

Prétraitement des données

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Dresser la table

```
#install.packages("table1")
```

```
rm(list = ls())  
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --  
## v dplyr      1.1.4      v readr      2.1.5  
## v forcats    1.0.0      v stringr   1.5.1  
## v ggplot2    3.4.4      v tibble    3.2.1  
## v lubridate  1.9.3      v tidyr     1.3.1  
## v purrr      1.0.2  
## -- Conflicts ----- tidyverse_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag()     masks stats::lag()  
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
library(summarytools) # Analyse descriptive
```

```
##  
## Attaching package: 'summarytools'  
##  
## The following object is masked from 'package:tibble':  
##  
## view
```

```
library(gtsummary) # Analyse descriptive
```

```
## #BlackLivesMatter
```

```
library(table1) # Analyse descriptive
```

```
##  
## Attaching package: 'table1'  
##  
## The following objects are masked from 'package:summarytools':
```

```
##
##   label, label<-
##
## The following objects are masked from 'package:base':
##
##   units, units<-
```

```
library(haven)           # Ouvrir les fichiers stata
```

Ouvrir une base de données

```
bf <- read_dta("../Donnee/BFKR81FL.DTA")
```

Liste des noms de fichiers de données pour chaque pays d’afrique de l’ouest

```
KR <- c("BFKR81FL", "BJKR71FL", "CIKR81FL", "GMKR81FL", "GNKR71FL", "LBKR7AFL", "MLKR7AFL", "MRKR71FL", "NGKR7BFL")
```

Fonction pour traiter les fichiers enfants

- M18 poids qualitatif
- midx :

```
file_kr <- function(data) {
  data_kr <- read_dta(paste0("../Donnee/", data, ".DTA"))
  data_kr_sub <- data_kr %>%
    select(caseid, v000, v001, v002, v005, v131, v157, v158, v159, v106, v743a, v743b,
           v743d, v744a, v744b, v744c, v744d, v744e, v717, v012, midx, m18, m19, b11, b4, m15, bord, v150,
           v151, v190, v136, v025, v130, v445, b5, v701, v024, v367, v426, v113, v115,
           v116, v445, m14, m70, v313)
  return(data_kr_sub)
}

# purrrr

data_kr <- map(KR, file_kr)
```

```
dhs_child_west_africa <- bind_rows(data_kr)
```

```
## Warning: ‘..1$v131’ and ‘..2$v131’ have conflicting value labels.
## i Labels for these values will be taken from ‘..1$v131’.
## x Values: 1, 2, 3, 4, 5, 6, 7, and 8
```

```
## Warning: ‘..1$m15’ and ‘..2$m15’ have conflicting value labels.
## i Labels for these values will be taken from ‘..1$m15’.
## x Values: 21, 22, 23, 26, 30, 31, and 36
```

```

## Warning: '..1$v130' and '..2$v130' have conflicting value labels.
## i Labels for these values will be taken from '..1$v130'.
## x Values: 1, 2, 3, 4, and 5

## Warning: '..1$v024' and '..2$v024' have conflicting value labels.
## i Labels for these values will be taken from '..1$v024'.
## x Values: 1, 2, 3, 4, 5, 6, 7, 8, ..., 11, and 12

## Warning: '..1$v113' and '..2$v113' have conflicting value labels.
## i Labels for these values will be taken from '..1$v113'.
## x Values: 21 and 72

## Warning: '..1$midx' and '..3$midx' have conflicting value labels.
## i Labels for these values will be taken from '..1$midx'.
## x Values: 0

## Warning: '..1$m15' and '..3$m15' have conflicting value labels.
## i Labels for these values will be taken from '..1$m15'.
## x Values: 21, 22, 23, 24, 25, 26, 30, 31, ..., 36, and 40

## Warning: '..1$v150' and '..3$v150' have conflicting value labels.
## i Labels for these values will be taken from '..1$v150'.
## x Values: 2, 3, 4, 5, 6, 7, and 8

## Warning: '..1$v130' and '..3$v130' have conflicting value labels.
## i Labels for these values will be taken from '..1$v130'.
## x Values: 3, 4, 5, and 6

## Warning: '..1$v024' and '..3$v024' have conflicting value labels.
## i Labels for these values will be taken from '..1$v024'.
## x Values: 1, 2, 3, 4, 5, 6, 7, 8, ..., 12, and 13

## Warning: '..1$v113' and '..3$v113' have conflicting value labels.
## i Labels for these values will be taken from '..1$v113'.
## x Values: 21 and 72

## Warning: '..1$v131' and '..4$v131' have conflicting value labels.
## i Labels for these values will be taken from '..1$v131'.
## x Values: 1, 2, 3, 4, 5, 6, 7, 8, 9, and 996

## Warning: '..1$v717' and '..4$v717' have conflicting value labels.
## i Labels for these values will be taken from '..1$v717'.
## x Values: 96

## Warning: '..1$m15' and '..4$m15' have conflicting value labels.
## i Labels for these values will be taken from '..1$m15'.
## x Values: 21, 22, 23, 26, 30, 31, 32, and 36

## Warning: '..1$v130' and '..4$v130' have conflicting value labels.
## i Labels for these values will be taken from '..1$v130'.
## x Values: 1, 2, and 4

```

```

## Warning: '..1$v024' and '..4$v024' have conflicting value labels.
## i Labels for these values will be taken from '..1$v024'.
## x Values: 1, 2, 3, 4, 5, 6, 7, and 8

## Warning: '..1$v113' and '..4$v113' have conflicting value labels.
## i Labels for these values will be taken from '..1$v113'.
## x Values: 21

## Warning: '..1$v131' and '..5$v131' have conflicting value labels.
## i Labels for these values will be taken from '..1$v131'.
## x Values: 1, 2, 3, 4, 5, 6, 96, and 97

## Warning: '..1$v717' and '..5$v717' have conflicting value labels.
## i Labels for these values will be taken from '..1$v717'.
## x Values: 10 and 96

## Warning: '..1$m15' and '..5$m15' have conflicting value labels.
## i Labels for these values will be taken from '..1$m15'.
## x Values: 21, 22, 23, 24, 25, 26, 30, 31, ..., 33, and 36

## Warning: '..1$v150' and '..5$v150' have conflicting value labels.
## i Labels for these values will be taken from '..1$v150'.
## x Values: 2, 3, 4, 5, 6, 7, 8, and 15

## Warning: '..1$v130' and '..5$v130' have conflicting value labels.
## i Labels for these values will be taken from '..1$v130'.
## x Values: 2, 3, and 4

## Warning: '..1$v024' and '..5$v024' have conflicting value labels.
## i Labels for these values will be taken from '..1$v024'.
## x Values: 1, 2, 3, 4, 5, 6, 7, and 8

## Warning: '..1$v113' and '..5$v113' have conflicting value labels.
## i Labels for these values will be taken from '..1$v113'.
## x Values: 21

## Warning: '..1$v131' and '..6$v131' have conflicting value labels.
## i Labels for these values will be taken from '..1$v131'.
## x Values: 1, 2, 3, 4, 5, 6, 7, 8, ..., 16, and 996

## Warning: '..1$v717' and '..6$v717' have conflicting value labels.
## i Labels for these values will be taken from '..1$v717'.
## x Values: 0

## Warning: '..1$m18' and '..6$m18' have conflicting value labels.
## i Labels for these values will be taken from '..1$m18'.
## x Values: 1, 2, 3, and 4

## Warning: '..1$m15' and '..6$m15' have conflicting value labels.
## i Labels for these values will be taken from '..1$m15'.
## x Values: 21, 22, 23, 26, 30, 31, and 36

```

Warning: ‘..1\$v130’ and ‘..6\$v130’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v130’.
x Values: 1, 2, 3, and 4

Warning: ‘..1\$v024’ and ‘..6\$v024’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v024’.
x Values: 1, 2, 3, 4, and 5

Warning: ‘..1\$v113’ and ‘..6\$v113’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v113’.
x Values: 21

