

## Lab 5: Data cleaning

Fill in your full name

2025-10-02

### Exercises

#### Exercise 1

```
## [1] "tow_date"          "make"              "style"
## [4] "model"            "color"             "plate"
## [7] "state"            "towed_to_address"  "tow_facility_phone"
## [10] "inventory_number"
```

#### Exercise 2

```
library(lubridate)
```

```
towed_renamed_2 <- towed_renamed %>%
  mutate(tow_date = mdy(tow_date))
str(towed_renamed_2)
```

```
## tibble [5,185 x 10] (S3: tbl_df/tbl/data.frame)
## $ tow_date      : Date[1:5185], format: "2018-03-30" "2018-03-30" ...
## $ make          : chr [1:5185] "VOLK" "LEXS" "CHEV" "BUIC" ...
## $ style         : chr [1:5185] "4D" "LL" "LL" "4D" ...
## $ model         : chr [1:5185] NA NA "TK" NA ...
## $ color         : chr [1:5185] "WHI" "TAN" "MAR" "BLK" ...
## $ plate         : chr [1:5185] "988T647" "3875313" NA "AG71211" ...
## $ state         : chr [1:5185] "IL" "IN" "IL" "IL" ...
## $ towed_to_address : chr [1:5185] "701 N. Sacramento" "701 N. Sacramento" "701 N. Sacramen
## $ tow_facility_phone: chr [1:5185] "(773) 265-7605" "(773) 265-7605" "(773) 265-7605" "(77
## $ inventory_number : int [1:5185] 6919167 6919168 6921673 2845513 6921674 1718330 2851569
## - attr(*, "spec")=
## .. cols(
## ..   'Tow Date' = col_character(),
## ..   Make = col_character(),
## ..   Style = col_character(),
## ..   Model = col_character(),
```

```
## .. Color = col_character(),
## .. Plate = col_character(),
## .. State = col_character(),
## .. 'Towed to Address' = col_character(),
## .. 'Tow Facility Phone' = col_character(),
## .. 'Inventory Number' = col_integer()
## .. )
```

```
class(towed_renamed_2$tow_date)
```

```
## [1] "Date"
```

### Exercise 3

```
tow_make_count <- towed_renamed_2 %>%
  count(make)

nrow(tow_make_count)
```

```
## [1] 78
```

```
tow_make_count %>%
  filter(n == 1)
```

make	n
AIRS	1
BUCI	1
CADE	1
CHEC	1
CHYI	1
CYCL	1
DAEW	1
DODD	1
FIAT	1
GM	1
HARL	1
HUMM	1
INTL	1
LEIR	1
LNDR	1
MASE	1
MCCY	1
MERD	1

make	n
MG	1
MIST	1
OPEL	1
PONY	1
RAMS	1
ROV	1
ROYC	1
SPAR	1
TRLR	1
WORK	1

**Exercise 4**

**Exercise 5**

**Exercise 6**

**Exercise 7**

**Exercise 8**

**Additional questions**

**Question 1**

**Question 2**