Test\_2025

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# Liste des packages nécessaires  
packages <- c("readr", "haven", "summarytools", "janitor", "reshape2", "utils", "dplyr","tidyverse", "labelled", "cardx", "survey", "kableExtra","data.table", "gtsummary")  
  
# Vérification et installation  
invisible(lapply(packages, function(pkg) {  
 if (!requireNamespace(pkg, quietly = TRUE)) {  
 install.packages(pkg, quiet = TRUE)   
 }  
 if (!pkg %in% .packages()) {   
 suppressMessages(library(pkg, character.only = TRUE))  
 }  
}))

# Importation des bases de données

mother\_baseline <- haven::read\_dta("../data/food\_comp\_mother\_baseline.dta")  
mother\_endline <- haven::read\_dta("../data/food\_comp\_mother\_endline.dta")  
child\_baseline <- haven::read\_dta("../data/food\_comp\_child\_baseline.dta")  
child\_endline <- haven::read\_dta("../data/food\_comp\_child\_endline.dta")  
base\_menage <- haven::read\_dta("../data/base\_menage.dta")

# Structure des bases

utils::str(mother\_baseline)

## tibble [4,256 × 17] (S3: tbl\_df/tbl/data.frame)  
## $ regionid : num [1:4256] 2 2 2 2 2 2 2 2 2 2 ...  
## ..- attr(\*, "label")= chr "Region ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ communeid : num [1:4256] 25 25 25 25 25 25 25 25 25 25 ...  
## ..- attr(\*, "label")= chr "Commune ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ villageid : num [1:4256] 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 ...  
## ..- attr(\*, "label")= chr "Village ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ hhid : chr [1:4256] "4948484848535052" "4948484848535052" "4948484848535052" "4948484848535052" ...  
## ..- attr(\*, "label")= chr "Household ID"  
## ..- attr(\*, "format.stata")= chr "%45s"  
## $ round : dbl+lbl [1:4256] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Survey round : Baseline, Endline"  
## ..@ format.stata: chr "%10.0g"  
## ..@ labels : Named num [1:2] 1 2  
## .. ..- attr(\*, "names")= chr [1:2] "Baseline" "Endline"  
## $ s1\_q0 : dbl+lbl [1:4256] 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4, 1, 2,...  
## ..@ label : chr "eating occasion"  
## ..@ format.stata: chr "%27.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Breakfast" "Lunch" "Dinner" "Snacks"  
## $ s1\_q1 : dbl+lbl [1:4256] 1, 0, 1, 1, 1, 0, 0, 0, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Meal consumed? Y/N"  
## ..@ format.stata: chr "%9.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "No" "Yes"  
## $ s1\_q2 : dbl+lbl [1:4256] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Who consummed?"  
## ..@ format.stata: chr "%16.0g"  
## ..@ labels : Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "mother" "child" "mother and child"  
## $ V1 : num [1:4256] 680 NA 634 256 563 ...  
## ..- attr(\*, "label")= chr "Consommation en ernergie (kcal)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ protein\_g : num [1:4256] 23.31 NA 21.62 8.25 11.7 ...  
## ..- attr(\*, "label")= chr "Consommation en proteine (g)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ lipid\_tot\_g: num [1:4256] 5.3 NA 4.87 8.06 6.49 ...  
## ..- attr(\*, "label")= chr "Consommation en lipide (g)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ calcium\_mg : num [1:4256] 62.7 NA 57.1 22 116.3 ...  
## ..- attr(\*, "label")= chr "Consommation en calcium (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ iron\_mg : num [1:4256] 10.591 NA 9.897 0.912 2.716 ...  
## ..- attr(\*, "label")= chr "Consommation en fer (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ V9 : num [1:4256] 4.507 NA 4.19 0.456 3.382 ...  
## ..- attr(\*, "label")= chr "Consommation en zinc (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_b6\_mg : num [1:4256] 0.3058 NA 0.2835 0.0456 0.2248 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine B6 (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_b12\_mcg: num [1:4256] 0.00869 NA 0.0078 0 0.00823 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine B12 (mcg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_c\_mg : num [1:4256] 0.0441 NA 0.0396 0 0.0002 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine C (mcg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"

utils::str(mother\_endline)

## tibble [4,256 × 17] (S3: tbl\_df/tbl/data.frame)  
## $ regionid : num [1:4256] 2 2 2 2 2 2 2 2 2 2 ...  
## ..- attr(\*, "label")= chr "Region ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ communeid : num [1:4256] 25 25 25 25 25 25 25 25 25 25 ...  
## ..- attr(\*, "label")= chr "Commune ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ villageid : num [1:4256] 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 ...  
## ..- attr(\*, "label")= chr "Village ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ hhid : chr [1:4256] "4948484848535052" "4948484848535052" "4948484848535052" "4948484848535052" ...  
## ..- attr(\*, "label")= chr "Household ID"  
## ..- attr(\*, "format.stata")= chr "%45s"  
## $ round : dbl+lbl [1:4256] 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,...  
## ..@ label : chr "Survey round : Baseline, Endline"  
## ..@ format.stata: chr "%10.0g"  
## ..@ labels : Named num [1:2] 1 2  
## .. ..- attr(\*, "names")= chr [1:2] "Baseline" "Endline"  
## $ s1\_q0 : dbl+lbl [1:4256] 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4, 1, 2,...  
## ..@ label : chr "eating occasion"  
## ..@ format.stata: chr "%27.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Breakfast" "Lunch" "Dinner" "Snacks"  
## $ s1\_q1 : dbl+lbl [1:4256] 1, 1, 1, 1, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 0, 1, 1,...  
## ..@ label : chr "Meal consumed? Y/N"  
## ..@ format.stata: chr "%9.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "No" "Yes"  
## $ s1\_q2 : dbl+lbl [1:4256] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Who consummed?"  
## ..@ format.stata: chr "%16.0g"  
## ..@ labels : Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "mother" "child" "mother and child"  
## $ energ\_kcal : num [1:4256] 2217 1021 3038 716 618 ...  
## ..- attr(\*, "label")= chr "Consommation en ernergie (kcal)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ protein\_g : num [1:4256] 48.7 34.8 92 19.1 16.5 ...  
## ..- attr(\*, "label")= chr "Consommation en proteine (g)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ lipid\_tot\_g: num [1:4256] 89.6 5.94 183.6 4.73 1.63 ...  
## ..- attr(\*, "label")= chr "Consommation en lipide (g)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ calcium\_mg : num [1:4256] 818.8 72.1 1781.3 131.6 10.8 ...  
## ..- attr(\*, "label")= chr "Consommation en calcium (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ iron\_mg : num [1:4256] 22.659 16.558 11.345 8.877 0.105 ...  
## ..- attr(\*, "label")= chr "Consommation en fer (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ zinc\_mg : num [1:4256] 9.5691 6.4618 2.2278 3.5867 0.0334 ...  
## ..- attr(\*, "label")= chr "Consommation en zinc (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_b6\_mg : num [1:4256] 0.8748 0.4327 0.314 0.5277 0.0059 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine B6 (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_b12\_mcg: num [1:4256] 0.00948 0.02232 0 0.01281 0.01016 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine B12 (mcg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_c\_mg : num [1:4256] 11.547 0.183 26.738 0.133 0 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine C (mcg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"

utils::str(child\_baseline)

