

2022-final-Homework-AGR.R

Alejandro

2022-02-27

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# Script for Crops dataset merge
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### Class: Quantitative Methods
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## 1. Import the dataset

nitrox <- read.csv("../2022-02-18-tarea-phd-statistics/2019-1971-nitrous-TRANPOSED-Poland.csv")
crops <- read.csv("../dataCropsTransposed.csv")

## 2. Check crops dataset characteristics
View(crops)
colnames(crops)

## [1] "Anise..badian..fennel..coriander" "Apples"
## [3] "Apricots" "Asparagus"
## [5] "Barley" "Beans..dry"
## [7] "Beans..green" "Berries.nes"
## [9] "Blueberries" "Broad.beans..horse.beans..dry"
## [11] "Buckwheat" "Cabbages.and.other.brassicas"
## [13] "Carrots.and.turnips" "Cauliflowers.and.broccoli"
## [15] "Cereals.nes" "Cereals..Total"
## [17] "Cherries" "Cherries..sour"
## [19] "Chestnut" "Chicory.roots"
## [21] "Chillies.and.peppers..green" "Cucumbers.and.gherkins"
## [23] "Currants" "Fibre.Crops.Primary"
## [25] "Flax.fibre.and.tow" "Fruit.Primary"
## [27] "Fruit..fresh.nes" "Fruit..stone.nes"
## [29] "Garlic" "Gooseberries"
## [31] "Grain..mixed" "Grapes"
## [33] "Hazelnuts..with.shell" "Hemp.tow.waste"
## [35] "Hempseed" "Hops"
## [37] "Leeks..other.alliaceouse.vegetables" "Lettuce.and.chicory"
## [39] "Linseed" "Lupins"
## [41] "Maize" "Maize..green"
## [43] "Millet" "Mushrooms.and.truffles"
## [45] "Nuts.nes" "Oats"
## [47] "Oilcrops" "Oilcrops..Cake.Equivalent"
## [49] "Oilcrops..Oil.Equivalent" "Oilseeds.nes"
## [51] "Onions..dry" "Peaches.and.nectarines"
## [53] "Pears" "Peas..dry"
## [55] "Peas..green" "Plums.and.sloes"
## [57] "Potatoes" "Pulses.nes"
```

```
## [59] "Pulses..Total"           "Pumpkins..squash.and.gourds"
## [61] "Rapeseed"                "Raspberries"
## [63] "Roots.and.Tubers..Total" "Rye"
## [65] "Soybeans"                "Spinach"
## [67] "Strawberries"           "String.beans"
## [69] "Sugar.Crops.Primary"     "Sugar.beet"
## [71] "Sunflower.seed"         "Tobacco..unmanufactured"
## [73] "Tomatoes"               "Treenuts..Total"
## [75] "Triticale"              "Vegetables.Primary"
## [77] "Vegetables..fresh.nes"   "Vegetables..leguminous.nes"
## [79] "Vetches"                "Walnuts..with.shell"
## [81] "Wheat"
```

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## 3. Create the dataset I will work with
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```
finalCrops <- crops[,c("Cereals..Total",
                       "Roots.and.Tubers..Total",
                       "Potatoes")]
```

```
View(finalCrops)
```

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## 5. Merge Nitrox & finalCrops datasets
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```
CropsNitrox <- cbind(nitrox, finalCrops)
```

```
View(CropsNitrox)
```

```
## 6. Summary of CropsNitrox dataset
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```
summary(CropsNitrox)
```

```
##      Year
##  Min.   :1971
## 1st Qu.:1983
##  Median:1994
##   Mean  :1994
## 3rd Qu.:2006
##   Max.   :2018
## Nitrous.oxide.emissions..thousand.metric.tons.of.CO2.equivalent.
##  Min.   :20500
## 1st Qu.:23230
##  Median:24595
##   Mean  :30026
## 3rd Qu.:38086
##   Max.   :46495
## Cereals..Total  Roots.and.Tubers..Total  Potatoes
##  Min.   :25234198  Min.   : 6824231  Min.   : 6824231
## 1st Qu.:30170408 1st Qu.:11184626 1st Qu.:11184626
##  Median:34084246 Median :27010622 Median :27010622
##   Mean  :32980603 Mean   :27794209 Mean   :27794209
## 3rd Qu.:35616846 3rd Qu.:39051280 3rd Qu.:39051280
##   Max.   :39568956 Max.    :54800486 Max.    :54800486
```

```
## 7. Export CropsNitrox dataset
```

```
write.csv(CropsNitrox,
          "C:\\Users\\USER\\Documents\\Desarrollador\\PYTHON\\2021-Python-exercises\\statistics-project\\",
          row.names = TRUE)
```