Warning: ‘..1\$v131’ and ‘..7\$v131’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v131’.
x Values: 1, 2, 3, 4, 5, 6, 7, 8, ..., 16, and 23

Warning: ‘..1\$v717’ and ‘..7\$v717’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v717’.
x Values: 96

Warning: ‘..1\$m15’ and ‘..7\$m15’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$m15’.
x Values: 21, 22, 23, 24, 25, 26, 30, 31, ..., 34, and 36

Warning: ‘..1\$v130’ and ‘..7\$v130’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v130’.
x Values: 4, 5, 6, and 8

Warning: ‘..1\$v024’ and ‘..7\$v024’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v024’.
x Values: 1, 2, 3, 4, 5, 6, 7, 8, and 9

Warning: ‘..1\$v113’ and ‘..7\$v113’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v113’.
x Values: 21 and 72

Warning: ‘..1\$v717’ and ‘..8\$v717’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v717’.
x Values: 96

Warning: ‘..1\$m15’ and ‘..8\$m15’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$m15’.
x Values: 21, 22, 23, 26, 30, 31, and 36

Warning: ‘..1\$v024’ and ‘..8\$v024’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v024’.
x Values: 1, 2, 3, 4, 5, 6, 7, 8, ..., 13, and 14

Warning: ‘..1\$v113’ and ‘..8\$v113’ have conflicting value labels.
i Labels for these values will be taken from ‘..1\$v113’.
x Values: 21

```

## Warning: '..1$v131' and '..9$v131' have conflicting value labels.
## i Labels for these values will be taken from '..1$v131'.
## x Values: 1, 2, 3, 4, 5, 6, 7, 8, ..., 10, and 96

## Warning: '..1$v717' and '..9$v717' have conflicting value labels.
## i Labels for these values will be taken from '..1$v717'.
## x Values: 10

## Warning: '..1$m15' and '..9$m15' have conflicting value labels.
## i Labels for these values will be taken from '..1$m15'.
## x Values: 21, 22, 23, 26, 30, 31, and 36

## Warning: '..1$v150' and '..9$v150' have conflicting value labels.
## i Labels for these values will be taken from '..1$v150'.
## x Values: 13, 14, and 15

## Warning: '..1$v130' and '..9$v130' have conflicting value labels.
## i Labels for these values will be taken from '..1$v130'.
## x Values: 1, 2, 3, and 4

## Warning: '..1$v024' and '..9$v024' have conflicting value labels.
## i Labels for these values will be taken from '..1$v024'.
## x Values: 1, 2, 3, 4, 5, and 6

## Warning: '..1$v113' and '..9$v113' have conflicting value labels.
## i Labels for these values will be taken from '..1$v113'.
## x Values: 21 and 92

## Warning: '..1$v157' and '..10$v157' have conflicting value labels.
## i Labels for these values will be taken from '..1$v157'.
## x Values: 0, 1, 2, and 3

## Warning: '..1$v158' and '..10$v158' have conflicting value labels.
## i Labels for these values will be taken from '..1$v158'.
## x Values: 0, 1, 2, and 3

## Warning: '..1$v159' and '..10$v159' have conflicting value labels.
## i Labels for these values will be taken from '..1$v159'.
## x Values: 0, 1, 2, and 3

## Warning: '..1$v106' and '..10$v106' have conflicting value labels.
## i Labels for these values will be taken from '..1$v106'.
## x Values: 0, 1, 2, and 3

## Warning: '..1$v743a' and '..10$v743a' have conflicting value labels.
## i Labels for these values will be taken from '..1$v743a'.
## x Values: 1, 2, 3, 4, 5, and 6

## Warning: '..1$v743b' and '..10$v743b' have conflicting value labels.
## i Labels for these values will be taken from '..1$v743b'.
## x Values: 1, 2, 3, 4, 5, and 6

```

```

## Warning: '..1$v743d' and '..10$v743d' have conflicting value labels.
## i Labels for these values will be taken from '..1$v743d'.
## x Values: 1, 2, 3, 4, 5, and 6

## Warning: '..1$v744a' and '..10$v744a' have conflicting value labels.
## i Labels for these values will be taken from '..1$v744a'.
## x Values: 0, 1, and 8

## Warning: '..1$v744b' and '..10$v744b' have conflicting value labels.
## i Labels for these values will be taken from '..1$v744b'.
## x Values: 0, 1, and 8

## Warning: '..1$v744c' and '..10$v744c' have conflicting value labels.
## i Labels for these values will be taken from '..1$v744c'.
## x Values: 0, 1, and 8

## Warning: '..1$v744d' and '..10$v744d' have conflicting value labels.
## i Labels for these values will be taken from '..1$v744d'.
## x Values: 0, 1, and 8

## Warning: '..1$v744e' and '..10$v744e' have conflicting value labels.
## i Labels for these values will be taken from '..1$v744e'.
## x Values: 0, 1, and 8

## Warning: '..1$v717' and '..10$v717' have conflicting value labels.
## i Labels for these values will be taken from '..1$v717'.
## x Values: 0, 1, 2, 3, 4, 5, 6, 7, ..., 9, and 98

## Warning: '..1$m18' and '..10$m18' have conflicting value labels.
## i Labels for these values will be taken from '..1$m18'.
## x Values: 1, 2, 3, 4, 5, and 8

## Warning: '..1$m19' and '..10$m19' have conflicting value labels.
## i Labels for these values will be taken from '..1$m19'.
## x Values: 9996 and 9998

## Warning: '..1$b4' and '..10$b4' have conflicting value labels.
## i Labels for these values will be taken from '..1$b4'.
## x Values: 1 and 2

## Warning: '..1$m15' and '..10$m15' have conflicting value labels.
## i Labels for these values will be taken from '..1$m15'.
## x Values: 10, 11, 12, 20, 21, 22, 23, 24, ..., 36, and 96

## Warning: '..1$v150' and '..10$v150' have conflicting value labels.
## i Labels for these values will be taken from '..1$v150'.
## x Values: 1, 2, 3, 4, 5, 6, 7, 8, ..., 12, and 98

## Warning: '..1$v151' and '..10$v151' have conflicting value labels.
## i Labels for these values will be taken from '..1$v151'.
## x Values: 1 and 2

```

```

## Warning: '..1$v190' and '..10$v190' have conflicting value labels.
## i Labels for these values will be taken from '..1$v190'.
## x Values: 1, 2, 3, 4, and 5

## Warning: '..1$v025' and '..10$v025' have conflicting value labels.
## i Labels for these values will be taken from '..1$v025'.
## x Values: 1 and 2

## Warning: '..1$v130' and '..10$v130' have conflicting value labels.
## i Labels for these values will be taken from '..1$v130'.
## x Values: 96

## Warning: '..1$v445' and '..10$v445' have conflicting value labels.
## i Labels for these values will be taken from '..1$v445'.
## x Values: 9998

## Warning: '..1$b5' and '..10$b5' have conflicting value labels.
## i Labels for these values will be taken from '..1$b5'.
## x Values: 0 and 1

## Warning: '..1$v701' and '..10$v701' have conflicting value labels.
## i Labels for these values will be taken from '..1$v701'.
## x Values: 0, 1, 2, 3, and 8

## Warning: '..1$v024' and '..10$v024' have conflicting value labels.
## i Labels for these values will be taken from '..1$v024'.
## x Values: 1, 2, 3, 4, 5, 6, 7, and 8

## Warning: '..1$v367' and '..10$v367' have conflicting value labels.
## i Labels for these values will be taken from '..1$v367'.
## x Values: 1, 2, and 3

## Warning: '..1$v426' and '..10$v426' have conflicting value labels.
## i Labels for these values will be taken from '..1$v426'.
## x Values: 0, 100, 101, 199, 201, and 299

## Warning: '..1$v113' and '..10$v113' have conflicting value labels.
## i Labels for these values will be taken from '..1$v113'.
## x Values: 10, 11, 12, 13, 20, 21, 30, 31, ..., 96, and 97

## Warning: '..1$v115' and '..10$v115' have conflicting value labels.
## i Labels for these values will be taken from '..1$v115'.
## x Values: 996, 997, and 998

## Warning: '..1$v116' and '..10$v116' have conflicting value labels.
## i Labels for these values will be taken from '..1$v116'.
## x Values: 10, 11, 12, 13, 14, 15, 20, 21, ..., 96, and 97

## Warning: '..1$m14' and '..10$m14' have conflicting value labels.
## i Labels for these values will be taken from '..1$m14'.
## x Values: 0 and 98

