Homework14a

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This file was created on 2020-07-24 and last modified on 2021-04-10.

Note: 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 Helen Walker.

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1. Compute the intersection of the ids from acupuncture_baseline_results and acupuncture_one_year_results. Display the first ten rows of data only.

```
library(sqldf)
## Loading required package: gsubfn
## Loading required package: proto
## Loading required package: RSQLite
walker <- dbConnect(SQLite(),</pre>
  dbname="../data/melange.sqlite")
helen1 <- dbGetQuery(conn=walker, "
    select id
      from acupuncture_baseline_results
    intersect
    select id
      from acupuncture_one_year_results
    limit 10
")
helen1
##
       id
## 1
      104
## 2
      108
```

dbDisconnect(conn=walker)

2. Compute the union of the ids from acupuncture_baseline_results and acupuncture_one_year_results. Display the first ten rows of data only.

```
##
      id
## 1
     100
## 2
     101
## 3
     104
## 4 105
## 5 108
## 6 112
## 7
     113
## 8 114
## 9 126
## 10 130
```

dbDisconnect(conn=walker)

3. In a previous module, you were asked to list the first ten ids that were in acupuncture_baseline_resuts but not in acupuncture_one_year_results. Use the set operator "minus" to achieve the same goal. Note: for SQLite, use "except" instead of "minus".

```
library(sqldf)
walker <- dbConnect(SQLite(),
   dbname="../data/melange.sqlite")
helen3 <- dbGetQuery(conn=walker, "
   select id
      from acupuncture_baseline_results
   except
   select id
      from acupuncture_one_year_results
   limit 10
")
helen3</pre>
```

```
## 1 100
## 2 101
## 3 105
## 4 138
## 5 139
## 6 151
## 7 154
## 8 159
## 9 164
## 10 166
```

dbDisconnect(conn=walker)