# Exploiter {janitor} pour nettoyer les données

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# 1 import des packages

```
library(tidyverse)
library(janitor)
```

# 2 import des données

Les données ont été créées pour l'occasion.

```
data <- readxl::read_xlsx("data/donnees.xlsx")</pre>
```

### 3 Regardons un peu les données

#### glimpse(data)

```
Rows: 22
Columns: 8
$ `Prénom Patient.e` <chr> "Paula", "Pierre", "Antoine", "Adrien", "Alice", "S~
$ `Sexe / genre`
                 <chr> "F", "M", "M", "F", "F", "M", "F", "M", "F", "A", "F", "~
                 <chr> "2024-01-01", "2024-01-16", "2024-01-31", "2024-02-~
$ date
$ `Album in\r\ng/dL` <dbl> 3.6, 3.9, 3.6, 3.9, 4.1, 3.8, 3.7, 3.7, 3.7, 3.4, 3~
$ `Fructose mg/dL`
                 $ `Glucose mg/dL`
                 <dbl> 92.85714, 89.14286, 89.88571, 85.42857, 96.57143, 8~
$ `Na (mmol/L)`
                 <dbl> 2.3, 2.0, 2.0, 2.0, 1.9, 2.0, 2.2, 2.1, 2.1, 2.6, 2~
$ `Globulin g/dL`
```

#### summary(data)

```
Prénom Patient.e
                   Sexe / genre
                                          date
                                                          Album in\r\ng/dL
                                                                :3.400
Length:22
                   Length:22
                                      Length:22
                                                         Min.
Class :character
                   Class : character
                                      Class : character
                                                         1st Qu.:3.700
Mode :character
                   Mode :character
                                      Mode :character
                                                         Median :3.800
                                                         Mean
                                                                :3.809
                                                         3rd Qu.:3.900
                                                         Max.
                                                                :4.200
Fructose mg/dL Glucose mg/dL
                               Na (mmol/L) Globulin g/dL
Mode:logical
              Min.
                      :81.71
                               Min.
                                      :150
                                             Min.
                                                    :1.900
NA's:22
               1st Qu.:84.87
                               1st Qu.:150
                                             1st Qu.:2.000
               Median :86.91
                               Median :150
                                             Median :2.100
                      :87.39
               Mean
                               Mean
                                      :150
                                             Mean
                                                    :2.109
               3rd Qu.:89.70
                               3rd Qu.:150
                                             3rd Qu.:2.175
               Max.
                      :96.57
                               Max.
                                      :150
                                             Max.
                                                    :2.600
```

#### 4 Améliorer les noms des colonnes

```
donnees <- readxl::read_xlsx("data/donnees.xlsx") |>
  clean_names(case = "big_camel")
```



```
donnees <- readxl::read_xlsx("data/donnees.xlsx") |>
  clean_names() |>
  mutate(
    prenom_patient_e = make_clean_names(prenom_patient_e)
)
```

## 5 retirer les colonnes vides

```
donnees <- readxl::read_xlsx("data/donnees.xlsx") |>
  clean_names() |>
  mutate(
    prenom_patient_e = make_clean_names(prenom_patient_e)
    ) |>
  remove_constant()
```

### 6 traiter les dates excel

```
donnees <- readxl::read_xlsx("data/donnees.xlsx") |>
  clean_names() |>
```

```
mutate(
    prenom_patient_e = make_clean_names(prenom_patient_e)
) |>
remove_constant() |>
mutate(
    date =
        case_when(
        str_detect(date, "-") ~ date,
        TRUE ~ date |>
            as.numeric() |>
            excel_numeric_to_date() |>
            as.character()
) |>
        ymd()
)
```

# 7 créer des tableaux résumés rapidement

```
tabyl(donnees, date)
```

```
date n
                percent
2024-01-01 1 0.04545455
2024-01-10 1 0.04545455
2024-01-12 1 0.04545455
2024-01-13 1 0.04545455
2024-01-15 1 0.04545455
2024-01-16 3 0.13636364
2024-01-18 1 0.04545455
2024-01-19 2 0.09090909
2024-01-31 1 0.04545455
2024-02-15 1 0.04545455
2024-02-16 1 0.04545455
2024-02-17 1 0.04545455
2024-02-18 1 0.04545455
2024-03-01 1 0.04545455
2024-03-02 1 0.04545455
2024-03-03 1 0.04545455
2024-03-04 1 0.04545455
2024-04-11 1 0.04545455
```

#### 2024-04-16 1 0.04545455

```
tabyl(donnees, sexe_genre, date) |>
  adorn_totals(where = c("row", "col")) |>
  adorn_percentages() |>
  adorn_pct_formatting(digits = 0) |>
  adorn_ns() |>
  adorn_title()
```

	date					
sexe_genre	2024-01-01	2024-01-10	2024-01-12	2024-01-13	2024-01-15	2024-01-16
F	8% (1)	0% (0)	0% (0)	0% (0)	8% (1)	17(2)
M	0% (0)	10% (1)	10% (1)	10% (1)	0% (0)	10(1)
Total	5% (1)	5% (1)	5% (1)	5% (1)	5% (1)	14(3)
2024-01-18	2024-01-19	2024-01-31	2024-02-15	2024-02-16	2024-02-17	2024-02-18
8% (1)	17% (2)	0% (0)	0% (0)	0% (0)	0% (0)	8(1)
0% (0)	0% (0)	10% (1)	10% (1)	10% (1)	10% (1)	0(0)
5% (1)	9% (2)	5% (1)	5% (1)	5% (1)	5% (1)	5(1)
2024-03-01	2024-03-02	2024-03-03	2024-03-04	2024-04-11	2024-04-16	Total
8% (1)	8% (1)	8% (1)	0% (0)	0% (0)	8% (1)	100 (12)
0% (0)	0% (0)	0% (0)	10% (1)	10% (1)	0% (0)	100 (10)
5% (1)	5% (1)	5% (1)	5% (1)	5% (1)	5% (1)	100 (22)