

title: "LAB 30"

author: "JESSICA PAOLA AGUILAR SERVIN"

date: "2023-02-24"

output: html_document

#####

Laboratorio_30- Datos ordenados- (merge) FUNDIR dos bases de datos

#####

Llamar libreria de data.table

```
library(data.table)
```

Localizar ruta de archivos choose.files() Rutas de alas dos bases a unir se crea una variable por cada una

```
green.products <- read.csv("C:\\Users\\gusta\\OneDrive\\Documents\\GitHub\\JPAS_LABS30\\INPUT\\green products.csv")
all.products <- read.csv("C:\\Users\\gusta\\OneDrive\\Documents\\GitHub\\JPAS_LABS30\\INPUT\\COMPLETE_YEARS_PRODUCTS.csv")
```

Leer como dataframe o tabla de datos

```
green.products <- as.data.table(green.products)
all.products <- as.data.table(all.products)
```

HACER MERGER Unir ambas tablas mediante las variables comunes

```
merge.allproducts = merge(all.products, green.products, by = "product_code")
head(merge.allproducts)
```

```

##      product_code year import_num_plants export_num_plants      cog export_rca
## 1:      3802 2004           0           0 0.7680           0
## 2:      3802 2005           0           0 0.7505           0
## 3:      3802 2006           1           0 0.6734           0
## 4:      3802 2007           1           0 0.6566           0
## 5:      3802 2008           2           0 0.6057           0
## 6:      3802 2009           5           0 0.5020           0
##      export_value density import_value      pci      eci      coi location_name
## 1:           0 0.0422         0.000 0.4449 0.4733 46.0809 Aguascalientes
## 2:           0 0.0471         0.000 -0.2351 0.8261 53.4246 Aguascalientes
## 3:           0 0.0432       6961.494 0.2330 0.5928 43.0901 Aguascalientes
## 4:           0 0.0427       2702.394 0.4317 0.4530 39.9383 Aguascalientes
## 5:           0 0.0491       5475.081 0.3940 0.6643 49.9589 Aguascalientes
## 6:           0 0.0444       5287.035 -0.5602 0.5273 42.0102 Aguascalientes
##      location_code
## 1:           1
## 2:           1
## 3:           1
## 4:           1
## 5:           1
## 6:           1
##
##                                     product_name.x
## 1: Activated carbon; activated natural mineral products; animal black, including spent animal black
## 2: Activated carbon; activated natural mineral products; animal black, including spent animal black
## 3: Activated carbon; activated natural mineral products; animal black, including spent animal black
## 4: Activated carbon; activated natural mineral products; animal black, including spent animal black
## 5: Activated carbon; activated natural mineral products; animal black, including spent animal black
## 6: Activated carbon; activated natural mineral products; animal black, including spent animal black
##
##                                     product_name.es.x
## 1: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
## 2: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
## 3: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
## 4: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
## 5: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
## 6: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
##
##                                     product_name.y
## 1: Activated carbon; activated natural mineral products; animal black, including spent animal black
## 2: Activated carbon; activated natural mineral products; animal black, including spent animal black
## 3: Activated carbon; activated natural mineral products; animal black, including spent animal black
## 4: Activated carbon; activated natural mineral products; animal black, including spent animal black
## 5: Activated carbon; activated natural mineral products; animal black, including spent animal black
## 6: Activated carbon; activated natural mineral products; animal black, including spent animal black
##
##                                     product_name.es.y
## 1: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
## 2: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
## 3: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
## 4: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
## 5: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
## 6: Carbón activado; materias minerales naturales activadas; negro de origen animal, incluido el agotado.
##
##      color Medium                                     type_medium
## 1: green      WAT Waste water management and potable water treatment.
## 2: green      WAT Waste water management and potable water treatment.
## 3: green      WAT Waste water management and potable water treatment.
## 4: green      WAT Waste water management and potable water treatment.
## 5: green      WAT Waste water management and potable water treatment.
## 6: green      WAT Waste water management and potable water treatment.
##
##      ORIGINAL.NAME      HS6 NUM
## 1:      ACTIVATED 380210      1
## 2:      ACTIVATED 380210      1
## 3:      ACTIVATED 380210      1
## 4:      ACTIVATED 380210      1
## 5:      ACTIVATED 380210      1
## 6:      ACTIVATED 380210      1

```

Unir todo. Visualizar resultado de todo

```

merge.full = merge(all.products, green.products, by = "product_code", all.x = T)
head(merge.full)

```

```

##      product_code year import_num_plants export_num_plants      cog export_rca
## 1:          101 2004                1                0 1.1849      0.0000
## 2:          101 2005                0                3 1.1254      0.0196
## 3:          101 2006                0                0 1.0338      0.0000
## 4:          101 2007                0                0 1.0596      0.0000
## 5:          101 2008                5                0 0.9865      0.0000
## 6:          101 2009               120                0 0.9779      0.0000
##      export_value density import_value      pci      eci      coi location_name
## 1:          0.00 0.0376          1000 1.0094 0.4733 46.0809 Aguascalientes
## 2:        12003.49 0.0442              0 1.0953 0.8261 53.4246 Aguascalientes
## 3:          0.00 0.0389              0 1.0580 0.5928 43.0901 Aguascalientes
## 4:          0.00 0.0360              0 0.7758 0.4530 39.9383 Aguascalientes
## 5:          0.00 0.0479         135550 1.1168 0.6643 49.9589 Aguascalientes
## 6:          0.00 0.0434         4209225 0.3383 0.5273 42.0102 Aguascalientes
##      location_code      product_name.x
## 1:          1 Live horses, asses, mules or hinnies
## 2:          1 Live horses, asses, mules or hinnies
## 3:          1 Live horses, asses, mules or hinnies
## 4:          1 Live horses, asses, mules or hinnies
## 5:          1 Live horses, asses, mules or hinnies
## 6:          1 Live horses, asses, mules or hinnies
##      product_name_es.x product_name.y product_name_es.y
## 1: Caballos, asnos, mulos y burdéganos, vivos.      <NA>      <NA>
## 2: Caballos, asnos, mulos y burdéganos, vivos.      <NA>      <NA>
## 3: Caballos, asnos, mulos y burdéganos, vivos.      <NA>      <NA>
## 4: Caballos, asnos, mulos y burdéganos, vivos.      <NA>      <NA>
## 5: Caballos, asnos, mulos y burdéganos, vivos.      <NA>      <NA>
## 6: Caballos, asnos, mulos y burdéganos, vivos.      <NA>      <NA>
##      color Medium type_medium ORIGINAL.NAME HS6 NUM
## 1: <NA> <NA>      <NA>      <NA> NA NA
## 2: <NA> <NA>      <NA>      <NA> NA NA
## 3: <NA> <NA>      <NA>      <NA> NA NA
## 4: <NA> <NA>      <NA>      <NA> NA NA
## 5: <NA> <NA>      <NA>      <NA> NA NA
## 6: <NA> <NA>      <NA>      <NA> NA NA

```

Exportar resultado obtenido como csv

```
write.csv(merge.full, file = "merge.full.csv")
```

Exportar otras tablas obetnidas como csv

```

write.csv(all.products, file = "LAB30_allproducts.csv")
write.csv(green.products, file = "LAB30_greenproducts.csv")
write.csv(merge.allproducts, file= "LAB30_mergeallproducts.csv")
write.csv(merge.full, file = "LABS30_mergefull.csv")

```