```



```

## Warning: '..1$m70' and '..10$m70' have conflicting value labels.
## i Labels for these values will be taken from '..1$m70'.
## x Values: 0, 1, and 8

## Warning: '..1$v313' and '..10$v313' have conflicting value labels.
## i Labels for these values will be taken from '..1$v313'.
## x Values: 0, 1, 2, and 3

## Warning: '..1$v131' and '..11$v131' have conflicting value labels.
## i Labels for these values will be taken from '..1$v131'.
## x Values: 11, 12, 13, 14, 15, 16, 17, 18, and 96

## Warning: '..1$v717' and '..11$v717' have conflicting value labels.
## i Labels for these values will be taken from '..1$v717'.
## x Values: 96

## Warning: '..1$m15' and '..11$m15' have conflicting value labels.
## i Labels for these values will be taken from '..1$m15'.
## x Values: 21, 22, 23, 26, 30, 31, and 36

## Warning: '..1$v150' and '..11$v150' have conflicting value labels.
## i Labels for these values will be taken from '..1$v150'.
## x Values: 13, 14, and 15

## Warning: '..1$v130' and '..11$v130' have conflicting value labels.
## i Labels for these values will be taken from '..1$v130'.
## x Values: 1, 2, 3, 4, and 5

## Warning: '..1$v024' and '..11$v024' have conflicting value labels.
## i Labels for these values will be taken from '..1$v024'.
## x Values: 1, 2, 3, 4, and 5

## Warning: '..1$v113' and '..11$v113' have conflicting value labels.
## i Labels for these values will be taken from '..1$v113'.
## x Values: 21, 40, and 72

## Warning: '..1$v131' and '..12$v131' have conflicting value labels.
## i Labels for these values will be taken from '..1$v131'.
## x Values: 11, 12, 13, 14, 15, 95, and 96

## Warning: '..1$v717' and '..12$v717' have conflicting value labels.
## i Labels for these values will be taken from '..1$v717'.
## x Values: 10

## Warning: '..1$m15' and '..12$m15' have conflicting value labels.
## i Labels for these values will be taken from '..1$m15'.
## x Values: 21, 22, 23, 24, 25, 26, 30, 31, 32, and 36

## Warning: '..1$v024' and '..12$v024' have conflicting value labels.
## i Labels for these values will be taken from '..1$v024'.
## x Values: 1, 2, 3, 4, 5, and 6

```

```
## Warning: ‘..1$v113’ and ‘..12$v113’ have conflicting value labels.
## i Labels for these values will be taken from ‘..1$v113’.
## x Values: 13, 21, 40, and 72
```

```
save(dhs_child_west_africa, file = "dhs_child_west_africa.rda")
```

```
freq(dhs_child_west_africa$m18)
```

```
## Frequencies
## dhs_child_west_africa$m18
## Label: size of child at birth
## Type: Numeric
##
##      Freq  % Valid  % Valid Cum.  % Total  % Total Cum.
## -----
##      1  14839   11.095     11.095   10.339    10.339
##      2  27031   20.210     31.305   18.834    29.173
##      3  67002   50.095     81.400   46.684    75.857
##      4  14148   10.578     91.978    9.858    85.715
##      5   7973    5.961     97.939    5.555    91.270
##      8   2722    2.035     99.974    1.897    93.167
##      9     35    0.026    100.000    0.024    93.191
##     <NA>   9772             6.809    100.000
##     Total 143522  100.000    100.000  100.000    100.000
```

Noms des variables : - v367 : enfant était voulu (1: voulu à l'époque, 2: voulu pour plus tard, 3: ne plus vouloir du tout) - v426 : quand l'enfant a été mis au sein? - v113 : Source d'eau de boisson - v115 : temps jusqu'à la source d'eau de boisson - v116: type de toilette - v445 : indice de masse corporel - m14: nombre de visite prénatale durant la grossesse - m70: visites postnatales dans les 2 mois après l'accouchement (oui/non) - v313: Utilisation de contraceptive (à coder oui/non)

Création de nos différentes variables et leur labelisation

```
data <- dhs_child_west_africa
```

```
freq(data$b5)
```

```
## Frequencies
## data$b5
## Label: child is alive
## Type: Numeric
##
##      Freq  % Valid  % Valid Cum.  % Total  % Total Cum.
## -----
##      0  10261    7.15      7.15     7.15     7.15
##      1 133261   92.85    100.00   92.85    100.00
##     <NA>     0      0.00     0.00     0.00    100.00
##     Total 143522  100.00    100.00  100.00    100.00
```

```
data <- data %>%
  mutate(dead = if_else(b5 == 0, 1, 0)) %>%
  mutate(dead = factor(dead, levels=c(0, 1), labels = c("alive", "dead")),
         ponderation = v005/1000000)
```

```
freq(data$dead)
```

```
## Frequencies
```

```
## data$dead
```

```
## Type: Factor
```

```
##
```

| | Freq | % Valid | % Valid Cum. | % Total | % Total Cum. |
|-------|--------|---------|--------------|---------|--------------|
| alive | 133261 | 92.85 | 92.85 | 92.85 | 92.85 |
| dead | 10261 | 7.15 | 100.00 | 7.15 | 100.00 |
| <NA> | 0 | | | 0.00 | 100.00 |
| Total | 143522 | 100.00 | 100.00 | 100.00 | 100.00 |

- Poids qualitatif

```
freq(data$m18)
```

```
## Frequencies
```

```
## data$m18
```

```
## Label: size of child at birth
```

```
## Type: Numeric
```

```
##
```

| | Freq | % Valid | % Valid Cum. | % Total | % Total Cum. |
|-------|--------|---------|--------------|---------|--------------|
| 1 | 14839 | 11.095 | 11.095 | 10.339 | 10.339 |
| 2 | 27031 | 20.210 | 31.305 | 18.834 | 29.173 |
| 3 | 67002 | 50.095 | 81.400 | 46.684 | 75.857 |
| 4 | 14148 | 10.578 | 91.978 | 9.858 | 85.715 |
| 5 | 7973 | 5.961 | 97.939 | 5.555 | 91.270 |
| 8 | 2722 | 2.035 | 99.974 | 1.897 | 93.167 |
| 9 | 35 | 0.026 | 100.000 | 0.024 | 93.191 |
| <NA> | 9772 | | | 6.809 | 100.000 |
| Total | 143522 | 100.000 | 100.000 | 100.000 | 100.000 |

```
freq(data$midx)
```

```
## Frequencies
```

```
## data$midx
```

```
## Label: index to birth history
```

```
## Type: Numeric
```

```
##
```

