

Module05 homework, Q2

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

Purpose: Answer M05-Q2. Use the hospital table in the ehr database. Convert null values of teaching_ind to -1 and print the values only for census_reg = "West". Hint: Use coalesce function.

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 Barbara A. Bailar.

```
library(sqldf)
```

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

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

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

```
bailar <- dbConnect(SQLite(),  
  dbname="../data/ehr.sqlite")  
barbara <- dbGetQuery(conn=bailar, "  
  select  
    teaching_ind,  
    coalesce(teaching_ind, -1) as imputed_value  
  from hospital  
  where census_reg='West'  
")
```

```
barbara
```

```
##      TEACHING_IND imputed_value  
## 1             NA             -1  
## 2             NA             -1  
## 3              0              0  
## 4             NA             -1  
## 5             NA             -1  
## 6             NA             -1  
## 7             NA             -1  
## 8             NA             -1  
## 9              0              0  
## 10            1              1  
## 11            NA             -1
```

## 12	NA	-1
## 13	NA	-1
## 14	NA	-1
## 15	0	0
## 16	NA	-1
## 17	0	0
## 18	NA	-1
## 19	NA	-1
## 20	NA	-1
## 21	NA	-1
## 22	NA	-1
## 23	NA	-1
## 24	NA	-1
## 25	0	0
## 26	NA	-1
## 27	NA	-1
## 28	0	0
## 29	0	0

```
dbDisconnect(conn=bailar)
```