## tibble [4,256 × 17] (S3: tbl\_df/tbl/data.frame)  
## $ regionid : num [1:4256] 2 2 2 2 2 2 2 2 2 2 ...  
## ..- attr(\*, "label")= chr "Region ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ communeid : num [1:4256] 25 25 25 25 25 25 25 25 25 25 ...  
## ..- attr(\*, "label")= chr "Commune ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ villageid : num [1:4256] 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 ...  
## ..- attr(\*, "label")= chr "Village ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ hhid : chr [1:4256] "4948484848535052" "4948484848535052" "4948484848535052" "4948484848535052" ...  
## ..- attr(\*, "label")= chr "Household ID"  
## ..- attr(\*, "format.stata")= chr "%45s"  
## $ round : dbl+lbl [1:4256] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Survey round : Baseline, Endline"  
## ..@ format.stata: chr "%10.0g"  
## ..@ labels : Named num [1:2] 1 2  
## .. ..- attr(\*, "names")= chr [1:2] "Baseline" "Endline"  
## $ s1\_q0 : dbl+lbl [1:4256] 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4, 1, 2,...  
## ..@ label : chr "eating occasion"  
## ..@ format.stata: chr "%27.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Breakfast" "Lunch" "Dinner" "Snacks"  
## $ s1\_q1 : dbl+lbl [1:4256] 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Meal consumed? Y/N"  
## ..@ format.stata: chr "%9.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "No" "Yes"  
## $ s1\_q2 : dbl+lbl [1:4256] 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,...  
## ..@ label : chr "Who consummed?"  
## ..@ format.stata: chr "%16.0g"  
## ..@ labels : Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "mother" "child" "mother and child"  
## $ energ\_kcal : num [1:4256] 355 224 334 494 235 ...  
## ..- attr(\*, "label")= chr "Consommation en ernergie (kcal)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ protein\_g : num [1:4256] 12.74 8.01 12.72 16.65 4.45 ...  
## ..- attr(\*, "label")= chr "Consommation en proteine (g)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ lipid\_tot\_g: num [1:4256] 3.14 1.96 3.42 8.84 4.76 ...  
## ..- attr(\*, "label")= chr "Consommation en lipide (g)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ calcium\_mg : num [1:4256] 40.1 24.8 47 60.1 93.3 ...  
## ..- attr(\*, "label")= chr "Consommation en calcium (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ iron\_mg : num [1:4256] 5.39 3.42 4.9 6.83 1.54 ...  
## ..- attr(\*, "label")= chr "Consommation en fer (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ zinc\_mg : num [1:4256] 2.41 1.52 2.35 3.13 1.63 ...  
## ..- attr(\*, "label")= chr "Consommation en zinc (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_b6\_mg : num [1:4256] 0.167 0.105 0.168 0.207 0.116 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine B6 (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_b12\_mcg: num [1:4256] 0.00616 0.00377 0.00785 0.00959 0.00688 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine B12 (mcg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_c\_mg : num [1:4256] 0.031282 0.019173 0.03986 0.048689 0.000167 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine C (mcg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"

utils::str(child\_endline)

## tibble [4,256 × 17] (S3: tbl\_df/tbl/data.frame)  
## $ regionid : num [1:4256] 2 2 2 2 2 2 2 2 2 2 ...  
## ..- attr(\*, "label")= chr "Region ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ communeid : num [1:4256] 25 25 25 25 25 25 25 25 25 25 ...  
## ..- attr(\*, "label")= chr "Commune ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ villageid : num [1:4256] 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 ...  
## ..- attr(\*, "label")= chr "Village ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ hhid : chr [1:4256] "4948484848535052" "4948484848535052" "4948484848535052" "4948484848535052" ...  
## ..- attr(\*, "label")= chr "Household ID"  
## ..- attr(\*, "format.stata")= chr "%45s"  
## $ round : dbl+lbl [1:4256] 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,...  
## ..@ label : chr "Survey round : Baseline, Endline"  
## ..@ format.stata: chr "%10.0g"  
## ..@ labels : Named num [1:2] 1 2  
## .. ..- attr(\*, "names")= chr [1:2] "Baseline" "Endline"  
## $ s1\_q0 : dbl+lbl [1:4256] 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4, 1, 2, 3, 4, 1, 2,...  
## ..@ label : chr "eating occasion"  
## ..@ format.stata: chr "%27.0g"  
## ..@ labels : Named num [1:4] 1 2 3 4  
## .. ..- attr(\*, "names")= chr [1:4] "Breakfast" "Lunch" "Dinner" "Snacks"  
## $ s1\_q1 : dbl+lbl [1:4256] 1, 1, 1, 1, 1, 0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Meal consumed? Y/N"  
## ..@ format.stata: chr "%9.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "No" "Yes"  
## $ s1\_q2 : dbl+lbl [1:4256] 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,...  
## ..@ label : chr "Who consummed?"  
## ..@ format.stata: chr "%16.0g"  
## ..@ labels : Named num [1:3] 1 2 3  
## .. ..- attr(\*, "names")= chr [1:3] "mother" "child" "mother and child"  
## $ energ\_kcal : num [1:4256] 1193 535 1701 531 188 ...  
## ..- attr(\*, "label")= chr "Consommation en ernergie (kcal)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ protein\_g : num [1:4256] 24.94 18.38 58.84 13.89 5.04 ...  
## ..- attr(\*, "label")= chr "Consommation en proteine (g)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ lipid\_tot\_g: num [1:4256] 51.915 3.205 90.268 3.917 0.496 ...  
## ..- attr(\*, "label")= chr "Consommation en lipide (g)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ calcium\_mg : num [1:4256] 479.73 41.32 1122.63 74.44 3.29 ...  
## ..- attr(\*, "label")= chr "Consommation en calcium (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ iron\_mg : num [1:4256] 11.5857 8.709 7.2277 6.4328 0.0321 ...  
## ..- attr(\*, "label")= chr "Consommation en fer (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ zinc\_mg : num [1:4256] 4.9181 3.3562 1.4184 2.7147 0.0102 ...  
## ..- attr(\*, "label")= chr "Consommation en zinc (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_b6\_mg : num [1:4256] 0.4678 0.2251 0.2028 0.3523 0.0018 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine B6 (mg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_b12\_mcg: num [1:4256] 0.00396 0.01364 0 0.00736 0.00309 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine B12 (mcg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ vit\_c\_mg : num [1:4256] 6.8299 0.1201 16.904 0.0764 0 ...  
## ..- attr(\*, "label")= chr "Consommation en vitamine C (mcg)"  
## ..- attr(\*, "format.stata")= chr "%10.0g"

utils::str(base\_menage)