| | Freq | % Valid | % Valid Cum. | % Total | % Total Cum. |
|---|-------|---------|--------------|---------|--------------|
| 1 | 92561 | 69.1879 | 69.1879 | 64.4926 | 64.4926 |
| 2 | 35999 | 26.9087 | 96.0966 | 25.0826 | 89.5751 |

```
##           3      4876      3.6447      99.7414      3.3974      92.9725
##           4       312      0.2332      99.9746      0.2174      93.1899
##           5        31      0.0232      99.9978      0.0216      93.2115
##           6         3      0.0022     100.0000      0.0021      93.2136
##      <NA>     9740      100.0000      100.0000      6.7864     100.0000
##      Total  143522     100.0000     100.0000     100.0000     100.0000
```

```
data <- data %>%
  mutate(poids_quali = factor(case_when(
    m18 == 1 ~ "Very large",
    m18 == 2 ~ "Larger than average",
    m18 == 3 ~ "Average",
    m18 == 4 ~ "Smaller than average",
    m18 == 5 ~ "Very small",
    m18 == 8 | m18 == 9 ~ NA_character_,
    is.na(m18) ~ "à exclure"
  )))

ctable(data$poids_quali, factor(data$m18), "no")
```

```
## Cross-Tabulation
## poids_quali * factor(data$m18)
##
## -----
##           factor(data$m18)      1      2      3      4      5      8      9      <NA>
##           poids_quali
##           à exclure              0      0      0      0      0      0      0      9772
##           Average              0      0      67002      0      0      0      0      0
##           Larger than average    0      27031      0      0      0      0      0      0
##           Smaller than average    0      0      0      14148      0      0      0      0
##           Very large            14839      0      0      0      0      0      0      0
##           Very small              0      0      0      0      7973      0      0      0
##           <NA>                   0      0      0      0      0      2722      35      0
##           Total                14839      27031      67002      14148      7973      2722      35      9772
## -----
```

education de la femme (v106):

```
freq(data$v106)
```

```
## Frequencies
## data$v106
## Label: highest educational level
## Type: Numeric
##
##           Freq   % Valid   % Valid Cum.   % Total   % Total Cum.
## -----
##           0   84043   58.558       58.558   58.558       58.558
##           1   26867   18.720       77.277   18.720       77.277
##           2   28270   19.697       96.975   19.697       96.975
##           3    4321    3.011       99.985    3.011       99.985
##           9     21    0.015      100.000    0.015      100.000
##          <NA>     0      0.000      100.000    0.000      100.000
##          Total  143522  100.000      100.000  100.000      100.000
```

```
data <- data %>% mutate(educ = factor(v106, levels = c(0,1,2,3), labels = c("Sans instruction","Primair
freq(data$educ)
```

```
## Frequencies
## data$educ
## Type: Factor
##
```

| | Freq | % Valid | % Valid Cum. | % Total | % Total Cum. |
|------------------|--------|---------|--------------|---------|--------------|
| Sans instruction | 84043 | 58.566 | 58.566 | 58.558 | 58.558 |
| Primaire | 26867 | 18.723 | 77.289 | 18.720 | 77.277 |
| Secondaire | 28270 | 19.700 | 96.989 | 19.697 | 96.975 |
| Supérieur | 4321 | 3.011 | 100.000 | 3.011 | 99.985 |
| <NA> | 21 | | | 0.015 | 100.000 |
| Total | 143522 | 100.000 | 100.000 | 100.000 | 100.000 |

statut d'emploi (v717) [recoder comme suit : 0:Entrepreneures agricoles, 1:Travailleurs qualifiés ou non qualifiés

2:Sans emploi

```
data <- data %>% mutate(activite = case_when(v717 == 4 ~ 0,
      v717 == 1 | v717 == 2 | v717 == 3
      | v717 == 7 | v717 == 8 | v717 == 9 ~ 1,
      v717 == 0 ~ 2),
  activite=factor(activite, levels=c(0:2),labels=c("Entrepreneures agricoles","Tra
freq(data$activite)
```

```
## Frequencies
## data$activite
## Type: Factor
##
```

| | Freq | % Valid | % Valid Cum. | % Total | % Total |
|--|--------|---------|--------------|---------|---------|
| Entrepreneures agricoles | 25485 | 20.86 | 20.86 | 17.76 | |
| Travailleuses qualifiées ou non qualifiées | 54883 | 44.92 | 65.78 | 38.24 | |
| Sans emploi | 41802 | 34.22 | 100.00 | 29.13 | |
| <NA> | 21352 | | | 14.88 | |
| Total | 143522 | 100.00 | 100.00 | 100.00 | |

attitude face à la violence (v744a,v744b,v744c,v744d,v744e) - justifié de battre si la femme sort sans averti son mari (V744a) : 0 : Non 1 : Oui 8 : missing - justifié de battre si la femme si elle néglige les enfants (v744b) : 0 : Non 1 : Oui 8 : missing - Justifié de battre si la femme se dispute avec son mari(v744c) : 0 : Non 1 : Oui 8 : missing - Justifié de battre si la femme refuse le sexe à son mari(v744d) : 0 : Non 1 : Oui 8 : missing - Justifié de battre si la femme brule la nourriture (v744e) : 0 : Non 1 : Oui 8 : missing

```
data$v744a[data$v744a == 8] <- NA
data$v744b[data$v744b == 8] <- NA
data$v744c[data$v744c == 8] <- NA
```

```

data$v744d[data$v744d == 8] <- NA
data$v744e[data$v744e == 8] <- NA

data <- data %>% mutate(attitude_violence = v744a+v744b+v744c+v744d+v744e,
                        attitude_violence = case_when(attitude_violence==0~1,
                                                        attitude_violence %in% c(1:5)~2),
                        attitude_violence=factor(attitude_violence, levels = c(1,2),labels=c("Non favorable", "Favorable")))

data %>% filter(is.na(attitude_violence)) %>% select(v744a,v744b,v744c,v744d,v744e,attitude_violence)

```

```

## # A tibble: 2,774 x 6
##   v744a    v744b    v744c    v744d    v744e    attitude_violence
##   <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl+lbl> <dbl+lbl> <fct>
## 1 NA      NA      1 [yes]   1 [yes]   0 [no]   <NA>
## 2 NA      NA      NA      NA      NA      <NA>
## 3 NA      NA      NA      NA      NA      <NA>
## 4 NA      NA      1 [yes]   0 [no]   0 [no]   <NA>
## 5 NA      NA      1 [yes]   0 [no]   0 [no]   <NA>
## 6 0 [no]   NA      1 [yes]   1 [yes]   0 [no]   <NA>
## 7 1 [yes]   1 [yes]   NA      1 [yes]   1 [yes]   <NA>
## 8 0 [no]   NA      0 [no]   0 [no]   0 [no]   <NA>
## 9 1 [yes]   1 [yes]   1 [yes]   NA      1 [yes]   <NA>
## 10 1 [yes]  1 [yes]   1 [yes]   NA      1 [yes]   <NA>
## # i 2,764 more rows

```

```
freq(data$attitude_violence)
```

```

## Frequencies
## data$attitude_violence
## Type: Factor
##
##           Freq  % Valid  % Valid Cum.  % Total  % Total Cum.
## -----
##   Non favorable  76909    54.64      54.64    53.59    53.59
##   Favorable     63839    45.36     100.00    44.48    98.07
##   <NA>          2774      100.00    100.00     1.93   100.00
##   Total        143522

```

pouvoir decisionnel de la femme au sein du ménage (v743a,v743b,v743d) - Prise de décision concernant les soins de santé (v743a) : 0 : femme seule 1 : femme et mari/partenaire 2 : mari/partenaire seul 3: [5,6] Autres personnes NA: missing - Prise de décision concernant les achats du ménages (v743b) : 0 : femme seule 1 : femme et mari/partenaire 2 : mari/partenaire seul 3 : [5,6] Autres personnes NA: missing

