Trabajo I

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```
library("tidyverse")
## -- Attaching packages ------ tidyverse 1.3.2 --
## v ggplot2 3.4.0 v purrr 0.3.5
## v tibble 3.1.8
                    v dplyr 1.0.10
## v tidyr 1.2.1
                    v stringr 1.5.0
## v readr 2.1.3 v forcats 0.5.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library("here")
## here() starts at /Users/matiasbajac/Desktop/Muestreo-I-
datos=load(here("Datos","RB (1).RData"))
rm(datos)
datos = rio_branco
rm(rio_branco)
var_names <- names(datos)[grepl("^NBI_", names(datos))][-13]</pre>
for (var_name in var_names) {
datos[[var_name]] <- gsub("[89]", "0", datos[[var_name]])</pre>
}
for (var_name in var_names) {
datos[[var_name]] <- as.numeric(datos[[var_name]])</pre>
}
datos=datos %>% mutate(n2= NBI_EDUCACIÓN + NBI_HAC + NBI_MAT+NBI_COC +NBI_VIV +NBI_AGUA+NBI_SANEA+NBI_E
datos
## # A tibble: 5,159 x 148
##
     ID_VIVIENDA DPTO
                          LOC SECC SEGM VIVID CCZ BARRI~1 sp_2010 TIPO_~2
               <chr+lbl> <chr> <chr> <dbl> <dbl> <chr> <dbl> <dbl> <dbl> <dbl> <dbl+l>
##
                                             1 NA ""
```

2 NA ""

003

003

3 1 [Par~

3 1 [Par~

03

1 04030030001 04 [CERRO ~ 522

2 04030030002 04 [CERRO ~ 522 03

```
3 04030030003 04 [CERRO ~ 522
                                     03
                                           003
                                                          NA ""
                                                                            3 1 [Par~
                                                          NA ""
   4 04030030006 04 [CERRO ~ 522
                                    03
                                           003
                                                     6
                                                                            3 1 [Par~
   5 04030030007 04 [CERRO ~ 522
                                     03
                                           003
                                                     7
                                                          NA ""
                                                                            3 1 [Par~
                                                          NA ""
   6 04030030008 04 [CERRO ~ 522
                                           003
                                                                            3 1 [Par~
                                    03
                                                     8
                                                          NA ""
   7 04030030010 04 [CERRO ~ 522
                                     03
                                           003
                                                    10
                                                                            3 1 [Par~
                                                          NA ""
##
   8 04030030012 04 [CERRO ~ 522
                                     03
                                           003
                                                    12
                                                                            3 1 [Par~
                                                          NA ""
   9 04030030013 04 [CERRO ~ 522
                                     03
                                           003
                                                    13
                                                                            3 1 [Par~
                                                          NA ""
## 10 04030030014 04 [CERRO ~ 522
                                    03
                                           003
                                                    14
                                                                            3 1 [Par~
## # ... with 5,149 more rows, 138 more variables: PLANILLA <dbl+1bl>,
       MA <dbl+lbl>, VIVV001 <dbl+lbl>, VIVV003 <dbl+lbl>, VIVV004 <dbl+lbl>,
       VIVDV01 <dbl+lbl>, VIVDV02 <dbl+lbl>, VIVDV03 <dbl+lbl>, VIVDV05 <dbl+lbl>,
       VIVDV06 <dbl+lbl>, VIVDV07 <dbl+lbl>, VIVHV01 <dbl+lbl>, VIVHV01_1 <dbl>,
## #
## #
       CATEVIV <dbl+lbl>, HOGID <dbl+, HOGTE01 <dbl+lbl>, HOGTE02 <dbl+lbl>,
       HOGTEO3 <dbl+lbl>, HOGHDO0 <dbl>, HOGHDO1 <dbl>, HOGSHO1 <dbl+lbl>,
## #
## #
       HOGSHO2 <dbl+lbl>, HOGSHO3 <dbl+lbl>, HOGSCO1 <dbl+lbl>, ...
```

class(datos\$NBI_CALENTADOR)

[1] "numeric"

datos\$n2

