

# Taller

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## PUNTO 1

```
library(readxl)
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5    v purrr  0.3.4
## v tibble  3.1.3    v dplyr  1.0.7
## v tidyr   1.1.3    v stringr 1.4.0
## v readr   2.0.0    v forcats 0.5.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(dplyr)
```

A

```
personas <- read_xlsx("Área - Características generales (Personas).xlsx")
view(personas)
trabajo <- read_xlsx("Área- Fuerza de trabajo.xlsx")
```

```
## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in H13218 / R13218C8: got 'REDES SOCIALES'
```

```
## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in H15013 / R15013C8: got 'INTERNET'
```

```
## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in H22854 / R22854C8: got 'HACE CURSO DE CONDUCCION'
```

```
attach(personas)
attach(trabajo)
```

```
## The following objects are masked from personas:
```

```
##
```

```
## AREA, DIRECTORIO, DPT0, fex_c_2011, HOGAR, MES, ORDEN, REGIS,
```

```
## SECUENCIA_P
```

```
datos <- left_join(personas, trabajo, by = c("DIRECTORIO", "SECUENCIA_P", "ORDEN"))
attach(datos)
```

```
## The following objects are masked from trabajo:
```

```
##
```

```
## DIRECTORIO, FT, ORDEN, P6230, P6240, P6240S1, P6250, P6260, P6270,
## P6280, P6290, P6290S1, P6300, P6310, P6310S1, P6320, P6330, P6340,
## P6350, P6351, SECUENCIA_P
```

```
## The following objects are masked from personas:
```

```
##
```

```
## DIRECTORIO, ESC, ORDEN, P3147S1, P3147S10, P3147S10A1, P3147S11,
## P3147S2, P3147S3, P3147S4, P3147S5, P3147S6, P3147S7, P3147S8,
## P3147S9, P3246, P6016, P6020, P6030S1, P6030S3, P6040, P6050,
## P6070, P6071, P6071S1, P6080, P6080S1, P6081, P6081S1, P6083,
## P6083S1, P6090, P6100, P6110, P6120, P6125, P6140, P6150, P6160,
## P6170, P6175, P6210, P6210S1, P6220, P6269, SECUENCIA_P
```

## B

```
dim(datos)
```

```
## [1] 27730    76
```

```
view(datos)
```

## C

```
RV <- datos %>% mutate(P6240a = ifelse(P6240 == 1, 1, 0))
dim(RV)
```

```
## [1] 27730    77
```

```
view(RV)
```

## D

```
TH <- RV %>% group_by(DIRECTORIO, SECUENCIA_P)%>% summarise(n= sum(P6240a))
```

```
## 'summarise()' has grouped output by 'DIRECTORIO'. You can override using the '.groups' argument.
```

```
cu <- factor(TH$n)
```

## E

```
OC <- RV %>% select( DIRECTORIO, SECUENCIA_P, P6240a) %>% group_by(DIRECTORIO) %>% summarise(P6240b =
```

## F

```
tabla <- table(TH$n)
sum(is.na(TH$n))
```

```
## [1] 2926
```

G

```
T1 <- datos %>% mutate(P6240a = ifelse(P6240 == 1, 1,0))
```

H

```
TP <- RV %>% select(DIRECTORIO, SECUENCIA_P, P6240a, fex_c_2011.x) %>% group_by(DIRECTORIO, fex_c_2011.x)
```

```
## 'summarise()' has grouped output by 'DIRECTORIO'. You can override using the '.groups' argument.
```

I

```
FACTOR_TP <- factor(TP$n)
```

k

```
(tabla)/margin.table(tabla)
```

```
##
##           0           1           2           3           4           5
## 0.3053127102 0.4443510424 0.1997310020 0.0403496974 0.0087424344 0.0013449899
##           6
## 0.0001681237
```

*Punto 2*

```
EQUI <- read_xlsx("Equivalencias ciiu.xlsx")
```

```
## New names:
## * ' ' -> ...1
```

```
attach(EQUI)
view(EQUI)
```

