# MSDS7333-Real Time Location Systems

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## Contents

Load Data	1
Structure of the Data	1
Summary	2

#### Load Data

# Structure of the Data

```
str(offline)

## 'data.frame': 1181628 obs. of 10 variables:

## $ time : chr "1139643118358" "1139643118358" "1139643118358" ...
```

```
"00:02:2D:21:0F:33" "00:02:2D:21:0F:33" "00:02:2D:21:0F:33" "00:02:2D:21:0F:33"
## $ scanMac
                 : chr
## $ posX
                       "0.0" "0.0" "0.0" "0.0" ...
                 : chr
                        "0.0" "0.0" "0.0" "0.0" ...
## $ posY
                 : chr
                        "0.0" "0.0" "0.0" "0.0" ...
## $ posZ
                 : chr
## $ orientation: chr
                        "0.0" "0.0" "0.0" "0.0" ...
## $ mac
                        "00:14:bf:b1:97:8a" "00:14:bf:b1:97:90" "00:0f:a3:39:e1:c0" "00:14:bf:b1:97:8d"
                 : chr
                        "-38" "-56" "-53" "-65" ...
## $ signal
                 : chr
                        "2437000000" "2427000000" "2462000000" "2442000000" ...
## $ channel
                 : chr
   $ type
                 : chr
                        "3" "3" "3" "3" ...
```

#### Summary

```
##
       time
                        scanMac
                                                              posY
                                            posX
## Length:1181628
                      Length: 1181628
                                        Length: 1181628
                                                          Length: 1181628
                                                          Class :character
## Class :character
                      Class :character
                                        Class : character
                      Mode :character
##
   Mode :character
                                        Mode :character
                                                          Mode :character
##
       posZ
                      orientation
                                            mac
                                                             signal
## Length:1181628
                      Length: 1181628
                                        Length: 1181628
                                                          Length: 1181628
## Class :character Class :character
                                        Class :character
                                                          Class : character
                     Mode :character
## Mode :character
                                                          Mode :character
                                        Mode :character
##
     channel
                         type
## Length:1181628
                    Length:1181628
## Class :character Class :character
## Mode :character
                     Mode :character
```

#### offline %>% count(mac) %>% arrange(n)

```
##
                   mac
                            n
## 1 02:0a:3d:06:94:88
                             1
## 2 02:42:1c:4e:b5:c0
                             1
## 3 02:4f:99:43:30:cd
                            1
                          103
## 4 00:e0:63:82:8b:a9
## 5 00:30:bd:f8:7f:c5
                           301
## 6 00:04:0e:5c:23:fc
                          418
## 7 02:5c:e0:50:49:de
                          6997
## 8 02:b7:00:bb:a9:35
                         7602
## 9 02:37:fd:3b:54:b5
                         8732
## 10 00:0f:a3:39:e2:10 19162
## 11 02:2e:58:22:f1:ac
                        25112
## 12 00:0f:a3:39:e0:4b 43508
## 13 02:64:fb:68:52:e6 50852
## 14 02:00:42:55:31:00 103887
## 15 00:14:bf:b1:97:81 120339
## 16 00:14:bf:b1:97:8d 121325
## 17 00:14:bf:b1:97:90 122315
## 18 00:14:bf:3b:c7:c6 126529
## 19 00:14:bf:b1:97:8a 132962
## 20 00:0f:a3:39:dd:cd 145619
## 21 00:0f:a3:39:e1:c0 145862
```