- Prise de décision concernant la visite en famille (v743d) : 0 : femme seule 1 : femme et mari/partenaire 2 : mari/partenaire seul 3 : Autre personnes NA: missing

```
freq(data$v743d)
```

```
## Frequencies
```

```
## data$v743d
## Label: person who usually decides on: visits to family or relatives
## Type: Numeric
##
##          Freq   % Valid   % Valid Cum.   % Total   % Total Cum.
## -----
##          1  17867   13.4390     13.4390   12.4490    12.4490
##          2  51033   38.3854     51.8244   35.5576    48.0066
##          4  62941   47.3422     99.1666   43.8546    91.8612
##          5    829    0.6235     99.7901    0.5776    92.4388
##          6    276    0.2076     99.9977    0.1923    92.6311
##          9     3     0.0023    100.0000    0.0021    92.6332
##         <NA> 10573   100.0000    100.0000    7.3668   100.0000
##        Total 143522  100.0000    100.0000  100.0000  100.0000
```

```
data <- data %>%
  mutate(decision_sante = case_when(
    v743a == 1 ~ 0,
    v743a == 2 ~ 1,
    v743a == 4 ~ 2,
    v743a == 5 | v743a == 6 ~ 3),
  decision_achat = case_when(
    v743b == 1 ~ 0,
    v743b == 2 ~ 1,
    v743b == 4 ~ 2, v743b == 5 | v743b == 6 ~ 3),
  decision_visite=case_when(
    v743d==1~0,
    v743d==2~1,
    v743d==4~2,
    v743d==5 | v743d==6 ~3),
  pouvoir_decision=decision_sante+decision_achat+decision_visite,
  pouvoir_decision=case_when(
    pouvoir_decision<2~1,
    pouvoir_decision==2 |pouvoir_decision==3~2,
    pouvoir_decision >=4~3),
  pouvoir_decision=factor(pouvoir_decision,levels=c(1:3),labels=c("Elévé", "Moyen", "Faible")))

freq(data$pouvoir_decision)
```

```
## Frequencies
## data$pouvoir_decision
## Type: Factor
##
##          Freq   % Valid   % Valid Cum.   % Total   % Total Cum.
## -----
##        Elévé   6516     4.90         4.90     4.54     4.54
##        Moyen  38374    28.87        33.77    26.74    31.28
##        Faible 88050    66.23       100.00    61.35    92.63
##         <NA>  10582   100.00       100.00     7.37   100.00
##        Total 143522  100.00       100.00   100.00  100.00
```

- Religion de la mère (v130)
- Age de la mère (v012)