## tibble [1,065 × 21] (S3: tbl\_df/tbl/data.frame)  
## $ regionid : num [1:1065] 2 2 2 2 2 2 2 2 2 2 ...  
## ..- attr(\*, "label")= chr "Region ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ communeid : num [1:1065] 25 25 25 25 25 25 25 25 25 25 ...  
## ..- attr(\*, "label")= chr "Commune ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ villageid : num [1:1065] 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 ...  
## ..- attr(\*, "label")= chr "Village ID"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ hhid : chr [1:1065] "4948484848535052" "4948484848535053" "4948484848535055" "4948484848535056" ...  
## ..- attr(\*, "label")= chr "Household ID"  
## ..- attr(\*, "format.stata")= chr "%45s"  
## $ hhsize : num [1:1065] 4 8 11 9 16 6 31 8 23 5 ...  
## ..- attr(\*, "label")= chr "Household size"  
## ..- attr(\*, "format.stata")= chr "%10.0g"  
## $ poly : dbl+lbl [1:1065] 0, 0, 1, 0, 1, 0, 1, 1, 1, 0, 0, 1, 1, 1, 0, 1, 1, 0,...  
## ..@ label : chr "Polygamous household?"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ hh\_primary : dbl+lbl [1:1065] 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,...  
## ..@ label : chr "Household head completed primary education"  
## ..@ format.stata: chr "%9.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ s1\_q2 : dbl+lbl [1:1065] 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Male head of household"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Female" "Male"  
## $ s1\_q4a : num [1:1065] 37 52 67 38 75 41 56 52 63 26 ...  
## ..- attr(\*, "label")= chr "Age head of household"  
## ..- attr(\*, "format.stata")= chr "%8.0g"  
## $ s2\_q1 : dbl+lbl [1:1065] 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0,...  
## ..@ label : chr "Is head of household literate in local language"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ s2\_q2 : dbl+lbl [1:1065] 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,...  
## ..@ label : chr "Is head of household literate in French?"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ s2\_q4 : dbl+lbl [1:1065] 0, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 0, 1, 0,...  
## ..@ label : chr "Has head of household been to school (formal or informal)?"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ s29\_q1 : dbl+lbl [1:1065] 0, 0, 0, 1, 0, 1, 0, 1, 1, 0, 0, 0, 1, 1, 0, 0, 0, 0,...  
## ..@ label : chr "Est-ce qu'un membre de votre ménage a pris un prêt ou fait un emprunt en argent"  
## ..@ format.stata: chr "%8.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Non" "Oui"  
## $ demgrp1 : num [1:1065] 1 0 0 0 1 0 5 1 1 1 ...  
## ..- attr(\*, "label")= chr "Number of children 0-36 months"  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ demgrp2 : num [1:1065] 1 2 2 1 1 1 5 0 2 1 ...  
## ..- attr(\*, "label")= chr "Number of children 36-72 months"  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ demgrp3 : num [1:1065] 0 3 3 3 7 2 11 4 9 1 ...  
## ..- attr(\*, "label")= chr "Number of adults 6-14 years"  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ demgrp4 : num [1:1065] 1 2 5 5 6 3 10 3 11 2 ...  
## ..- attr(\*, "label")= chr "Number of adults 14-65 years"  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ demgrp5 : num [1:1065] 0 1 1 0 1 0 0 0 0 0 ...  
## ..- attr(\*, "label")= chr "Number of elders 65+ years"  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ dependencyratio: num [1:1065] 2 3 1.2 0.8 1.67 ...  
## ..- attr(\*, "label")= chr "Dependency ratio"  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ hfias\_score : num [1:1065] 18 21 0 4 1 3 12 0 14 0 ...  
## ..- attr(\*, "label")= chr "HFIAS Score (0-27)"  
## ..- attr(\*, "format.stata")= chr "%9.0g"  
## $ T1 : dbl+lbl [1:1065] 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1,...  
## ..@ label : chr "Treatment: 1st level comparison"  
## ..@ format.stata: chr "%12.0g"  
## ..@ labels : Named num [1:2] 0 1  
## .. ..- attr(\*, "names")= chr [1:2] "Controle" "Intervention"  
## - attr(\*, "label")= chr "One row per household"

# Partie 1 : Gestion et nettoyage des bases de données

## 1. VérifiONS la présence de doublons dans les bases de données Baseline, Endline et ménage en les si nécessaire.

# Vérifions les doublons dans chaque base de données  
# Cherchons si il y a des doublons dans chaque base de donnée a travers la fonction "cherche\_doub"; elle permet de détecter et d'analyser les doublons dans un jeu de données. Elle utilise la fonction `duplicated()` pour identifier les lignes répétées, compte le nombre de doublons trouvés, et affiche un message indiquant leur présence ou absence.  
   
cherche\_doub <- function(data) {  
 duplicates <- data[duplicated(data), ]  
 if (nrow(duplicates) > 0) {  
 print(paste("Doublons trouvés :", nrow(duplicates)))  
 return(duplicates)  
 } else {  
 print("Aucun doublon trouvé.")  
 return(NULL)  
 }  
}  
  
# Appliquons la vérification des doublons  
cherche\_doub(mother\_baseline)

## [1] "Aucun doublon trouvé."

## NULL

cherche\_doub(mother\_endline)

## [1] "Aucun doublon trouvé."

## NULL

cherche\_doub(child\_baseline)

## [1] "Aucun doublon trouvé."

## NULL

cherche\_doub(child\_endline)

## [1] "Aucun doublon trouvé."

## NULL

cherche\_doub(base\_menage)

## [1] "Doublons trouvés : 1"

## # A tibble: 1 × 21  
## regionid communeid villageid hhid hhsize poly hh\_primary s1\_q2 s1\_q4a  
## <dbl> <dbl> <dbl> <chr> <dbl> <dbl+l> <dbl+lbl> <dbl+l> <dbl>  
## 1 1 1 15 4953484… 6 0 [Non] 0 [Non] 1 [Mal… 65  
## # ℹ 12 more variables: s2\_q1 <dbl+lbl>, s2\_q2 <dbl+lbl>, s2\_q4 <dbl+lbl>,  
## # s29\_q1 <dbl+lbl>, demgrp1 <dbl>, demgrp2 <dbl>, demgrp3 <dbl>,  
## # demgrp4 <dbl>, demgrp5 <dbl>, dependencyratio <dbl>, hfias\_score <dbl>,  
## # T1 <dbl+lbl>

# Supprimer les doublons si nécessaire  
mother\_baseline <- mother\_baseline %>% distinct()  
mother\_endline <- mother\_endline %>% distinct()  
child\_baseline <- child\_baseline %>% distinct()  
child\_endline <- child\_endline %>% distinct()  
base\_menage <- base\_menage %>% distinct()

## 2. verifications de la coherence des noms ds variables

# Vérifier les noms des variables dans les bases de données  
nom\_var1<-names(mother\_baseline)  
print(nom\_var1)

## [1] "regionid" "communeid" "villageid" "hhid" "round"   
## [6] "s1\_q0" "s1\_q1" "s1\_q2" "V1" "protein\_g"   
## [11] "lipid\_tot\_g" "calcium\_mg" "iron\_mg" "V9" "vit\_b6\_mg"   
## [16] "vit\_b12\_mcg" "vit\_c\_mg"

nom\_var2<-names(mother\_endline)  
print(nom\_var2)

## [1] "regionid" "communeid" "villageid" "hhid" "round"   
## [6] "s1\_q0" "s1\_q1" "s1\_q2" "energ\_kcal" "protein\_g"   
## [11] "lipid\_tot\_g" "calcium\_mg" "iron\_mg" "zinc\_mg" "vit\_b6\_mg"   
## [16] "vit\_b12\_mcg" "vit\_c\_mg"

nom\_var3<-names(child\_baseline)  
print(nom\_var3)

## [1] "regionid" "communeid" "villageid" "hhid" "round"   
## [6] "s1\_q0" "s1\_q1" "s1\_q2" "energ\_kcal" "protein\_g"   
## [11] "lipid\_tot\_g" "calcium\_mg" "iron\_mg" "zinc\_mg" "vit\_b6\_mg"   
## [16] "vit\_b12\_mcg" "vit\_c\_mg"

nom\_var4<-names(child\_endline)  
print(nom\_var4)

## [1] "regionid" "communeid" "villageid" "hhid" "round"   
## [6] "s1\_q0" "s1\_q1" "s1\_q2" "energ\_kcal" "protein\_g"   
## [11] "lipid\_tot\_g" "calcium\_mg" "iron\_mg" "zinc\_mg" "vit\_b6\_mg"   
## [16] "vit\_b12\_mcg" "vit\_c\_mg"

# En comparant les noms des variables dans les bases de données, on observe des différences dans la base 'mother\_baseline' qui contient des variables nommées V1 et V9 au lieu de energ\_kcal et zinc\_mg.  
  
