Homework06a

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This file was created on 2020-07-06 and last modified on 2021-02-22.

Note: this solution uses R and SQLite. An alternate solution using SAS and Oracle is also available.

For your homework, use the hospital database that I mentioned briefly earlier in this lecture.

- 1. Verify that the hospital id code (HOSP_ID) has no missing values.
- 2. There are only two fields in the database that have null values. Get a count of the number of missing values for the indicator for teaching hospital (TEACHING_IND).
- 3. There is only one hospital where the number of beds (BED_SIZE) is unknown. Find the id of that hospital.
- 4. Combine your results into a single PDF file and submit it.;

Note: Some of the names used in this code are arbitrary and you can choose whatever names you want. To emphasize which names can be modified at your discretion, I am using names of famous statisticians.

The statistician being honored in this code is David Blackwell.

```
library(sqldf)
## Loading required package: gsubfn
## Loading required package: proto
## Loading required package: RSQLite
blackwell <- dbConnect(SQLite(),</pre>
  dbname="../data/ehr.sqlite")
david1 <- dbGetQuery(conn=blackwell,</pre>
    select
      count(*) as number_missing_ids
    from hospital
    where HOSP_ID is null
")
david1
##
     number missing ids
## 1
dbDisconnect(conn=blackwell)
```

```
library(sqldf)
blackwell <- dbConnect(SQLite(),</pre>
  dbname="../data/ehr.sqlite")
david2 <- dbGetQuery(conn=blackwell, "</pre>
    select
      count(*) as number_missing_teaching_ind
      from hospital
      where TEACHING_IND is null
")
david2
##
   number_missing_teaching_ind
## 1
dbDisconnect(conn=blackwell)
library(sqldf)
blackwell <- dbConnect(SQLite(),</pre>
  dbname="../data/ehr.sqlite")
david3 <- dbGetQuery(conn=blackwell, "</pre>
    select
      HOSP_ID
      from hospital
      where BED_SIZE is null
")
david3
## [1] HOSP_ID
## <0 rows> (or 0-length row.names)
dbDisconnect(conn=blackwell)
```