- Sexe de l'enfant (b4)
- Poids de l'enfant à la naissance (m19)
- Rang de l'enfant à la naissance (bord)
- Intervalle entre l'enfant et la naissance précédente (b11)
- Lieu d'accouchement (m15)
- Niveau d'instruction du conjoint (v701)

```
data <- data %>% mutate(religion=case_when(v130==1 | v130==2 | v130==3~1,
                                           v130==4~2,
                                           v130==5 | v130==7 | v130==96~3
                                           ),
  religion=factor(religion, levels = c(1:3), labels = c("Chrétien", "Musulman", "Autre"),
  age_mere=case_when(v012<20~1,
                    v012 >=20 & v012<30~2,
                    v012 >=30 & v012<40~3,
                    v012 >=40~4),
  age_mere=factor(age_mere, levels = c(1:4), labels = c("Moins de 20 ans", "Entre 20 et 30 ans", "Entre 30 et 40 ans", "40 ans et plus"),
  sex_enfant=factor(if_else(b4==1,1,2), levels = c(1,2), labels = c("Masculin", "Féminin")),
  poids_nais = case_when(m19<2500~1,
                        m19 >=2500 & m19<4000~2,
                        m19 >=4000 & m19<7500~3,
                        m19==9996 | m19==9998~ NA_real_),
  poids_nais=factor(poids_nais, levels = c(1:3), labels = c("Faible", "Normal", "Élevée")),
  rang_naiss=case_when(bord==1~1,
                      bord==2 | bord==3~2,
                      bord >=4~3),
  rang_naiss=factor(rang_naiss, levels = c(1:3), labels = c("Premier né", "Rang 2 ou 3", "Rang 4 ou plus")),
  interval_precedent=case_when(b11<24~1,
                              b11 >=24~2,
                              is.na(b11)~3),
  interval_precedent=factor(interval_precedent, levels = c(1:3), labels = c("Moins de 24 mois", "24 mois ou plus", "Inconnu")),
  lieu_accouch=factor(if_else(m15==10 | m15==11 | m15==12,1,2), levels = c(1,2), labels = c("À domicile", "Hôpital")),
  ins_conj=factor(v701, levels=c(0:3), labels=c("Sans instruction", "Primaire", "Secondaire", "Supérieur")),
  naissance_voulu=factor(v367, levels=c(1:3), labels=c("avait voulu", "voulu pour plus tard", "ne plus vouloir du tout")),
  allaiter_heure=case_when(v426==0 | v426==100~1,
                          v426==101 | v426==102 | v426==103 | v426==104~2,
                          v426==105 | v426==106 | v426==107~3,
                          v426==108 | v426==109 | v426==110~4,
                          v426==111 | v426==112 | v426==113~5,
                          v426==114 | v426==115 | v426==116~6,
                          v426==117 | v426==118 | v426==119~7,
                          v426==120 | v426==121 | v426==122~8,
                          v426==123 | v426==124 | v426==125~9,
                          v426==126 | v426==127 | v426==128~10,
                          v426==129 | v426==130 | v426==131~11,
                          v426==132 | v426==133 | v426==134~12,
                          v426==135 | v426==136 | v426==137~13,
                          v426==138 | v426==139 | v426==140~14,
                          v426==141 | v426==142 | v426==143~15,
                          v426==144 | v426==145 | v426==146~16,
                          v426==147 | v426==148 | v426==149~17,
                          v426==150 | v426==151 | v426==152~18,
                          v426==153 | v426==154 | v426==155~19,
                          v426==156 | v426==157 | v426==158~20,
                          v426==159 | v426==160 | v426==161~21,
                          v426==162 | v426==163 | v426==164~22,
                          v426==165 | v426==166 | v426==167~23,
                          v426==168 | v426==169 | v426==170~24,
                          v426==171 | v426==172 | v426==173~25,
                          v426==174 | v426==175 | v426==176~26,
                          v426==177 | v426==178 | v426==179~27,
                          v426==180 | v426==181 | v426==182~28,
                          v426==183 | v426==184 | v426==185~29,
                          v426==186 | v426==187 | v426==188~30,
                          v426==189 | v426==190 | v426==191~31,
                          v426==192 | v426==193 | v426==194~32,
                          v426==195 | v426==196 | v426==197~33,
                          v426==198 | v426==199 | v426==200~34,
                          v426==201 | v426==202 | v426==203~35,
                          v426==204 | v426==205 | v426==206~36,
                          v426==207 | v426==208 | v426==209~37,
                          v426==210 | v426==211 | v426==212~38,
                          v426==213 | v426==214 | v426==215~39,
                          v426==216 | v426==217 | v426==218~40,
                          v426==219 | v426==220 | v426==221~41,
                          v426==222 | v426==223 | v426==224~42,
                          v426==225 | v426==226 | v426==227~43,
                          v426==228 | v426==229 | v426==230~44,
                          v426==231 | v426==232 | v426==233~45,
                          v426==234 | v426==235 | v426==236~46,
                          v426==237 | v426==238 | v426==239~47,
                          v426==240 | v426==241 | v426==242~48,
                          v426==243 | v426==244 | v426==245~49,
                          v426==246 | v426==247 | v426==248~50,
                          v426==249 | v426==250 | v426==251~51,
                          v426==252 | v426==253 | v426==254~52,
                          v426==255 | v426==256 | v426==257~53,
                          v426==258 | v426==259 | v426==260~54,
                          v426==261 | v426==262 | v426==263~55,
                          v426==264 | v426==265 | v426==266~56,
                          v426==267 | v426==268 | v426==269~57,
                          v426==270 | v426==271 | v426==272~58,
                          v426==273 | v426==274 | v426==275~59,
                          v426==276 | v426==277 | v426==278~60,
                          v426==279 | v426==280 | v426==281~61,
                          v426==282 | v426==283 | v426==284~62,
                          v426==285 | v426==286 | v426==287~63,
                          v426==288 | v426==289 | v426==290~64,
                          v426==291 | v426==292 | v426==293~65,
                          v426==294 | v426==295 | v426==296~66,
                          v426==297 | v426==298 | v426==299~67,
                          v426==300 | v426==301 | v426==302~68,
                          v426==303 | v426==304 | v426==305~69,
                          v426==306 | v426==307 | v426==308~70,
                          v426==309 | v426==310 | v426==311~71,
                          v426==312 | v426==313 | v426==314~72,
                          v426==315 | v426==316 | v426==317~73,
                          v426==318 | v426==319 | v426==320~74,
                          v426==321 | v426==322 | v426==323~75,
                          v426==324 | v426==325 | v426==326~76,
                          v426==327 | v426==328 | v426==329~77,
                          v426==330 | v426==331 | v426==332~78,
                          v426==333 | v426==334 | v426==335~79,
                          v426==336 | v426==337 | v426==338~80,
                          v426==339 | v426==340 | v426==341~81,
                          v426==342 | v426==343 | v426==344~82,
                          v426==345 | v426==346 | v426==347~83,
                          v426==348 | v426==349 | v426==350~84,
                          v426==351 | v426==352 | v426==353~85,
                          v426==354 | v426==355 | v426==356~86,
                          v426==357 | v426==358 | v426==359~87,
                          v426==360 | v426==361 | v426==362~88,
                          v426==363 | v426==364 | v426==365~89,
                          v426==366 | v426==367 | v426==368~90,
                          v426==369 | v426==370 | v426==371~91,
                          v426==372 | v426==373 | v426==374~92,
                          v426==375 | v426==376 | v426==377~93,
                          v426==378 | v426==379 | v426==380~94,
                          v426==381 | v426==382 | v426==383~95,
                          v426==384 | v426==385 | v426==386~96,
                          v426==387 | v426==388 | v426==389~97,
                          v426==390 | v426==391 | v426==392~98,
                          v426==393 | v426==394 | v426==395~99,
                          v426==396 | v426==397 | v426==398~100,
                          v426==399 | v426==400 | v426==401~101,
                          v426==402 | v426==403 | v426==404~102,
                          v426==405 | v426==406 | v426==407~103,
                          v426==408 | v426==409 | v426==410~104,
                          v426==411 | v426==412 | v426==413~105,
                          v426==414 | v426==415 | v426==416~106,
                          v426==417 | v426==418 | v426==419~107,
                          v426==420 | v426==421 | v426==422~108,
                          v426==423 | v426==424 | v426==425~109,
                          v426==426 | v426==427 | v426==428~110,
                          v426==429 | v426==430 | v426==431~111,
                          v426==432 | v426==433 | v426==434~112,
                          v426==435 | v426==436 | v426==437~113,
                          v426==438 | v426==439 | v426==440~114,
                          v426==441 | v426==442 | v426==443~115,
                          v426==444 | v426==445 | v426==446~116,
                          v426==447 | v426==448 | v426==449~117,
                          v426==450 | v426==451 | v426==452~118,
                          v426==453 | v426==454 | v426==455~119,
                          v426==456 | v426==457 | v426==458~120,
                          v426==459 | v426==460 | v426==461~121,
                          v426==462 | v426==463 | v426==464~122,
                          v426==465 | v426==466 | v426==467~123,
                          v426==468 | v426==469 | v426==470~124,
                          v426==471 | v426==472 | v426==473~125,
                          v426==474 | v426==475 | v426==476~126,
                          v426==477 | v426==478 | v426==479~127,
                          v426==480 | v426==481 | v426==482~128,
                          v426==483 | v426==484 | v426==485~129,
                          v426==486 | v426==487 | v426==488~130,
                          v426==489 | v426==490 | v426==491~131,
                          v426==492 | v426==493 | v426==494~132,
                          v426==495 | v426==496 | v426==497~133,
                          v426==498 | v426==499 | v426==500~134,
                          v426==501 | v426==502 | v426==503~135,
                          v426==504 | v426==505 | v426==506~136,
                          v426==507 | v426==508 | v426==509~137,
                          v426==510 | v426==511 | v426==512~138,
                          v426==513 | v426==514 | v426==515~139,
                          v426==516 | v426==517 | v426==518~140,
                          v426==519 | v426==520 | v426==521~141,
                          v426==522 | v426==523 | v426==524~142,
                          v426==525 | v426==526 | v426==527~143,
                          v426==528 | v426==529 | v426==530~144,
                          v426==531 | v426==532 | v426==533~145,
                          v426==534 | v426==535 | v426==536~146,
                          v426==537 | v426==538 | v426==539~147,
                          v426==540 | v426==541 | v426==542~148,
                          v426==543 | v426==544 | v426==545~149,
                          v426==546 | v426==547 | v426==548~150,
                          v426==549 | v426==550 | v426==551~151,
                          v426==552 | v426==553 | v426==554~152,
                          v426==555 | v426==556 | v426==557~153,
                          v426==558 | v426==559 | v426==560~154,
                          v426==561 | v426==562 | v426==563~155,
                          v426==564 | v426==565 | v426==566~156,
                          v426==567 | v426==568 | v426==569~157,
                          v426==570 | v426==571 | v426==572~158,
                          v426==573 | v426==574 | v426==575~159,
                          v426==576 | v426==577 | v426==578~160,
                          v426==579 | v426==580 | v426==581~161,
                          v426==582 | v426==583 | v426==584~162,
                          v426==585 | v426==586 | v426==587~163,
                          v426==588 | v426==589 | v426==590~164,
                          v426==591 | v426==592 | v426==593~165,
                          v426==594 | v426==595 | v426==596~166,
                          v426==597 | v426==598 | v426==599~167,
                          v426==600 | v426==601 | v426==602~168,
                          v426==603 | v426==604 | v426==605~169,
                          v426==606 | v426==607 | v426==608~170,
