

# Latihan 4

Alfain

10/6/2021

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

## Nomor 1

```
pop <- murders$population  
pop<-sort(pop)  
pop[1]
```

```
## [1] 563626
```

## Nomor 2

```
pop <- murders$population  
o <- order(pop)  
o[1]
```

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

## Nomor 3

```
which.min(murders$population)
```

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

## Nomor 4

```
i <- which.min(murders$population)

states <- murders$state

states[i]
```

```
## [1] "Wyoming"
```

## Nomor 5

```
temp <- c(35, 88, 42, 84, 81, 30)
city <- c("Beijing", "Lagos", "Paris", "Rio de Janeiro", "San Juan", "Toronto")
city_temps <- data.frame(name = city, temperature = temp)

states <- murders$state

ranks <- rank(murders$population)

my_df <- data.frame(name=states, ranks)
```

## Nomor 6

```
states <- murders$state

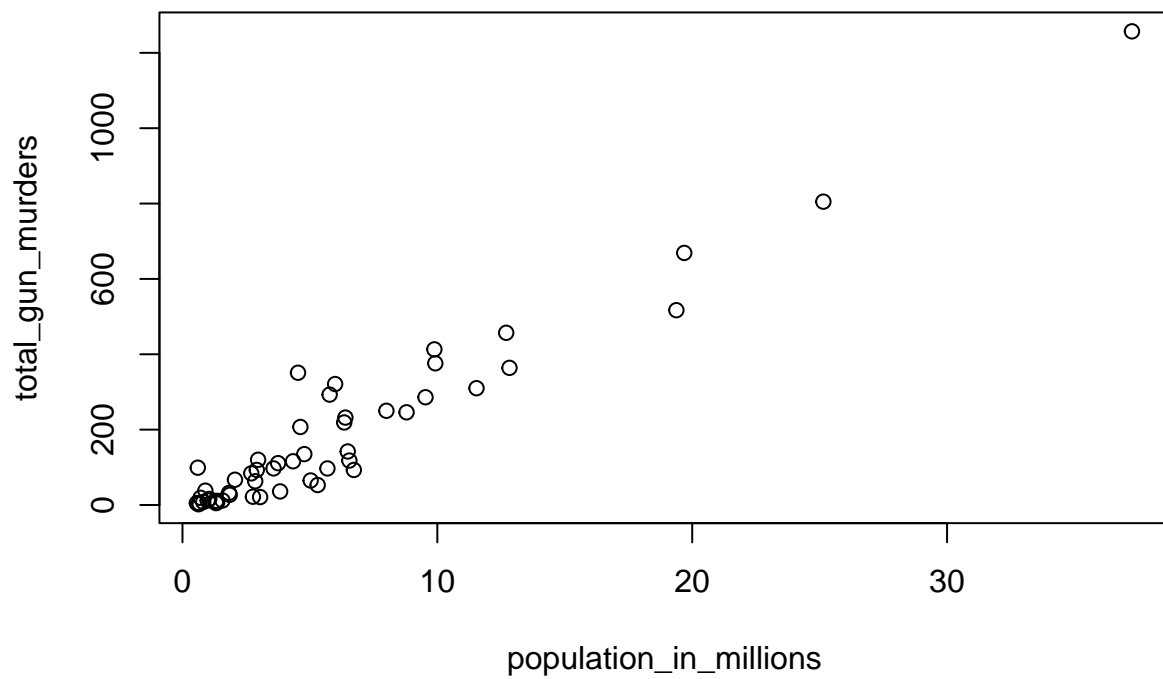
ranks <- rank(murders$population)

ind <- order(murders$population)

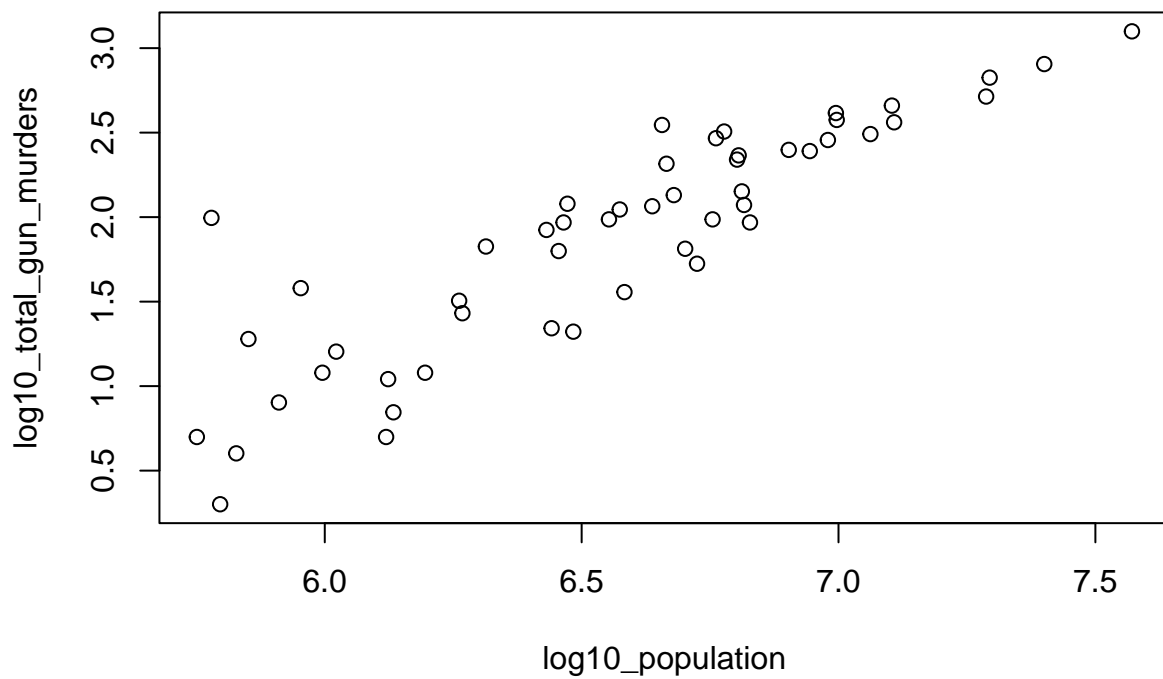
my_df<-data.frame(states = states[ind], ranks = ranks[ind])
```

