

# Module04, homework, Q1

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Dates: This file was created on 2021-02-22 and last modified on 2021-06-27.

Purpose: To answer M04-Q01. Use the cigarettes table in the melange database. The variable weight\_g is recorded to four decimal places. Round all the values to two decimal places and display them.

Note: this solution uses R and SQLite. An alternate solution using SAS and Oracle is also available.

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 John Tukey.

```
library(sqldf)
```

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

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

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

```
tukey <- dbConnect(SQLite(),
  dbname="../data/melange.sqlite")

john <- dbGetQuery(conn=tukey, "
  select
    weight_g, round(weight_g, 2) as rounded_weight
  from cigarettes
")

john
```

```
##      weight_g rounded_weight
## 1      0.9853           0.99
## 2      1.0938           1.09
## 3      1.1650           1.17
## 4      0.9280           0.93
## 5      0.9462           0.95
## 6      0.8885           0.89
## 7      1.0267           1.03
## 8      0.9225           0.92
## 9      0.9372           0.94
## 10     0.8858           0.89
## 11     0.9643           0.96
## 12     0.9316           0.93
```

## 13	0.9705	0.97
## 14	1.1240	1.12
## 15	0.8517	0.85
## 16	0.7851	0.79
## 17	0.9186	0.92
## 18	1.0395	1.04
## 19	0.9573	0.96
## 20	0.9106	0.91
## 21	1.0070	1.01
## 22	0.9806	0.98
## 23	0.9693	0.97
## 24	0.9496	0.95
## 25	1.1184	1.12

```
dbDisconnect(conn=tukey)
```