

Laboratorio 30-MD

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2023-02-23

Laboratorio 30- Datos ordenados- Unir (merge) dos bases de datos

Llamar libreria de data.table

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

Ubicar ruta datos a utilizar (base1)

```
choose.files()
```

```
## [1] "C:\\Users\\leisl\\OneDrive\\Doctorado\\Semestre-3\\Temas-Selectos-1-Complejidad-Económica\\Modulo2\\Seman  
a5-Labs-Salas\\Lab-30\\COMPLETE_YEARS_PRODUCTS.csv"
```

Ubicar ruta datos a utilizar (base2)

```
choose.files()
```

```
## [1] "C:\\Users\\leisl\\OneDrive\\Doctorado\\Semestre-3\\Temas-Selectos-1-Complejidad-Económica\\Modulo2\\Seman  
a5-Labs-Salas\\Lab-30\\green products.csv"
```

Teniendo la ruta de las dos bases a unir se crea una variable por cada una

```
green.products <- read.csv("COMPLETE_YEARS_PRODUCTS.csv")  
  
all.products <- read.csv("green products.csv")
```

Hacer que R lee los datos como un dataframe o tabla de datos

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

Unir ambas tablas o bases mediante las variables comunes (product_code). Visualizar resultado

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

```

##      product_code
## 1:      3802
## 2:      3802
## 3:      3802
## 4:      3802
## 5:      3802
## 6:      3802
##
##                                     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.
##
##      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 year import_num_plants export_num_plants      cog
## 1:      ACTIVATED 380210      1 2004                      0                      0 0.7680
## 2:      ACTIVATED 380210      1 2005                      0                      0 0.7505
## 3:      ACTIVATED 380210      1 2006                      1                      0 0.6734
## 4:      ACTIVATED 380210      1 2007                      1                      0 0.6566
## 5:      ACTIVATED 380210      1 2008                      2                      0 0.6057
## 6:      ACTIVATED 380210      1 2009                      5                      0 0.5020
##
##      export_rca export_value density import_value      pci      eci      coi
## 1:      0          0      0.0422          0.000      0.4449 0.4733 46.0809
## 2:      0          0      0.0471          0.000     -0.2351 0.8261 53.4246
## 3:      0          0      0.0432      6961.494      0.2330 0.5928 43.0901
## 4:      0          0      0.0427      2702.394      0.4317 0.4530 39.9383
## 5:      0          0      0.0491      5475.081      0.3940 0.6643 49.9589
## 6:      0          0      0.0444      52827.035     -0.5602 0.5273 42.0102
##
##      location_name location_code
## 1: Aguascalientes          1
## 2: Aguascalientes          1
## 3: Aguascalientes          1
## 4: Aguascalientes          1
## 5: Aguascalientes          1
## 6: Aguascalientes          1
##
##                                     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.
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## 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.

```

Unir todo (no solo una variable o parte). Visualizar resultado

```

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

head(merge.full)

```

```

##      product_code
## 1:      3802
## 2:      3802
## 3:      3802
## 4:      3802
## 5:      3802
## 6:      3802
##
##                                     product_name.x
## 1: Activated carbon; activated natural mineral products; animal black, including spent animal black
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## 6: Activated carbon; activated natural mineral products; animal black, including spent animal black
##
##                                     product_name_es.x
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## 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.
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##      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 year import_num_plants export_num_plants cog
## 1:  ACTIVATED 380210  1 2004                0                0 0.7680
## 2:  ACTIVATED 380210  1 2005                0                0 0.7505
## 3:  ACTIVATED 380210  1 2006                1                0 0.6734
## 4:  ACTIVATED 380210  1 2007                1                0 0.6566
## 5:  ACTIVATED 380210  1 2008                2                0 0.6057
## 6:  ACTIVATED 380210  1 2009                5                0 0.5020
##      export_rca export_value density import_value pci eci coi
## 1:      0          0 0.0422      0.000 0.4449 0.4733 46.0809
## 2:      0          0 0.0471      0.000 -0.2351 0.8261 53.4246
## 3:      0          0 0.0432    6961.494 0.2330 0.5928 43.0901
## 4:      0          0 0.0427    2702.394 0.4317 0.4530 39.9383
## 5:      0          0 0.0491    5475.081 0.3940 0.6643 49.9589
## 6:      0          0 0.0444    52827.035 -0.5602 0.5273 42.0102
##      location_name location_code
## 1: Aguascalientes      1
## 2: Aguascalientes      1
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## 4: Aguascalientes      1
## 5: Aguascalientes      1
## 6: Aguascalientes      1
##
##                                     product_name.y
## 1: Activated carbon; activated natural mineral products; animal black, including spent animal black
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## 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.
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## 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.

```

Exportar resultado obtenido como csv

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