

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

```
## 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" "(773
## $ 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()
## .. )
## [1] "Date"
```

Exercise 3

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

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

Exercise 4

```
tow_make_count_1 <- tow_make_count %>%  
  slice(1:20)  
  
tow_make_count_2 <- tow_make_count %>%  
  slice(21:40)  
  
tow_make_count_3 <- tow_make_count %>%  
  slice(41:60)
```

```
tow_make_count_4 <- tow_make_count %>%  
  slice(61:80)
```

Exercise 5

```
towed_clean <- towed_renamed_2 %>%  
  mutate(  
    make = recode(  
      make,  
      DODD = "DODG",  
      CHEVV = "CHEV",  
      TOYTA = "TOYT"  
    )  
  )
```

Exercise 6

```
towed_partial_clean <- towed_renamed_2 %>%  
  mutate(  
    make = recode(  
      make,  
      DODD = "DODG",  
      BUCI = "BUIC"  
    )  
  )
```

Exercise 7

```
towed_partial_clean <- towed_partial_clean %>%  
  mutate(  
    make = recode(  
      make,  
      JAG = "JAGU"  
    )  
  )
```

Exercise 8

```
towed_make_clean <- towed_partial_clean %>%  
  mutate(  
    make = recode(  
      make,  
      "DODD" = "DODG",    # Dodge  
      "DODD" = "DODG",    # sometimes a zero sneaks in  
      "BUIC" = "BUIC",    # Buick  
      "JAG"  = "JAGU"     # Jaguar (per VTR-249.pdf)  
    )  
  )
```

Additional questions

Question 1

Question 2