# Renommons les variables dans mother\_baseline en remplacant V1 par energ\_kcal et V9 par zinc\_mg  
mother\_baseline <- mother\_baseline %>%  
 rename(  
 energ\_kcal = V1,  
 zinc\_mg = V9   
 )  
  
# Vérifions maintenant si les noms des variables après correction  
names(mother\_baseline)

## [1] "regionid" "communeid" "villageid" "hhid" "round"   
## [6] "s1\_q0" "s1\_q1" "s1\_q2" "energ\_kcal" "protein\_g"   
## [11] "lipid\_tot\_g" "calcium\_mg" "iron\_mg" "zinc\_mg" "vit\_b6\_mg"   
## [16] "vit\_b12\_mcg" "vit\_c\_mg"

## 3. Gestion des données manquantes

# Vérifier les données manquantes  
# Les lignes de codes suivants verifient s'il y a des valeurs manquantes dans les base de données a travers la fonction 'is.na' pout trouver les valeurs manquantes et la fonction 'sum' pour les additions et donné le nombes de valeurs manquantes dans chaques base de données.  
  
val\_manq1<-sum(is.na(mother\_baseline))  
print(val\_manq1)

## [1] 6069

val\_manq2<-sum(is.na(mother\_endline))  
print(val\_manq2)

## [1] 5976

val\_manq3<-sum(is.na(child\_baseline))  
print(val\_manq3)

## [1] 3474

val\_manq4<-sum(is.na(child\_endline))  
print(val\_manq4)

## [1] 4788

val\_manq5<-sum(is.na(base\_menage))  
print(val\_manq5)

## [1] 1

# Correction des données manquantes si possible  
# Noms remplacerons les NA par la moyenne pour les variables numériques dans chaquebase de donnée  
mother\_baseline <- mother\_baseline %>%  
 mutate(across(where(is.numeric), ~ ifelse(is.na(.), mean(., na.rm = TRUE), .)))  
  
mother\_endline <- mother\_endline %>%  
 mutate(across(where(is.numeric), ~ ifelse(is.na(.), mean(., na.rm = TRUE), .)))  
  
child\_baseline <- child\_baseline %>%  
 mutate(across(where(is.numeric), ~ ifelse(is.na(.), mean(., na.rm = TRUE), .)))  
  
child\_endline <- child\_endline %>%  
 mutate(across(where(is.numeric), ~ ifelse(is.na(.), mean(., na.rm = TRUE), .)))  
  
base\_menage <- base\_menage %>%  
 mutate(across(where(is.numeric), ~ ifelse(is.na(.), mean(., na.rm = TRUE), .)))

## 4. Consommation moyenne d’energie pour les mères a chaque repas

cons\_energ <- mother\_baseline %>%  
 group\_by(energ\_kcal) %>%  
 summarise(avg\_energy = mean(energ\_kcal, na.rm = TRUE))  
  
print(cons\_energ)

## # A tibble: 3,495 × 2  
## energ\_kcal avg\_energy  
## <dbl> <dbl>  
## 1 0 0   
## 2 1.47 1.47  
## 3 2.06 2.06  
## 4 2.10 2.10  
## 5 2.75 2.75  
## 6 2.96 2.96  
## 7 3.15 3.15  
## 8 3.19 3.19  
## 9 3.21 3.21  
## 10 3.26 3.26  
## # ℹ 3,485 more rows

# Sauvegarder les bases de données nettoyées  
  
# A travers les codes suivants nous utilisons la fonction write\_dta() du package haven pour sauvegarder les jeux de données nettoyés dans des fichiers au format .dta (format de fichier utilisé par Stata). Voici une explication ligne par ligne :  
   
write\_dta(mother\_baseline, "mother\_baseline\_v1.dta")  
write\_dta(mother\_endline, "mother\_endline\_v1.dta")  
write\_dta(child\_baseline, "child\_baseline\_v1.dta")  
write\_dta(child\_endline, "child\_endline\_v1.dta")  
write\_dta(base\_menage, "base\_menage\_final.dta")

# Partie 2 Empilement et fusion des donnés

# Chargement des base de données

# Chargons les bases de données nettoyées  
mother\_baseline<- read\_dta("mother\_baseline\_v1.dta")  
child\_baseline <- read\_dta("child\_baseline\_v1.dta")

# Charger les données  
mother\_baseline <- read\_dta("mother\_baseline\_v1.dta")  
child\_baseline <- read\_dta("child\_baseline\_v1.dta")  
  
# Ajouter une colonne pour identifier les mères et les enfants  
mother\_baseline <- mother\_baseline %>% mutate(type = "mother")  
child\_baseline <- child\_baseline %>% mutate(type = "child")  
  
# Empiler les données  
baseline\_data1 <- bind\_rows(mother\_baseline, child\_baseline)  
baseline\_data1

## # A tibble: 8,512 × 18  
## regionid communeid villageid hhid round s1\_q0 s1\_q1 s1\_q2 energ\_kcal  
## <dbl> <dbl> <dbl> <chr> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 2 25 1000 494848484853… 1 1 1 1 680.  
## 2 2 25 1000 494848484853… 1 2 0 1 715.  
## 3 2 25 1000 494848484853… 1 3 1 1 634.  
## 4 2 25 1000 494848484853… 1 4 1 1 256.  
## 5 2 25 1000 494848484853… 1 1 1 1 563.  
## 6 2 25 1000 494848484853… 1 2 0 1 715.  
## 7 2 25 1000 494848484853… 1 3 0 1 715.  
## 8 2 25 1000 494848484853… 1 4 0 1 715.  
## 9 2 25 1000 494848484853… 1 1 1 1 237.  
## 10 2 25 1000 494848484853… 1 2 1 1 553.  
## # ℹ 8,502 more rows  
## # ℹ 9 more variables: protein\_g <dbl>, lipid\_tot\_g <dbl>, calcium\_mg <dbl>,  
## # iron\_mg <dbl>, zinc\_mg <dbl>, vit\_b6\_mg <dbl>, vit\_b12\_mcg <dbl>,  
## # vit\_c\_mg <dbl>, type <chr>

# Liste des variables à renommer  
cons\_vars <- c("energ\_kcal", "protein\_g", "lipid\_tot\_g", "calcium\_mg", "iron\_mg", "zinc\_mg","vit\_c\_mg")  
  
# Ajouter le suffixe \_b  
baseline\_data <- baseline\_data1 %>%  
 rename\_with(~ paste0(., "\_b"), all\_of(cons\_vars))

# Résumons les consommations journalières totales par individu  
baseline\_summary <- baseline\_data %>%  
 group\_by(hhid, s1\_q2, type) %>%  
 summarise(across(ends\_with("\_b"), sum, na.rm = TRUE), .groups = "drop")

## Warning: There was 1 warning in `summarise()`.  
## ℹ In argument: `across(ends\_with("\_b"), sum, na.rm = TRUE)`.  
## ℹ In group 1: `hhid = "4948484848535052"`, `s1\_q2 = 1`, `type = "mother"`.  
## Caused by warning:  
## ! The `...` argument of `across()` is deprecated as of dplyr 1.1.0.  
## Supply arguments directly to `.fns` through an anonymous function instead.  
##   
## # Previously  
## across(a:b, mean, na.rm = TRUE)  
##   
## # Now  
## across(a:b, \(x) mean(x, na.rm = TRUE))

# Afficher le résultat  
print(baseline\_summary)

## # A tibble: 2,128 × 10  
## hhid s1\_q2 type energ\_kcal\_b protein\_g\_b lipid\_tot\_g\_b calcium\_mg\_b  
## <chr> <dbl> <chr> <dbl> <dbl> <dbl> <dbl>  
## 1 494848484853… 1 moth… 2285. 75.3 30.0 257.   
## 2 494848484853… 2 child 1407. 50.1 17.4 172.   
## 3 494848484853… 1 moth… 2707. 77.9 41.7 460.   
## 4 494848484853… 2 child 1001. 18.9 20.1 394.   
## 5 494848484853… 1 moth… 2530. 102. 19.4 304.   
## 6 494848484853… 2 child 634. 27.4 3.59 51.3  
## 7 494848484853… 1 moth… 6120. 205. 131. 936.   
## 8 494848484853… 2 child 6965. 226. 132. 1204.   
## 9 494848484853… 1 moth… 2178. 71.8 11.0 201.   
## 10 494848484853… 2 child 1062. 34.1 5.32 110.   
## # ℹ 2,118 more rows  
## # ℹ 3 more variables: iron\_mg\_b <dbl>, zinc\_mg\_b <dbl>, vit\_c\_mg\_b <dbl>