                          v426==609 | v426==610 | v426==611~171,
                          v426==612 | v426==613 | v426==614~172,
                          v426==615 | v426==616 | v426==617~173,
                          v426==618 | v426==619 | v426==620~174,
                          v426==621 | v426==622 | v426==623~175,
                          v426==624 | v426==625 | v426==626~176,
                          v426==627 | v426==628 | v426==629~177,
                          v426==630 | v426==631 | v426==632~178,
                          v426==633 | v426==634 | v426==635~179,
                          v426==636 | v426==637 | v426==638~180,
                          v426==639 | v426==640 | v426==641~181,
                          v426==642 | v426==643 | v426==644~182,
                          v426==645 | v426==646 | v426==647~183,
                          v426==648 | v426==649 | v426==650~184,
                          v426==651 | v426==652 | v426==653~185,
                          v426==654 | v426==655 | v426==656~186,
                          v426==657 | v426==658 | v426==659~187,
                          v426==660 | v426==661 | v426==662~188,
                          v426==663 | v426==664 | v426==665~189,
                          v426==666 | v426==667 | v426==668~190,
                          v426==669 | v426==670 | v426==671~191,
                          v426==672 | v426==673 | v426==674~192,
                          v426==675 | v426==676 | v426==677~193,
                          v426==678 | v426==679 | v426==680~194,
                          v426==681 | v426==682 | v426==683~195,
                          v426==684 | v426==685 | v426==686~196,
                          v426==687 | v426==688 | v426==689~197,
                          v426==690 | v426==691 | v426==692~198,
                          v426==693 | v426==694 | v426==695~199,
                          v426==696 | v426==697 | v426==698~200,
                          v426==699 | v426==700 | v426==701~201,
                          v426==702 | v426==703 | v426==704~202,
                          v426==705 | v426==706 | v426==707~203,
                          v426==708 | v426==709 | v426==710~204,
                          v426==711 | v426==712 | v426==713~205,
                          v426==714 | v426==715 | v426==716~206,
                          v426==717 | v426==718 | v426==719~207,
                          v426==720 | v426==721 | v426==722~208,
                          v426==723 | v426==724 | v426==725~209,
                          v426==726 | v426==727 | v426==728~210,
                          v426==729 | v426==730 | v426==731~211,
                          v426==732 | v426==733 | v426==734~212,
                          v426==735 | v426==736 | v426==737~213,
                          v426==738 | v426==739 | v426==740~214,
                          v426==741 | v426==742 | v426==743~215,
                          v426==744 | v426==745 | v426==746~216,
                          v426==747 | v426==748 | v426==749~217,
                          v426==750 | v426==751 | v426==752~218,
                          v426==753 | v426==754 | v426==755~219,
                          v426==756 | v426==757 | v426==758~220,
                          v426==759 | v426==760 | v426==761~221,
                          v426==762 | v426==763 | v426==764~222,
                          v426==765 | v426==766 | v426==767~223,
                          v426==768 | v426==769 | v426==770~224,
                          v426==771 | v426==772 | v426==773~225,
                          v426==774 | v426==775 | v426==776~226,
                          v426==777 | v426==778 | v426==779~227,
                          v426==780 | v426==781 | v426==782~228,
                          v426==783 | v426==784 | v426==785~229,
                          v426==786 | v426==787 | v426==788~230,
                          v426==789 | v426==790 | v426==791~231,
                          v426==792 | v426==793 | v426==794~232,
                          v426==795 | v426==796 | v426==797~233,
                          v426==798 | v426==799 | v426==800~234,
                          v426==801 | v426==802 | v426==803~235,
                          v426==804 | v426==805 | v426==806~236,
                          v426==807 | v426==808 | v426==809~237,
                          v426==810 | v426==811 | v426==812~238,
                          v426==813 | v426==814 | v426==815~239,
                          v426==816 | v426==817 | v426==818~240,
                          v426==819 | v426==820 | v426==821~241,
                          v426==822 | v426==823 | v426==824~242,
                          v426==825 | v426==826 | v426==827~243,
                          v426==828 | v426==829 | v426==830~244,
                          v426==831 | v426==832 | v426==833~245,
                          v426==834 | v426==835 | v426==836~246,
                          v426==837 | v426==838 | v426==839~247,
                          v426==840 | v426==841 | v426==842~248,
                          v426==843 | v426==844 | v426==845~249,
                          v426==846 | v426==847 | v426==848~250,
                          v426==849 | v426==850 | v426==851~251,
                          v426==852 | v426==853 | v426==854~252,
                          v426==855 | v426==856 | v426==857~253,
                          v426==858 | v426==859 | v426==860~254,
                          v426==861 | v426==862 | v426==863~255,
                          v426==864 | v426==865 | v426==866~256,
                          v426==867 | v426==868 | v426==869~257,
                          v426==870 | v426==871 | v426==872~258,
                          v426==873 | v426==874 | v426==875~259,
                          v426==876 | v426==877 | v426==878~260,
                          v426==879 | v426==880 | v426==881~261,
                          v426==882 | v426==883 | v426==884~262,
                          v426==885 | v426==886 | v426==887~263,
                          v426==888 | v426==889 | v426==890~264,
                          v426==891 | v426==892 | v426==893~265,
                          v426==894 | v426==895 | v426==896~266,
                          v426==897 | v426==898 | v426==899~267,
                          v426==900 | v426==901 | v426==902~268,
                          v426==903 | v426==904 | v426==905~269,
                          v426==906 | v426==907 | v426==908~270,
                          v426==909 | v426==910 | v426==911~271,
                          v426==912 | v426==913 | v426==914~272,
                          v426==915 | v426==916 | v426==917~273,
                          v426==918 | v426==919 | v426==920~274,
                          v426==921 | v426==922 | v426==923~275,
                          v426==924 | v426==925 | v426==926~276,
                          v426==927 | v426==928 | v426==929~277,
                          v426==930 | v426==931 | v426==932~278,
                          v426==933 | v426==934 | v426==935~279,
                          v426==936 | v426==937 | v426==938~280,
                          v426==939 | v426==940 | v426==941~281,
                          v426==942 | v426==943 | v426==944~282,
                          v426==945 | v426==946 | v426==947~283,
                          v426==948 | v426==949 | v426==950~284,
                          v426==951 | v426==952 | v426==953~285,
                          v426==954 | v426==955 | v426==956~286,
                          v426==957 | v426==958 | v426==959~287,
                          v426==960 | v426==961 | v426==962~288,
                          v426==963 | v426==964 | v426==965~289,
                          v426==966 | v426==967 | v426==968~290,
                          v426==969 | v426==970 | v426==971~291,
                          v426==972 | v426==973 | v426==974~292,
                          v426==975 | v426==976 | v426==977~293,
                          v426==978 | v426==979 | v426==980~294,
                          v426==981 | v426==982 | v426==983~295,
                          v426==984 | v426==985 | v426==986~296,
                          v426==987 | v426==988 | v426==989~297,
                          v426==990 | v426==991 | v426==992~298,
                          v426==993 | v426==994 | v426==995~299,
                          v426==996 | v426==997 | v426==998~300,
                          v426==999 | v426==1000 | v426==1001~301,
                          v426==1002 | v426==1003 | v426==1004~302,
                          v426==1005 | v426==1006 | v426==1007~303,
                          v426==1008 | v426==1009 | v426==1010~304,
                          v426==1011 | v426==1012 | v426==1013~305,
                          v426==1014 | v426==1015 | v426==1016~306,
                          v426==1017 | v426==1018 | v426==1019~307,
                          v426==1020 | v426==1021 | v426==1022~308,
                          v426==1023 | v426==1024 | v426==1025~309,
                          v426==1026 | v426==1027 | v426==1028~310,
                          v426==1029 | v426==1030 | v426==1031~311,
                          v426==1032 | v426==1033 | v426==1034~312,
                          v426==1035 | v426==1036 | v426==1037~313,
                          v426==1038 | v426==1039 | v426==1040~314,
                          v426==1041 | v426==1042 | v426==1043~315,
                          v426==1044 | v426==1045 | v426==1046~316,
                          v426==1047 | v426==1048 | v426==1049~317,
                          v426==1050 | v426==1051 | v426==1052~318,
                          v426==1053 | v426==1054 | v426==1055~319,
                          v426==1056 | v426==1057 | v426==1058~320,
                          v426==1059 | v426==1060 | v426==1061~321,
                          v426==1062 | v426==1063 | v426==1064~322,
                          v426==1065 | v426==1066 | v426==1067~323,
                          v426==1068 | v426==1069 | v426==1070~324,
                          v426==1071 | v426==1072 | v426==1073~325,
                          v426==1074 | v426==1075 | v426==1076~326,
                          v426==1077 | v426==1078 | v426==1079~327,
                          v426==1080 | v426==1081 | v426==1082~328,
                          v426==1083 | v426==1084 | v426==1085~329,
                          v426==1086 | v426==1087 | v426==1088~330,
                          v426==1089 | v426==1090 | v426==1091~331,
                          v426==1092 | v426==1093 | v426==1094~332,
                          v426==1095 | v426==1096 | v426==1097~333,
                          v426==1098 | v426==1099 | v426==1100~334,
                          v426==1101 | v426==1102 | v426==1103~335,
                          v426==1104 | v426==1105 | v426==1106~336,
                          v426==1107 | v426==1108 | v426==1109~337,
                          v426==1110 | v426==1111 | v426==1112~338,
                          v426==1113 | v426==1114 | v426==1115~339,
                          v426==1116 | v426==1117 | v426==1118~340,
                          v426==1119 | v426==1120 | v426==1121~341,
                          v426==1122 | v426==1123 | v426==1124~342,
                          v426==1125 | v426==1126 | v426==1127~343,
                          v426==1128 | v426==1129 | v426==1130~344,
                          v426==1131 | v426==1132 | v426==1133~345,
                          v426==1134 | v426==1135 | v426==1136~346,
                          v426==1137 | v426==1138 |
```



```

    allaiter_heure=factor(allaiter_heure,levels =c(1,2),labels=c("Oui","Non")),
    source_eau=if_else(v113==10 |v113==11 |v113==12 |v113==13 |v113==14 |v113==41 |v113==42,
    source_eau=factor(source_eau,levels = c(1,2),labels=c("Ameliorée","Non ameliorée")),
    type_toilet=if_else(v116==10 |v116==11 |v116==12 |v116==13 |v116==14 |v116==15 |v116==16 |v116==17 |v116==18 |v116==19 |v116==20 |v116==21 |v116==22 |v116==23 |v116==24 |v116==25 |v116==26 |v116==27 |v116==28 |v116==29 |v116==30 |v116==31 |v116==32 |v116==33 |v116==34 |v116==35 |v116==36 |v116==37 |v116==38 |v116==39 |v116==40 |v116==41 |v116==42 |v116==43 |v116==44 |v116==45 |v116==46 |v116==47 |v116==48 |v116==49 |v116==50 |v116==51 |v116==52 |v116==53 |v116==54 |v116==55 |v116==56 |v116==57 |v116==58 |v116==59 |v116==60 |v116==61 |v116==62 |v116==63 |v116==64 |v116==65 |v116==66 |v116==67 |v116==68 |v116==69 |v116==70 |v116==71 |v116==72 |v116==73 |v116==74 |v116==75 |v116==76 |v116==77 |v116==78 |v116==79 |v116==80 |v116==81 |v116==82 |v116==83 |v116==84 |v116==85 |v116==86 |v116==87 |v116==88 |v116==89 |v116==90 |v116==91 |v116==92 |v116==93 |v116==94 |v116==95 |v116==96 |v116==97 |v116==98 |v116==99 |v116==100,
    type_toilet=factor(type_toilet,levels = c(1,2),labels=c("Ameliorée","Non ameliorée")),

    contraception=if_else(v313==0,1,2),
    contraception=factor(contraception,levels=c(1,2),labels=c("Non","Oui"))