A

```
tamano <- left_join(OC, personas)
```

```
## Joining, by = "DIRECTORIO"
```

```
attach(tamano)
```

```
## The following objects are masked from datos:
##
##     DIRECTORIO, ESC, ORDEN, P3147S1, P3147S10, P3147S10A1, P3147S11,
##     P3147S2, P3147S3, P3147S4, P3147S5, P3147S6, P3147S7, P3147S8,
##     P3147S9, P3246, P6016, P6020, P6030S1, P6030S3, P6040, P6050,
##     P6070, P6071, P6071S1, P6080, P6080S1, P6081, P6081S1, P6083,
##     P6083S1, P6090, P6100, P6110, P6120, P6125, P6140, P6150, P6160,
##     P6170, P6175, P6210, P6210S1, P6220, P6269, SECUENCIA_P

## The following objects are masked from trabajo:
##
##     AREA, DIRECTORIO, DPTO, fex_c_2011, HOGAR, MES, ORDEN, REGIS,
##     SECUENCIA_P

## The following objects are masked from personas:
##
##     AREA, DIRECTORIO, DPTO, ESC, fex_c_2011, HOGAR, MES, ORDEN,
##     P3147S1, P3147S10, P3147S10A1, P3147S11, P3147S2, P3147S3, P3147S4,
##     P3147S5, P3147S6, P3147S7, P3147S8, P3147S9, P3246, P6016, P6020,
##     P6030S1, P6030S3, P6040, P6050, P6070, P6071, P6071S1, P6080,
##     P6080S1, P6081, P6081S1, P6083, P6083S1, P6090, P6100, P6110,
##     P6120, P6125, P6140, P6150, P6160, P6170, P6175, P6210, P6210S1,
##     P6220, P6269, REGIS, SECUENCIA_P
```

## B

```
A <- read_xlsx("Área - Ocupados.xlsx")
```

```
## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in DE1138 / R1138C109: got 'BUSCAR UN MEJOR TRABAJO'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR2784 / R2784C96: got 'CON DINERO DE SU TRABAJO'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR2808 / R2808C96: got 'UTILIZA EPS COBERTURA'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR2863 / R2863C96: got 'CON LO QUE GANA'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR2864 / R2864C96: got 'CON LO QUE GANA'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR2870 / R2870C96: got 'INGRESO DEL TRABAJO'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR2884 / R2884C96: got 'CON LO QUE GANA'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR2894 / R2894C96: got 'INGRESOS DEL TRABAJO'
```

```

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR2895 / R2895C96: got 'CON LO QUE GANA'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR2896 / R2896C96: got 'CON LO QUE GANA'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR2906 / R2906C96: got 'INGRESOS DEL TRABAJO'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in DE3284 / R3284C109: got 'TIENE LAS SEMANAS DE COTIZACION LE
## FALTA CUMPLIR LA EDAD'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in DE3294 / R3294C109: got 'RECIBE PENSION POR SUSTITUCION'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in DE3309 / R3309C109: got 'RECIBE PENSION POR SUSTITUCION'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR4669 / R4669C96: got 'SISBEN'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR5513 / R5513C96: got 'CON LO QUE GANA'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR7761 / R7761C96: got 'PARTICULAR'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in T8187 / R8187C20: got 'AYUDANTE DE EMPLEADO DE EMPRESA
## PARTICULAR'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in T8304 / R8304C20: got 'AYUDANTE DE EMPLEADO DE EMPRESA
## PARTICULAR'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR8477 / R8477C96: got 'CONNLO QUE GANA'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR9499 / R9499C96: got 'CON LO QUE GANA'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR9500 / R9500C96: got 'CON LO QUE GANA'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR9805 / R9805C96: got 'EL PATRON CUBRE EL GASTO'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in DM11706 / R11706C117: got 'POR CUARENTENA DE COVID 19'

## Warning in read_fun(path = enc2native(normalizePath(path)), sheet_i = sheet, :
## Expecting logical in CR11745 / R11745C96: got 'CON LO QUE GANA'

```

```
B <- merge(x = EQUI, tamaño)
```