#Sauvergarde de la base de donnée final  
# Sélectionner les colonnes nécessaires  
baseline\_final <- baseline\_summary %>%  
 select(hhid, s1\_q2, energ\_kcal\_b, protein\_g\_b, lipid\_tot\_g\_b, calcium\_mg\_b, iron\_mg\_b, zinc\_mg\_b)  
  
# Sauvegarder  
write\_dta(baseline\_final, "baseline\_final.dta")

## 2.Endline

# Charger les données  
mother\_endline <- read\_dta("mother\_endline\_v1.dta")  
child\_endline <- read\_dta("child\_endline\_v1.dta")  
  
# Ajouter une colonne pour identifier les mères et les enfants  
mother\_endline <- mother\_endline %>% mutate(type = "mother")  
child\_endline <- child\_endline %>% mutate(type = "child")  
  
# Empiler les données  
endline\_data <- bind\_rows(mother\_endline, child\_endline)

# Ajout du suffixe \_e  
endline\_data <- endline\_data %>%  
 rename\_with(~ paste0(., "\_e"), all\_of(cons\_vars))  
endline\_data

## # A tibble: 8,512 × 18  
## regionid communeid villageid hhid round s1\_q0 s1\_q1 s1\_q2 energ\_kcal\_e  
## <dbl> <dbl> <dbl> <chr> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 2 25 1000 4948484848… 2 1 1 1 2217.  
## 2 2 25 1000 4948484848… 2 2 1 1 1021.  
## 3 2 25 1000 4948484848… 2 3 1 1 3038.  
## 4 2 25 1000 4948484848… 2 4 1 1 716.  
## 5 2 25 1000 4948484848… 2 1 1 1 618.  
## 6 2 25 1000 4948484848… 2 2 0 1 714.  
## 7 2 25 1000 4948484848… 2 3 1 1 675.  
## 8 2 25 1000 4948484848… 2 4 0 1 714.  
## 9 2 25 1000 4948484848… 2 1 1 1 876.  
## 10 2 25 1000 4948484848… 2 2 1 1 414.  
## # ℹ 8,502 more rows  
## # ℹ 9 more variables: protein\_g\_e <dbl>, lipid\_tot\_g\_e <dbl>,  
## # calcium\_mg\_e <dbl>, iron\_mg\_e <dbl>, zinc\_mg\_e <dbl>, vit\_b6\_mg <dbl>,  
## # vit\_b12\_mcg <dbl>, vit\_c\_mg\_e <dbl>, type <chr>

# Résumons les consommations journalières totales par individu  
endline\_summary <- endline\_data %>%  
 group\_by(hhid, s1\_q2, type) %>%  
 summarise(across(ends\_with("\_e"), sum, na.rm = TRUE), .groups = "drop")  
  
# Afficher le résultat  
print(endline\_summary)

## # A tibble: 2,128 × 10  
## hhid s1\_q2 type energ\_kcal\_e protein\_g\_e lipid\_tot\_g\_e calcium\_mg\_e  
## <chr> <dbl> <chr> <dbl> <dbl> <dbl> <dbl>  
## 1 494848484853… 1 moth… 6992. 195. 284. 2804.  
## 2 494848484853… 2 child 3960. 116. 149. 1718.  
## 3 494848484853… 1 moth… 2720. 77.9 31.3 280.  
## 4 494848484853… 2 child 1237. 37.1 19.0 189.  
## 5 494848484853… 1 moth… 3112. 73.9 124. 419.  
## 6 494848484853… 2 child 3149. 107. 97.8 451.  
## 7 494848484853… 1 moth… 4849. 88.1 136. 247.  
## 8 494848484853… 2 child 3873. 66.7 118. 118.  
## 9 494848484853… 1 moth… 2884. 109. 18.3 3197.  
## 10 494848484853… 2 child 1208. 42.5 7.76 1159.  
## # ℹ 2,118 more rows  
## # ℹ 3 more variables: iron\_mg\_e <dbl>, zinc\_mg\_e <dbl>, vit\_c\_mg\_e <dbl>

#Sauvergarde de la base final  
# Sélectionner les colonnes nécessaires  
endline\_final <- endline\_summary %>%  
 select(hhid, s1\_q2, energ\_kcal\_e, protein\_g\_e, lipid\_tot\_g\_e, calcium\_mg\_e, iron\_mg\_e, zinc\_mg\_e)  
  
# Sauvegarder  
write\_dta(endline\_final, "endline\_final.dta")

## 3. Fusion des deux bases

# Fusion des deux bases de données  
merged\_data <- merge(baseline\_final, endline\_final, by = c("hhid", "s1\_q2"))

## 4. Fusion des caracteristiques

# Charger la base de données des ménages  
base\_menage\_final <- read\_dta("base\_menage\_final.dta")  
  
# Fusionner avec les données précédentes  
final\_data <- merge(merged\_data, base\_menage\_final, by = "hhid")  
final\_data

