAssignment2-data / rankall.R



Shekeen on Oct 18, 2012 Initial commit

1 contributor

36 lines (30 sloc) 1.348 kb

Raw

Blame

History



```
1 rankall <- function(outcome, num = "best") {
2   full_data <- read.csv("outcome-of-care-measures.csv", colClasses="character")
3
4   column <- if (outcome == "heart attack") {
5     full_data[, 11] <- as.numeric(full_data[, 11])
6     "Hospital.30.Day.Death..Mortality..Rates.from.Heart.Attack"
7   } else if (outcome == "heart failure") {
8     full_data[, 17] <- as.numeric(full_data[, 17])
9     "Hospital.30.Day.Death..Mortality..Rates.from.Heart.Failure"
10  } else if (outcome == "pneumonia") {
11    full_data[, 23] <- as.numeric(full_data[, 23])
12    "Hospital.30.Day.Death..Mortality..Rates.from.Pneumonia"
13  } else {
14    stop("invalid outcome")
15  }
16
17  data_by_state <- split(full_data[, c("Hospital.Name", "State", column)], full_data$State)
18
19  rank_hospital <- function(state_data, num) {
20    ordered_state_data <- order(state_data[,3], state_data$Hospital.Name, na.last=NA)
21
22    if (num == "best") {
23      state_data$Hospital.Name[ordered_state_data[1]]
24    } else if (num == "worst") {
25      state_data$Hospital.Name[ordered_state_data[length(ordered_state_data)]]
26    } else if (is.numeric(num)) {
27      state_data$Hospital.Name[ordered_state_data[num]]
28    } else {
29      stop("invalid num")
30    }
31  }
32
33  pre_result <- lapply(data_by_state, rank_hospital, num)
34
35  data.frame(hospital = unlist(pre_result), state = names(pre_result), row.names = names(pre_result))
36 }
```

