Tugas_Modul3

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10/4/2020

R Markdown

1

```
library(dslabs)
data(murders)
str(murders)
```

```
## 'data.frame':    51 obs. of  5 variables:
##  $ state     : chr  "Alabama" "Alaska" "Arizona" "Arkansas" ...
##  $ abb       : chr  "AL" "AK" "AZ" "AR" ...
##  $ region    : Factor w/ 4 levels "Northeast","South",..: 2 4 4 2 4 4 1 2
2 2 ...
##  $ population: num  4779736 710231 6392017 2915918 37253956 ...
##  $ total     : num  135 19 232 93 1257 ...
```

-> Jawabannya adalah C karna hasil dari str(murders) menampilkan Data berisi nama negara bagian,singkatan dari nama negara bagian,wilayah negara bagian,dan populasi negara bagian serta jumlah total pembunuhan pada tahun 2010.

2 Nama - nama kolom pada data frames murders adalah :

```
  names(murders)
```

```
## [1] "state"      "abb"        "region"     "population" "total"
```

3

```
  a = murders$abb
  print(a)
```

```
##  [1] "AL" "AK" "AZ" "AR" "CA" "CO" "CT" "DE" "DC" "FL" "GA" "HI" "ID" "IL"
"IN"
## [16] "IA" "KS" "KY" "LA" "ME" "MD" "MA" "MI" "MN" "MS" "MO" "MT" "NE" "NV"
"NH"
## [31] "NJ" "NM" "NY" "NC" "ND" "OH" "OK" "OR" "PA" "RI" "SC" "SD" "TN" "TX"
"UT"
## [46] "VT" "VA" "WA" "WV" "WI" "WY"
```

```
  class(a)
```

```
## [1] "character"
```

4

```
  b= murders[[2]]
  print(b)
```

```
##  [1] "AL" "AK" "AZ" "AR" "CA" "CO" "CT" "DE" "DC" "FL" "GA" "HI" "ID" "IL"
"IN"
## [16] "IA" "KS" "KY" "LA" "ME" "MD" "MA" "MI" "MN" "MS" "MO" "MT" "NE" "NV"
"NH"
## [31] "NJ" "NM" "NY" "NC" "ND" "OH" "OK" "OR" "PA" "RI" "SC" "SD" "TN" "TX"
"UT"
## [46] "VT" "VA" "WA" "WV" "WI" "WY"
```

```
  c = a == b
  print(c)
```

```
##  [1] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
TRUE
## [16] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
TRUE
## [31] TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE
TRUE
## [46] TRUE TRUE TRUE TRUE TRUE TRUE
```

-> Ya, A dan B nilainya sama

5

```
  length(levels(murders$region))
```

```
## [1] 4
```

-> Jumlah regionnya 4

6

```
  table(matrix(murders$region))
```

```
##
## North Central     Northeast         South          West
##            12             9            17            13
```