Modul3

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

Nomor 1

```
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 ...
```

a. Terdiri dari 51 negara.(Benar)
b. Data berisi tingkat pembunuhan pada 50 negara bagian dan DC.(Salah)
c. Data berisi Nama negara bagian, singkatan dari nama negara bagian, wilayah negara bagian, dan populasi negara bagian serta jumlah total pembunuhan pada tahun 2010.(Benar)
d. str tidak menunjukkan informasi yang relevan.(Salah)

Nomor 2

Nama Kolom yang digunakan dalam dataframe adalah state, abb, region, population, dan total.

Nomor 3

```
a <- murders$abb;
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(murders$abb)
```

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

Nomor 4

```
b <- matrix(a, );
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"
```

Variabel a dan b bernilai sama.

Nomor 5

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

```
## [1] "Northeast"     "South"         "North Central" "West"
```

```
## [1] 51
```

Nomor 6

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

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