Module07, Q1

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This file was created on 2020-07-24 and last modified on 2021-07-17.

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 Hirotugu Akaike.

library(sqldf)

Q1. Count the number of records after an inner join of acupuncture_baseline_results and acupuncture_one_year_results. Count the number of records after a left join of acupuncture_baseline_results and acupuncture_one_year_results. Why are these numbers different?

```
## Loading required package: gsubfn
## Loading required package: proto
## Loading required package: RSQLite
akaike <- dbConnect(SQLite(),</pre>
  dbname="../data/melange.sqlite")
hirotugu_inner <- dbGetQuery(conn=akaike,
    select count(*) as n
      from acupuncture_baseline_results as b
      join acupuncture_one_year_results as o
      on b.id=o.id
")
hirotugu_inner
##
       n
## 1 301
hirotugu_left <- dbGetQuery(conn=akaike,
    select count(*) as n
      from acupuncture_baseline_results as b
      left join acupuncture_one_year_results as o
      on b.id=o.id
")
hirotugu_left
##
       n
## 1 401
dbDisconnect(conn=akaike)
```