## hhid s1\_q2.x energ\_kcal\_b protein\_g\_b lipid\_tot\_g\_b  
## 1 4948484848535052 1 2285.2040 75.265496 29.961542  
## 2 4948484848535052 2 1407.2918 50.123092 17.358239  
## 3 4948484848535053 1 2706.9945 77.924665 41.666817  
## 4 4948484848535053 2 1000.5253 18.934041 20.100990  
## 5 4948484848535055 1 2529.5427 101.936737 19.438424  
## 6 4948484848535055 2 634.0593 27.381433 3.590614  
## 7 4948484848535056 1 6119.5296 205.256484 130.596841  
## 8 4948484848535056 2 6965.0950 226.235048 132.243301  
## 9 4948484848535151 1 2178.0303 71.784416 10.951043  
## 10 4948484848535151 2 1061.9118 34.107263 5.321029  
## 11 4948484848535152 1 1875.2836 63.979414 9.578186  
## 12 4948484848535152 2 1525.4876 55.147492 8.361584  
## 13 4948484848535154 1 2292.7970 61.804905 27.042226  
## 14 4948484848535154 2 1597.7769 41.950541 19.752149  
## 15 4948484848535155 1 1965.0203 58.845897 16.990106  
## 16 4948484848535155 2 1174.3424 40.471013 14.445204  
## 17 4948484848535253 1 1713.9271 52.201075 7.659847  
## 18 4948484848535253 2 1098.9079 39.664642 12.194892  
## 19 4948484848535255 1 2343.9044 61.402402 19.922662  
## 20 4948484848535255 2 1278.5721 30.816550 6.815407  
## 21 4948484848535256 1 3432.7816 95.965364 46.734072  
## 22 4948484848535256 2 2483.2241 67.390800 32.921243  
## 23 4948484848535257 1 1789.9995 69.893620 23.183311  
## 24 4948484848535257 2 1028.0765 43.561798 11.467269  
## 25 4948485048535349 1 1942.9530 60.988374 45.163095  
## 26 4948485048535349 2 1148.2972 39.776235 6.916755  
## 27 4948485048535353 1 2084.7029 65.708258 33.613248  
## 28 4948485048535353 2 1560.1160 47.932628 26.870925  
## 29 4948485048535448 1 2242.7761 82.777445 10.510045  
## 30 4948485048535448 2 3337.5043 115.991167 90.999320  
## 31 4948485048535454 1 2723.2071 61.845653 39.165998  
## 32 4948485048535454 2 2277.7622 46.543773 61.322889  
## 33 4948485048535455 1 2625.0093 79.570095 21.399154  
## 34 4948485048535455 2 1346.9150 41.218920 12.768712  
## 35 4948485048535456 1 2035.6616 60.974194 31.968387  
## 36 4948485048535456 2 769.2814 23.594196 11.399291  
## 37 4948485048535550 1 3626.7447 86.560246 59.727894  
## 38 4948485048535550 2 2088.2564 55.334200 46.434803  
## 39 4948485048535551 1 2542.3624 67.460503 73.541232  
## 40 4948485048535551 2 2867.8201 89.272518 93.076015  
## 41 4948485048535552 1 3673.8288 99.142954 57.396711  
## 42 4948485048535552 2 2964.5767 84.365255 44.600219  
## 43 4948485048535553 1 1728.6855 49.669859 26.469312  
## 44 4948485048535553 2 811.8462 24.695024 12.483341  
## 45 4948485048535554 1 3441.0470 124.897778 113.769503  
## 46 4948485048535554 2 1818.2320 64.561245 40.000637  
## 47 4948485048535556 1 2727.3422 83.621894 58.202942  
## 48 4948485048535556 2 1345.9467 43.183085 44.420466  
## 49 4948485648535649 1 3046.9473 71.859354 37.940067  
## 50 4948485648535649 2 3132.2332 82.694840 38.117681  
## 51 4948485648535650 1 3292.3948 136.071346 44.104378  
## 52 4948485648535650 2 1818.7309 91.606512 26.693949  
## 53 4948485648535655 1 3072.7026 66.191578 24.980620  
## 54 4948485648535655 2 1933.6590 51.624153 30.921367  
## 55 4948485648535749 1 2093.9593 65.857726 39.616169  
## 56 4948485648535749 2 1478.8237 53.513618 35.059321  
## 57 4948485648535750 1 3216.4307 86.707596 121.999373  
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## 2126 57575548534956 2 1141.3921 37.398627 23.220231  
## 2127 57575548534957 1 2249.8765 65.285393 36.298320  
## 2128 57575548534957 2 1338.2504 44.708526 53.580818  
## calcium\_mg\_b iron\_mg\_b zinc\_mg\_b energ\_kcal\_e protein\_g\_e lipid\_tot\_g\_e  
## 1 256.59180 30.166050 12.799940 6992.0581 194.624370 283.867844  
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## 4 393.66780 6.514608 6.908091 1236.7872 37.107503 18.992856  
## 5 303.64365 30.329402 15.704493 3111.8058 73.934203 123.886747  
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## 9 200.87760 27.425939 12.066450 2883.9718 108.729820 18.271531  
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## 17 174.73634 22.265788 9.400505 1861.4486 62.932956 11.522557  
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## 21 781.55236 80.171454 24.269103 2206.2718 60.025277 29.662798  
## 22 753.82681 59.322802 17.820640 1613.2380 49.245478 27.380652  
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## 24 192.13827 26.699621 8.559428 808.2242 23.528867 3.039167  
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## 26 105.40349 6.850659 3.998099 1680.2656 61.566576 31.893179  
## 27 198.39520 12.827121 8.105108 3425.0983 102.698515 124.157525  
## 28 129.92047 6.200417 4.615986 2037.8006 58.134227 83.544595  
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## 1707 177.88815 12.327572 13.429423 2332.7341 68.875405 36.759365  
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## 1947 405.32708 18.259421 12.120799 5199.9911 176.914411 124.032733  
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## 1951 259.47098 30.674414 15.641691 2358.3189 49.540532 54.339655  
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## 1953 616.19535 20.029806 13.224821 11245.2763 364.908456 294.504641  
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## 1958 724.96156 24.435522 18.946450 1773.9268 37.275838 94.426814  
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## 1963 361.84052 59.943237 15.583259 1243.5169 31.297396 4.584965  
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## 2031 201.85068 28.620488 17.823389 1991.8519 58.922594 47.668534  
## 2032 100.96296 6.144726 4.900437 1312.0069 35.466990 39.435713  
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## 2036 607.29476 62.641029 15.921387 1698.3418 54.276430 28.398758  
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## 2038 91.61920 5.945593 6.834846 1487.6769 56.315883 45.756391  
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## 2079 149.35762 7.915139 4.812150 869.9819 43.637154 7.395738  
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## 980 2 10 0 0.4000000 14 1  
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## 982 12 7 0 2.0000000 6 1  
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## 1856 6 4 0 2.0000000 0 0  