## Nomor 7

```
population_in_millions <- murders$population/106
total_gun_murders <- murders$total
plot(population_in_millions, total_gun_murders)
```

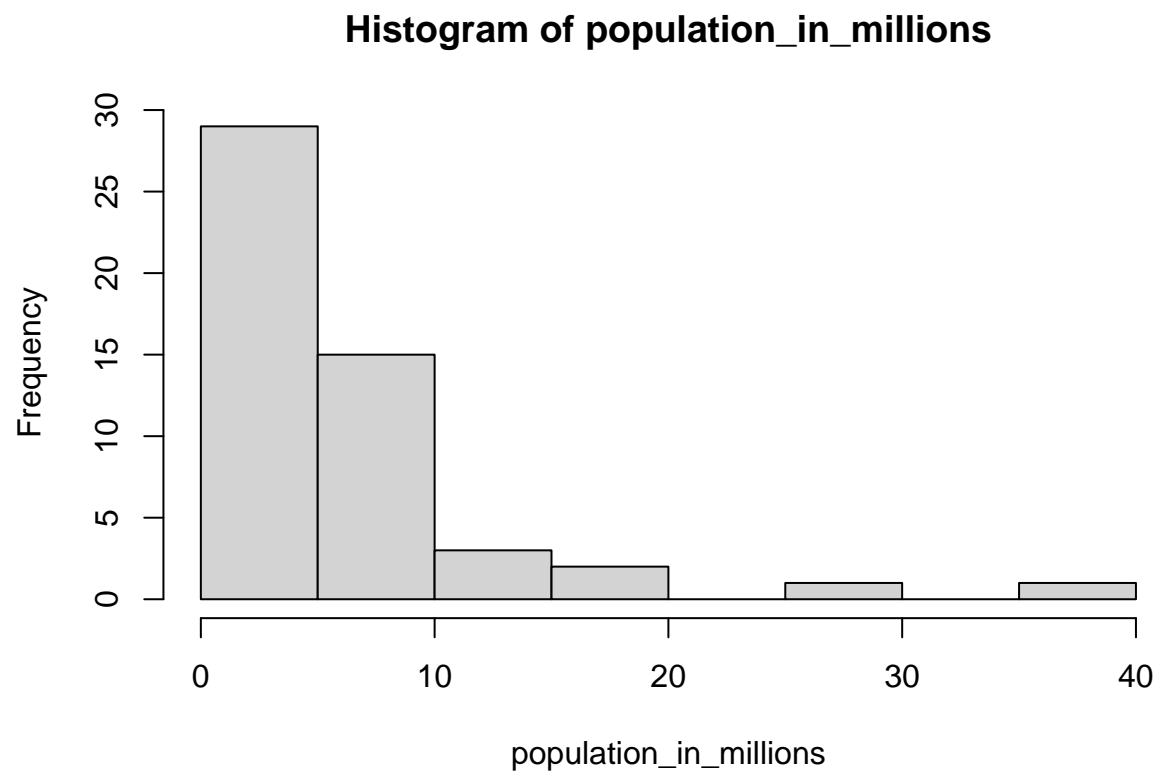


```
log10_population <- log10(murders$population)
log10_total_gun_murders <- log10(total_gun_murders)
plot(log10_population, log10_total_gun_murders)
```



## Nomor 8

```
population_in_millions <- murders$population/106  
hist(population_in_millions)
```



## Nomor 9

```
boxplot(population~region, data=murders)
```

