

Tugas Modul 7

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##nomor 1

```
library(dslabs)
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.1 --
```

```
## v ggplot2 3.3.5      v purrr  0.3.4
## v tibble  3.1.4      v dplyr  1.0.7
## v tidyr   1.1.4      v stringr 1.4.0
## v readr   2.0.2      v forcats 0.5.1
```

```
## -- Conflicts ----- tidyverse_conflicts() --
```

```
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
```

```
data(murders)
as_tibble(murders) %>% class()
```

```
## [1] "tbl_df"      "tbl"        "data.frame"
```

```
murders_tibble <- as_tibble(murders) %>% class()
```

##nomor 2

```
as_tibble(murders) %>% group_by(region)
```

```
## # A tibble: 51 x 5
## # Groups:   region [4]
##   state      abb region population total
##   <chr>      <chr> <fct>      <dbl> <dbl>
## 1 Alabama    AL    South      4779736 135
## 2 Alaska     AK    West        710231 19
## 3 Arizona    AZ    West      6392017 232
## 4 Arkansas   AR    South     2915918 93
## 5 California CA    West     37253956 1257
## 6 Colorado   CO    West     5029196 65
## 7 Connecticut CT    Northeast 3574097 97
## 8 Delaware   DE    South      897934 38
## 9 District of Columbia DC    South      601723 99
## 10 Florida    FL    South     19687653 669
## # ... with 41 more rows
```

```
##nomor 3 library(dslabs) library(dplyr) data(murders) murders %>% pull(population) %>% log %>%
mean %>% exp
```

```
##nomor 4
library(purrr)
compute_s_n <-function(n){
  a<- 1:n
  sum(a)
}
n <- 1:100
s_n <- sapply(n, compute_s_n)
compute_s_n <- function(n){
  a <- 1:n
  tibble(sum = sum(a))
}
s_n <- map_df(n, compute_s_n)
as_tibble(s_n)
```