## 1857 3 2 0 2.0000000 2 0  
## 1858 3 2 0 2.0000000 2 0  
## 1859 5 5 0 1.8000000 2 0  
## 1860 5 5 0 1.8000000 2 0  
## 1861 0 2 0 1.0000000 0 0  
## 1862 0 2 0 1.0000000 0 0  
## 1863 3 2 0 2.0000000 0 0  
## 1864 3 2 0 2.0000000 0 0  
## 1865 6 5 0 2.4000001 0 0  
## 1866 6 5 0 2.4000001 0 0  
## 1867 1 3 1 1.3333334 0 0  
## 1868 1 3 1 1.3333334 0 0  
## 1869 0 2 0 1.0000000 1 1  
## 1870 0 2 0 1.0000000 1 1  
## 1871 0 2 0 0.5000000 1 1  
## 1872 0 2 0 0.5000000 1 1  
## 1873 2 2 0 1.5000000 0 1  
## 1874 2 2 0 1.5000000 0 1  
## 1875 3 2 0 2.0000000 9 1  
## 1876 3 2 0 2.0000000 9 1  
## 1877 2 2 0 2.0000000 8 1  
## 1878 2 2 0 2.0000000 8 1  
## 1879 4 5 1 1.4000000 0 1  
## 1880 4 5 1 1.4000000 0 1  
## 1881 2 5 0 0.6000000 0 1  
## 1882 2 5 0 0.6000000 0 1  
## 1883 3 8 0 0.7500000 11 1  
## 1884 3 8 0 0.7500000 11 1  
## 1885 1 2 0 1.5000000 9 1  
## 1886 1 2 0 1.5000000 9 1  
## 1887 1 2 0 1.5000000 6 1  
## 1888 1 2 0 1.5000000 6 1  
## 1889 3 5 0 1.0000000 8 1  
## 1890 3 5 0 1.0000000 8 1  
## 1891 0 2 0 1.0000000 0 1  
## 1892 0 2 0 1.0000000 0 1  
## 1893 5 5 0 1.4000000 8 1  
## 1894 5 5 0 1.4000000 8 1  
## 1895 0 3 0 0.6666667 0 1  
## 1896 0 3 0 0.6666667 0 1  
## 1897 0 2 0 0.5000000 0 1  
## 1898 0 2 0 0.5000000 0 1  
## 1899 2 4 0 1.0000000 4 1  
## 1900 2 4 0 1.0000000 4 1  
## 1901 1 2 0 1.0000000 0 1  
## 1902 1 2 0 1.0000000 0 1  
## 1903 3 9 0 0.5555556 2 1  
## 1904 3 9 0 0.5555556 2 1  
## 1905 0 2 0 0.5000000 6 1  
## 1906 0 2 0 0.5000000 6 1  
## 1907 2 6 0 0.5000000 8 1  
## 1908 2 6 0 0.5000000 8 1  
## 1909 3 4 0 1.0000000 0 1  
## 1910 3 4 0 1.0000000 0 1  
## 1911 4 3 0 1.6666666 0 1  
## 1912 4 3 0 1.6666666 0 1  
## 1913 4 7 2 1.0000000 0 1  
## 1914 4 7 2 1.0000000 0 1  
## 1915 0 3 0 0.3333333 0 1  
## 1916 0 3 0 0.3333333 0 1  
## 1917 0 2 0 1.0000000 0 1  
## 1918 0 2 0 1.0000000 0 1  
## 1919 5 4 0 1.7500000 1 1  
## 1920 5 4 0 1.7500000 1 1  
## 1921 1 2 0 1.5000000 0 1  
## 1922 1 2 0 1.5000000 0 1  
## 1923 6 5 0 1.8000000 0 1  
## 1924 6 5 0 1.8000000 0 1  
## 1925 5 5 0 1.2000000 0 1  
## 1926 5 5 0 1.2000000 0 1  
## 1927 3 7 0 0.5714286 0 1  
## 1928 3 7 0 0.5714286 0 1  
## 1929 3 3 0 2.0000000 0 1  
## 1930 3 3 0 2.0000000 0 1  
## 1931 2 2 0 1.5000000 18 1  
## 1932 2 2 0 1.5000000 18 1  
## 1933 0 2 0 0.5000000 0 1  
## 1934 0 2 0 0.5000000 0 1  
## 1935 0 2 0 1.0000000 0 1  
## 1936 0 2 0 1.0000000 0 1  
## 1937 2 3 0 1.0000000 0 1  
## 1938 2 3 0 1.0000000 0 1  
## 1939 2 3 0 1.6666666 0 1  
## 1940 2 3 0 1.6666666 0 1  
## 1941 3 4 0 1.7500000 0 1  
## 1942 3 4 0 1.7500000 0 1  
## 1943 1 2 0 1.0000000 0 1  
## 1944 1 2 0 1.0000000 0 1  
## 1945 2 3 0 1.0000000 0 1  
## 1946 2 3 0 1.0000000 0 1  
## 1947 0 2 0 1.0000000 3 1  
## 1948 0 2 0 1.0000000 3 1  
## 1949 4 9 0 0.8888889 0 1  
## 1950 4 9 0 0.8888889 0 1  
## 1951 0 2 0 0.5000000 0 1  
## 1952 0 2 0 0.5000000 0 1  
## 1953 2 10 0 0.4000000 0 1  
## 1954 2 10 0 0.4000000 0 1  
## 1955 1 7 1 0.5714286 0 1  
## 1956 1 7 1 0.5714286 0 1  
## 1957 2 3 0 1.3333334 1 1  
## 1958 2 3 0 1.3333334 1 1  
## 1959 0 2 0 0.5000000 0 1  
## 1960 0 2 0 0.5000000 0 1  
## 1961 5 6 0 1.0000000 0 1  
## 1962 5 6 0 1.0000000 0 1  
## 1963 4 2 0 3.5000000 12 1  
## 1964 4 2 0 3.5000000 12 1  
## 1965 1 2 1 2.0000000 12 1  
## 1966 1 2 1 2.0000000 12 1  
## 1967 2 3 0 2.0000000 4 1  
## 1968 2 3 0 2.0000000 4 1  
## 1969 1 2 0 1.5000000 0 1  
## 1970 1 2 0 1.5000000 0 1  
## 1971 6 3 0 3.0000000 0 1  
## 1972 6 3 0 3.0000000 0 1  
## 1973 4 4 0 1.5000000 0 1  
## 1974 4 4 0 1.5000000 0 1  
## 1975 1 4 0 0.7500000 0 1  
## 1976 1 4 0 0.7500000 0 1  
## 1977 1 3 0 0.6666667 12 1  
## 1978 1 3 0 0.6666667 12 1  
## 1979 3 3 0 2.6666667 9 1  
## 1980 3 3 0 2.6666667 9 1  
## 1981 3 4 0 1.7500000 0 1  
## 1982 3 4 0 1.7500000 0 1  
## 1983 2 3 0 1.0000000 1 1  
## 1984 2 3 0 1.0000000 1 1  
## 1985 2 2 0 2.0000000 0 1  
## 1986 2 2 0 2.0000000 0 1  
## 1987 3 2 0 2.5000000 0 1  
## 1988 3 2 0 2.5000000 0 1  
## 1989 2 2 0 2.0000000 0 1  
## 1990 2 2 0 2.0000000 0 1  
## 1991 1 2 0 1.0000000 0 1  
## 1992 1 2 0 1.0000000 0 1  
## 1993 3 3 0 1.3333334 7 1  
## 1994 3 3 0 1.3333334 7 1  
## 1995 3 2 0 2.5000000 0 1  
## 1996 3 2 0 2.5000000 0 1  
## 1997 0 2 0 1.0000000 0 1  
## 1998 0 2 0 1.0000000 0 1  
## 1999 1 2 0 1.5000000 9 1  
## 2000 1 2 0 1.5000000 9 1  
## 2001 0 2 0 0.5000000 12 1  
## 2002 0 2 0 0.5000000 12 1  
## 2003 4 5 0 1.0000000 0 1  
## 2004 4 5 0 1.0000000 0 1  
## 2005 2 4 0 0.7500000 0 1  
## 2006 2 4 0 0.7500000 0 1  
## 2007 2 2 0 2.0000000 9 1  
## 2008 2 2 0 2.0000000 9 1  
## 2009 3 6 2 1.1666666 8 0  
## 2010 3 6 2 1.1666666 8 0  
## 2011 4 4 1 1.7500000 6 0  
## 2012 4 4 1 1.7500000 6 0  
## 2013 8 7 0 1.8571428 0 0  
## 2014 8 7 0 1.8571428 0 0  
## 2015 1 2 0 1.0000000 1 0  
## 2016 1 2 0 1.0000000 1 0  
## 2017 0 2 0 1.0000000 2 0  
## 2018 0 2 0 1.0000000 2 0  
## 2019 2 3 0 1.6666666 7 0  
## 2020 2 3 0 1.6666666 7 0  
## 2021 1 4 0 0.5000000 8 0  
## 2022 1 4 0 0.5000000 8 0  
## 2023 2 2 0 2.5000000 4 0  
## 2024 2 2 0 2.5000000 4 0  
## 2025 5 6 1 1.3333334 8 0  
## 2026 5 6 1 1.3333334 8 0  
## 2027 3 3 0 2.0000000 10 0  
## 2028 3 3 0 2.0000000 10 0  
## 2029 3 3 1 2.0000000 12 0  
## 2030 3 3 1 2.0000000 12 0  
## 2031 2 2 0 1.5000000 0 0  
## 2032 2 2 0 1.5000000 0 0  
## 2033 1 2 0 1.5000000 1 0  
## 2034 1 2 0 1.5000000 1 0  
## 2035 2 5 0 1.0000000 0 0  
## 2036 2 5 0 1.0000000 0 0  
## 2037 3 2 0 2.0000000 0 0  
## 2038 3 2 0 2.0000000 0 0  
## 2039 4 3 0 1.6666666 3 0  
## 2040 4 3 0 1.6666666 3 0  
## 2041 2 2 0 2.0000000 0 0  
## 2042 2 2 0 2.0000000 0 0  
## 2043 5 3 0 2.0000000 4 0  
## 2044 5 3 0 2.0000000 4 0  
## 2045 2 5 0 0.6000000 8 0  
## 2046 2 5 0 0.6000000 8 0  
## 2047 9 11 1 1.3636364 0 0  
## 2048 9 11 1 1.3636364 0 0  
## 2049 6 4 0 2.5000000 15 0  
## 2050 6 4 0 2.5000000 15 0  
## 2051 3 2 0 2.5000000 8 0  
## 2052 3 2 0 2.5000000 8 0  
## 2053 5 8 0 1.1250000 8 0  
## 2054 5 8 0 1.1250000 8 0  
## 2055 3 2 0 2.5000000 10 0  
## 2056 3 2 0 2.5000000 10 0  
## 2057 4 7 0 0.8571429 5 0  
## 2058 4 7 0 0.8571429 5 0  
## 2059 6 4 1 2.2500000 8 0  
## 2060 6 4 1 2.2500000 8 0  
## 2061 4 3 0 1.6666666 6 0  
## 2062 4 3 0 1.6666666 6 0  
## 2063 1 4 0 0.5000000 8 0  
## 2064 1 4 0 0.5000000 8 0  
## 2065 2 3 0 1.3333334 1 0  
## 2066 2 3 0 1.3333334 1 0  
## 2067 0 3 2 1.0000000 11 0  
## 2068 0 3 2 1.0000000 11 0  
## 2069 0 5 0 0.4000000 2 0  
## 2070 0 5 0 0.4000000 2 0  
## 2071 2 8 1 0.5000000 5 0  
## 2072 2 8 1 0.5000000 5 0  
## 2073 6 10 0 1.1000000 8 0  
## 2074 6 10 0 1.1000000 8 0  
## 2075 1 3 1 1.0000000 1 0  
## 2076 1 3 1 1.0000000 1 0  
## 2077 4 3 0 2.6666667 8 0  
## 2078 4 3 0 2.6666667 8 0  
## 2079 9 8 0 1.3750000 1 0  
## 2080 9 8 0 1.3750000 1 0  
## 2081 5 5 0 2.2000000 5 0  
## 2082 5 5 0 2.2000000 5 0  
## 2083 1 2 0 1.0000000 0 0  
## 2084 1 2 0 1.0000000 0 0  
## 2085 5 6 0 1.1666666 5 0  
## 2086 5 6 0 1.1666666 5 0  
## 2087 4 5 0 1.6000000 10 0  
## 2088 4 5 0 1.6000000 10 0  
## 2089 1 3 0 1.6666666 8 0  
## 2090 1 3 0 1.6666666 8 0  
## 2091 2 2 0 2.0000000 6 0  
## 2092 2 2 0 2.0000000 6 0  
## 2093 3 4 0 1.5000000 2 0  
## 2094 3 4 0 1.5000000 2 0  
## 2095 6 6 0 1.5000000 1 0  
## 2096 6 6 0 1.5000000 1 0  
## 2097 5 10 1 1.0000000 10 0  
## 2098 5 10 1 1.0000000 10 0  
## 2099 3 6 0 1.0000000 3 0  
## 2100 3 6 0 1.0000000 3 0  
## 2101 3 2 1 2.5000000 8 0  
## 2102 3 2 1 2.5000000 8 0  
## 2103 6 7 1 1.4285715 1 0  
## 2104 6 7 1 1.4285715 1 0  
## 2105 5 5 0 1.4000000 5 0  
## 2106 5 5 0 1.4000000 5 0  
## 2107 0 2 0 1.0000000 5 0  
## 2108 0 2 0 1.0000000 5 0  
## 2109 2 2 1 3.0000000 9 0  
## 2110 2 2 1 3.0000000 9 0  
## 2111 2 2 1 2.0000000 17 0  
## 2112 2 2 1 2.0000000 17 0  
## 2113 4 4 0 1.5000000 0 0  
## 2114 4 4 0 1.5000000 0 0  
## 2115 3 7 0 1.1428572 0 0  
## 2116 3 7 0 1.1428572 0 0  
## 2117 1 2 0 1.5000000 15 0  
## 2118 1 2 0 1.5000000 15 0  
## 2119 6 6 0 1.3333334 10 0  
## 2120 6 6 0 1.3333334 10 0  
## 2121 1 3 0 0.6666667 0 0  
## 2122 1 3 0 0.6666667 0 0  
## 2123 2 2 0 2.0000000 0 0  
## 2124 2 2 0 2.0000000 0 0  
## 2125 1 3 0 0.6666667 0 0  
## 2126 1 3 0 0.6666667 0 0  
## 2127 3 5 0 1.6000000 12 0  
## 2128 3 5 0 1.6000000 12 0