```

- Degré d'exposition de la femme aux médias (à partir de v157,v158,v159)

```
freq(data$v159)
```

```

## Frequencies
## data$v159
## Label: frequency of watching television
## Type: Numeric
##
##          Freq  % Valid  % Valid Cum.  % Total  % Total Cum.
## -----
##          0  85707   59.724      59.724   59.717   59.717
##          1  22851   15.924      75.648   15.922   75.639
##          2  33727   23.502      99.151   23.500   99.138
##          3   1178    0.821      99.971    0.821   99.959
##          9    41     0.029     100.000    0.029   99.987
##         <NA>    18     0.013     100.000    0.013  100.000
##         Total 143522 100.000     100.000  100.000  100.000

```

```

data <- data %>% mutate(degmedia=v157+v158+v159,
                        degmedia=case_when(degmedia==0~0,
                                           degmedia==1 | degmedia==2 ~1,
                                           degmedia==3 | degmedia==4 ~2,
                                           degmedia==5 | degmedia==6 ~3),
                        degmedia=factor(degmedia, levels =c(0:3),labels =c("Nul","Faible","moyenne","Elevé"))

freq(data$degmedia)

```

```

## Frequencies
## data$degmedia
## Type: Factor
##
##          Freq  % Valid  % Valid Cum.  % Total  % Total Cum.
## -----
##          Nul  51796   36.17      36.17   36.09   36.09
##          Faible 54895   38.33      74.50   38.25   74.34
##          moyenne 31370   21.90      96.40   21.86   96.20
##          Elevé  5154    3.60     100.00    3.59   99.79
##          <NA>   307     0.21     100.00    0.21  100.00
##          Total 143522 100.00     100.00  100.00  100.00

```

Caractéristiques des ménages

Taille du ménage (v136) Sexe du chef de ménage (v151) Niveau de vie du ménage (v190)

```
data <- data %>% mutate(taille_menage=case_when(v136<=3~1,
                                                v136 >=4 & v136<=6~2,
                                                v136 >=7~3),
  taille_menage=factor(taille_menage,levels = c(1:3),labels = c("2-3","4-6","7 et plus"),
  sex_chef=factor(if_else(v151==1,1,2),levels = c(1,2), labels = c("Masculin","Féminin"),
  niveau_vie=case_when(v190==1 | v190==2~1,
                      v190==3~2,
                      v190==4 | v190==5~3),
  niveau_vie=factor(niveau_vie,levels=c(1:3),labels = c("Pauvre","Moyen","Riche"))
)

freq(data$niveau_vie)
```

```
## Frequencies
## data$niveau_vie
## Type: Factor
##
##          Freq  % Valid  % Valid Cum.  % Total  % Total Cum.
## -----
##      Pauvre  66260    46.17      46.17    46.17    46.17
##      Moyen  29967    20.88      67.05    20.88    67.05
##      Riche  47295    32.95     100.00    32.95   100.00
##      <NA>      0      0.00     100.00     0.00   100.00
##      Total 143522   100.00     100.00   100.00   100.00
```

Caractéristiques Communautaires

Milieu de résidence (v025)

```
data <- data %>% mutate(milieu_residence=factor(v025,levels = c(1,2),labels = c("Urbain","Rural")))

freq(data$milieu_residence)
```

```
## Frequencies
## data$milieu_residence
## Type: Factor
##
##          Freq  % Valid  % Valid Cum.  % Total  % Total Cum.
## -----
##      Urbain  47664    33.21      33.21    33.21    33.21
##      Rural  95858    66.79     100.00    66.79   100.00
##      <NA>      0      0.00     100.00     0.00   100.00
##      Total 143522   100.00     100.00   100.00   100.00
```

```
#save(data, file = "01-pretatements/code/dhs_child_west_africa.rda")

#save(data, file = "../02_Apprentissage_Supervise/01_Regression/dhs_child_west_africa.rda")
```

```
## Tri à plat des variables
```

```
table1(~ dead+educ+activite+attitude_violence+pouvoir_decision+religion+age_mere+degmedia+ins_conj+sex_
```

```
## Get nicer 'table1' LaTeX output by simply installing the 'kableExtra' package
```

| | Overall |
|--|----------------|
| | (N=143522) |
| dead | |
| alive | 133261 (92.9%) |
| dead.1 | 10261 (7.1%) |
| educ | |
| Sans instruction | 84043 (58.6%) |
| Primaire | 26867 (18.7%) |
| Secondaire | 28270 (19.7%) |
| Supérieur | 4321 (3.0%) |
| Missing | 21 (0.0%) |
| activite | |
| Entrepreneures agricoles | 25485 (17.8%) |
| Travailleuses qualifiées ou non qualifiées | 54883 (38.2%) |
| Sans emploi | 41802 (29.1%) |
| Missing | 21352 (14.9%) |
| attitude_violence | |
| Non favorable | 76909 (53.6%) |
| Favorable | 63839 (44.5%) |
| Missing | 2774 (1.9%) |
| pouvoir_decision | |
| Elévé | 6516 (4.5%) |
| Moyen | 38374 (26.7%) |
| Faible | 88050 (61.3%) |
| Missing | 10582 (7.4%) |
| religion | |
| Chrétien | 99512 (69.3%) |
| Musulman | 5780 (4.0%) |
| Animistes et autres | 2585 (1.8%) |
| Missing | 35645 (24.8%) |
| age_mere | |
| Moins de 20 ans | 8024 (5.6%) |
| Entre 20 et 29 ans | 68000 (47.4%) |
| Entre 30 ans et 39 ans | 53494 (37.3%) |
| 40 ans et plus | 14004 (9.8%) |
| degmedia | |
| Nul | 51796 (36.1%) |
| Faible | 54895 (38.2%) |
| moyenne | 31370 (21.9%) |
| Elevé | 5154 (3.6%) |
| Missing | 307 (0.2%) |
| ins_conj | |
| Sans instruction | 72908 (50.8%) |
| Primaire | 18152 (12.6%) |
| Secondaire | 27567 (19.2%) |
| Supérieur | 9125 (6.4%) |
| Missing | 15770 (11.0%) |
| sex_enfant | |
| Masculin | 72978 (50.8%) |
| Feminin | 70544 (49.2%) |
| poids_nais | |
| Faible | 6174 (4.3%) |
| Normal | 44922 (31.3%) |
| Elevé | 6482 (4.5%) |
| Missing | 85944 (59.9%) |
| size_of_child_at_birth | |

Manque deux autres variables

- rang de naissance de l'enfant
- grossesse gémellaire
- Age à la grossesse