Homework06a

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

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(),
  dbname="../data/hospital.sqlite")
david1 <- dbGetQuery(conn=blackwell,  "
    select
      count(*) as number_missing_ids
    from hospital
    where HOSP_ID is null
")

david1
```

```
##   number_missing_ids
## 1                  0
```

```
dbDisconnect(conn=blackwell)
```

```
library(sqldf)
blackwell <- dbConnect(SQLite(),
  dbname="../data/hospital.sqlite")
david2 <- dbGetQuery(conn=blackwell,  "
    select
      count(*) as number_missing_teaching_ind
      from hospital
      where TEACHING_IND is null
```

```
")

david2
```

```
##   number_missing_teaching_ind
## 1                          42
```

```
dbDisconnect(conn=blackwell)
```

```
library(sqldf)
blackwell <- dbConnect(SQLite(),
  dbname="../data/hospital.sqlite")
david3 <- dbGetQuery(conn=blackwell,  "
    select
      HOSP_ID
      from hospital
      where BED_SIZE is null
")

david3
```

```
##   HOSP_ID
## 1     939
```

```
dbDisconnect(conn=blackwell)
```