```
##
##
   ##
   ##
  [186] 1 0 0 2 1 0 0 2 1 3 0 0 1 1 1 1 1 0 0 1 0 1 8 2 0 0 0 0 0 1 1 2 0 0 0 0 2 0
##
  [260] 2 0 0 1 0 1 1 0 0 0 4 0 0 0 0 0 0 1 3 0 1 6 0 1 3 2 0 0 1 2 1 0 1 4 0 0 0
##
  [297] 0 0 2 0 1 5 0 3 6 1 0 1 0 3 1 3 0 2 1 0 0 0 0 0 1 0 0 0 0 0 0 1 1 0 0
  ##
  [371] 0 0 2 0 0 0 0 0 0 2 1 0 2 1 0 0 0 2 0 1 0 0 3 0 1 0 1 0 0 0 0 1 0 0 0 1
  ##
##
  [445] 0 1 1 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1
  [482] 3 0 5 0 4 4 0 0 0 0 1 2 0 0 1 0 2 2 0 1 1 0 0 3 3 0 0 8 0 0 1 2 0 0 0 1 0
##
  [519] 0 0 1 0 4 0 0 3 0 0 2 0 0 1 0 1 1 0 0 0 3 0 0 1 0 2 1 0 1 0 0 0 0 0 0 3
  [556] 0 0 1 4 0 0 1 0 5 0 0 0 1 0 1 3 1 1 0 0 0 0 4 0 1 0 0 1 0 2 0 0 1 0 0 0
##
##
  [704] 1 0 0 0 0 4 0 2 0 0 5 1 1 0 1 0 1 1 0 0 2 0 0 0 0 0 3 0 0 0 1 1 0 0 0 2 0
##
##
  [741] \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 1 \ 0 \ 0 \ 2 \ 1 \ 0 \ 0 \ 0 \ 1 \ 0 \ 2 \ 0 \ 1 \ 0 \ 2 \ 0 \ 1 \ 2 \ 0 \ 0 \ 2 \ 1 \ 3 \ 2 \ 3 \ 0 \ 0 \ 1 \ 1
  [778] \ 0 \ 0 \ 1 \ 0 \ 1 \ 2 \ 0 \ 0 \ 0 \ 4 \ 1 \ 0 \ 0 \ 0 \ 0 \ 1 \ 0 \ 1 \ 0 \ 1 \ 0 \ 1 \ 2 \ 2 \ 0 \ 0 \ 1 \ 0 \ 1 \ 1 \ 1 \ 2
  [852] \ 1 \ 0 \ 0 \ 2 \ 1 \ 0 \ 0 \ 0 \ 0 \ 1 \ 4 \ 0 \ 2 \ 0 \ 1 \ 0 \ 1 \ 6 \ 1 \ 0 \ 0 \ 0 \ 2 \ 0 \ 1 \ 1 \ 1 \ 1 \ 0 \ 0 \ 0 \ 5 \ 0 \ 1 \ 5
  [889] \ 2 \ 1 \ 0 \ 0 \ 0 \ 1 \ 0 \ 0 \ 0 \ 3 \ 1 \ 0 \ 0 \ 0 \ 1 \ 3 \ 1 \ 0 \ 4 \ 1 \ 1 \ 0 \ 3 \ 0 \ 0 \ 2 \ 0 \ 1 \ 0 \ 1 \ 0 \ 0 \ 2 \ 0 \ 1
##
  [926] 0 0 3 0 0 3 1 2 0 2 0 0 3 1 2 4 3 1 0 0 1 2 0 0 0 4 4 0 0 1 2 1 4 0 1 0 1
  [963] 2 0 1 0 0 1 1 0 2 1 3 1 1 0 4 2 0 0 0 5 1 0 0 0 2 1 4 1 0 1 0 0 7 2 3 1 0
## [1000] 3 0 2 0 0 0 1 1 1 2 6 0 0 1 2 1 0 0 0 0 1 1 0 2 0 3 2 1 1 0 1 0 0 0 0 3 0
## [1111] 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 3 3 1 4 0 0 0 0 0 1 0 0 2 1 0 0 0 1 2 0
```

[5144] 2 0 0 0 0 2 0 0 1 0 2 1 1 4 2 2

Estimaremos el total de hogares que tienen XO