## 5.Sauvergarde de la base

# Partie 3

# Un tableau recapitulatif  
tableau <- mother\_baseline %>%  
 select(s1\_q2, energ\_kcal, protein\_g, lipid\_tot\_g, calcium\_mg, iron\_mg, vit\_b6\_mg, vit\_b12\_mcg, vit\_c\_mg) %>% # Sélection des variables  
 tbl\_summary(  
 by = s1\_q2, # Par groupe s1\_q2  
 label = list(  
 energ\_kcal ~ "Energie (kcal)", #  
 protein\_g ~ "Protéines (g)",  
 lipid\_tot\_g ~ "Lipides totaux (g)",  
 calcium\_mg ~ "Calcium (mg)",  
 iron\_mg ~ "Fer (mg)",  
 vit\_b6\_mg ~ "Vitamine B6 (mg)",  
 vit\_b12\_mcg ~ "Vitamine B12 (mcg)",  
 vit\_c\_mg ~ "Vitamine C (mg)"  
 ),  
 statistic = list(  
 all\_continuous() ~ "{mean} ({sd})", # Moyenne et écart-type pour les variables continues  
 all\_categorical() ~ "{n} ({p}%)" # Effectif et pourcentage pour les variables catégorielles  
 ),  
 digits = list(all\_continuous() ~ 0), # Arrondir les valeurs continues à 0 décimale  
 missing\_text = "Valeurs manquantes" # Texte personnalisé pour les données manquantes  
 ) %>%  
 add\_p() %>% # Ajouter les tests de p-value  
 modify\_header(label = "\*\*Variable\*\*") %>% # Modifier l'en-tête de la colonne 'label'  
 bold\_labels() # Mettre en gras les noms des variables

## The following errors were returned during `modify\_header()`:  
## ✖ For variable `calcium\_mg` (`s1\_q2`) and "statistic", "p.value", and  
## "parameter" statistics: toutes les observations appartiennent au même groupe  
## ✖ For variable `energ\_kcal` (`s1\_q2`) and "statistic", "p.value", and  
## "parameter" statistics: toutes les observations appartiennent au même groupe  
## ✖ For variable `iron\_mg` (`s1\_q2`) and "statistic", "p.value", and "parameter"  
## statistics: toutes les observations appartiennent au même groupe  
## ✖ For variable `lipid\_tot\_g` (`s1\_q2`) and "statistic", "p.value", and  
## "parameter" statistics: toutes les observations appartiennent au même groupe  
## ✖ For variable `protein\_g` (`s1\_q2`) and "statistic", "p.value", and  
## "parameter" statistics: toutes les observations appartiennent au même groupe  
## ✖ For variable `vit\_b12\_mcg` (`s1\_q2`) and "statistic", "p.value", and  
## "parameter" statistics: toutes les observations appartiennent au même groupe  
## ✖ For variable `vit\_b6\_mg` (`s1\_q2`) and "statistic", "p.value", and  
## "parameter" statistics: toutes les observations appartiennent au même groupe  
## ✖ For variable `vit\_c\_mg` (`s1\_q2`) and "statistic", "p.value", and "parameter"  
## statistics: toutes les observations appartiennent au même groupe

# Afficher le tableau  
tableau

| **Variable** | **1** N = 4,256*1* | **p-value** |
| --- | --- | --- |
| **Energie (kcal)** | 715 (475) |  |
| **Protéines (g)** | 22 (34) |  |
| **Lipides totaux (g)** | 12 (22) |  |
| **Calcium (mg)** | 115 (154) |  |
| **Fer (mg)** | 9 (9) |  |
| **Vitamine B6 (mg)** | 0 (0) |  |
| **Vitamine B12 (mcg)** | 0 (2) |  |
| **Vitamine C (mg)** | 27 (72) |  |
| *1*Mean (SD) | | |