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ConAntonakos / Computing_for_Data_Analysis

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Computing_for_Data_Analysis / best.R



ConAntonakos on Oct 22, 2012 Initial commit

1 contributor

42 lines (33 sloc) 1.283 kb

Raw

Blame

History



```
1 best <- function(state, outcome) {
2   ## Read outcome data
3   readfile = read.csv("outcome-of-care-measures.csv", colClasses = "character")
4   State = readfile[, "State"]
5   Hospital.Name = readfile[, "Hospital.Name"]
6   Heart.Attack = readfile[, 11]
7   Heart.Failure = readfile[, 17]
8   Pneumonia = readfile[, 23]
9
10  my.data = data.frame(Heart.Attack, Heart.Failure, Pneumonia, State, Hospital.Name)
11
12
13  bool.state = my.data[, "State"] == state
14  state.data = my.data[bool.state, ]
15  state.data = na.omit(state.data)
16
17  ## sorted.best.data = state.data[order(Heart.Attack, Heart.Failure, Pneumonia, State, Hospital.Name), ]
18
19  ## Check that state and outcome are valid
20  if(nrow(state.data) == 0){
21    stop("Invalid state")
22  }
23  ## Return hospital name in that state with lowest 30-day death
24  ## rate
25  if(outcome == "heart attack"){
26    minRate = min(state.data[,1])
27    minHospital = state.data[which(state.data[,1] == minRate), "Hospital.Name"]
28
29
30  }else if(outcome == "heart failure"){
31    minRate = min(state.data[,2])
32    minHospital = state.data[which(state.data[,2] == minRate), "Hospital.Name"]
33
34  }else if(outcome == "pneumonia"){
35    minRate = min(state.data[,3])
36    minHospital = state.data[which(state.data[,3] == minRate), "Hospital.Name"]
37  } else {
38    stop("Invalid outcome")
39  }
40  return(minHospital)
41
42 }
```

