Module06 homework Q3

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Dates: This file was created on 2020-07-14 and last modified on 2021-07-14.

Purpose: Answer Homework questions from module06

This solution uses R and SQLite. An alternate solution using SAS and Oracle is also available.

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 Robert V. Hogg.

3. Get a count of the numbers of males and females where you restrict age to be less than 40. Use the label for sex, but convert it to all uppercase.

```
library(sqldf)
```

```
## Loading required package: gsubfn
```

```
## Loading required package: proto
```

```
## Loading required package: RSQLite
```

```
hogg <- dbConnect(SQLite(),
  dbname="../data/melange.sqlite")
robert <- dbGetQuery(conn=hogg,  "
    select
        upper(s.sex_label) as sex,
        count(*) as n
    from acupuncture_demographics as d
    join acupuncture_sex_labels as s
      on d.sex=s.sex_code
    where age < 40
    group by d.sex
")
robert
```

```
##       sex  n
## 1    MALE 15
## 2 FEMALE 92
```

```
dbDisconnect(conn=hogg)
```