Module07, Q4

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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.

Q4. There are 100 patients with baseline values but no values at one year. Use a left join to identify these patients. Print the ids of the first ten of these patients.

```
library(sqldf)
```

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

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

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

```
akaike <- dbConnect(SQLite(),
  dbname="../data/melange.sqlite")
hirotugu_q4 <- dbGetQuery(conn=akaike,  "
    select
      b.id as unmatched_ids
      from acupuncture_baseline_results as b
      left join acupuncture_one_year_results as o
      on b.id=o.id
    where o.id is null
")

hirotugu_q4
```

```
##     unmatched_ids
## 1             100
## 2             101
## 3             105
## 4             138
## 5             139
## 6             151
## 7             154
## 8             159
## 9             164
## 10            166
## 11            172
## 12            174
## 13            182
## 14            191
```

```
## 15          197
## 16          210
## 17          215
## 18          216
## 19          220
## 20          229
## 21          244
## 22          252
## 23          261
## 24          263
## 25          268
## 26          271
## 27          295
## 28          310
## 29          315
## 30          322
## 31          331
## 32          358
## 33          364
## 34          374
## 35          376
## 36          385
## 37          389
## 38          390
## 39          399
## 40          418
## 41          425
## 42          426
## 43          442
## 44          446
## 45          447
## 46          450
## 47          472
## 48          486
## 49          489
## 50          506
## 51          507
## 52          511
## 53          523
## 54          525
## 55          536
## 56          539
## 57          542
## 58          543
## 59          546
## 60          547
## 61          550
## 62          580
## 63          581
## 64          584
## 65          586
## 66          597
## 67          606
## 68          607
```

```
## 69            623
## 70            631
## 71            632
## 72            634
## 73            640
## 74            641
## 75            645
## 76            659
## 77            679
## 78            681
## 79            688
## 80            693
## 81            698
## 82            699
## 83            700
## 84            702
## 85            705
## 86            715
## 87            726
## 88            735
## 89            745
## 90            763
## 91            767
## 92            771
## 93            778
## 94            782
## 95            784
## 96            788
## 97            794
## 98            832
## 99            857
## 100           895
```

```
dbDisconnect(conn=akaike)
```