Penanganan data tabular

Penanganan data csv

```
getwd() # tahu di mana posisi kita saat ini
```

'/home/ronggolawe/coding_repo/tutorialStatdasR/notebooks'

```
setwd("/home/ronggolawe/coding_repo/tutorialStatdasR/noteb
ooks") # mengatur posisi kita
```

```
getwd()
```

'/home/ronggolawe/coding_repo/tutorialStatdasR/notebooks'

```
# Membaca csv
data <- read.csv("../data/gaji.csv")
data</pre>
```

ID	NAMA	GAJI	JURUSAN
1	Petrus	1000000	Teologi
2	Matius	2000000	Filsafat
3	Markus	5000000	Meteorologi
4	Barnabas	10000000	Teknik Informatika
5	Thomas	20000000	Sistem Informasi
6	Ignatius	500000	Pendidikan Agama
7	Aisyah	25000000	Teknik Elektro
8	Supriyanto	1500000	Ilmu Perpustakaan

```
# menuliskan csv
head(mtcars)
```

	MPG	CYL	DISP	HP	DRAT	WT	QSEC	VS	AM	GEAR	CARB
Mazda RX4	21.0	6	160	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225	105	2.76	3.460	20.22	1	0	3	1

```
write.csv(mtcars, file = "../data/tes.csv")
class(data)
```

'data.frame'

```
# menuliskan csv dari data frame
c1 <- c(10,20,30,40,50)
c2 <- c('A', 'B', 'C', 'D', 'E')
df <- data.frame(c1,c2)
df</pre>
```

C1	C2
10	A
20	В
30	С
40	D
50	Е

```
write.csv(df, file = '../data/tes2.csv')
```

Untuk mengetahui secara lebih lanjut, perintahkan:

help(read.csv)

Penanganan data excel

library(readxl) # memuat pustaka readxl

```
excel_sheets("../data/contoh.xlsx")
```

- 1. 'Sheet1'
- 2. 'Sheet2'

```
# membaca file excel

df <- read_excel("../data/contoh.xlsx", sheet = "Sheet1")

df</pre>
```

NO	NAMA DEPAN	NAMA BELAKANG	JENIS KELAMIN	NEGARA	USIA	ID
1	Fernando	Sanchez	Pria	Meksiko	28	1562
2	Sandy	Herho	Pria	Indonesia	27	1582
3	Mara	Hashimoto	Wanita	Jepang	25	2587
4	Philip	Gent	Pria	Belgia	32	2468
5	Satya	Narendra	Pria	India	42	6548
6	Vincenza	Welland	Wanita	Amerika Serikat	40	3598
7	Rudy	Salim	Pria	Indonesia	65	7865
8	Gaston	Brumm	Pria	Amerika Serikat	24	2456
9	Etta	Hurn	Wanita	Britania Raya	34	1785

summary(df)

	No	Nama	Depan	Nama E	Belakang	Jenis
Kelami	n					
Min.	:1	Length	1:9	Length	1:9	
Length	:9					
1st Q	u.:3	Class	:character	Class	:character	Class
:chara	cter					
Media	n :5	Mode	:character	Mode	:character	Mode
:chara	cter					

```
Mean :5

3rd Qu.:7

Max. :9

Negara Usia ID

Length:9 Min. :24.00 Min. :1562

Class :character 1st Qu.:27.00 1st Qu.:1785

Mode :character Median :32.00 Median :2468

Mean :35.22 Mean :3383

3rd Qu.:40.00 3rd Qu.:3598

Max. :65.00 Max. :7865
```

str(df)

```
mean(df$Usia)
```

35.222222222222

```
df1 <- read_excel("../data/contoh.xlsx", sheet='Sheet2')
df1</pre>
```

BILANGAN	KUADRAT
1	1
2	4
3	9
4	16

```
BILANGAN KUADRAT
5 25
```

```
# menulis file excel
library(writexl)
```

```
c1 <- c(1:5)
c2 <- 6:10
df2 <- data.frame(c1,c2)
df2</pre>
```

C1	C2
1	6
2	7
3	8
4	9
5	10

```
write_xlsx(df2, "../data/tes.xlsx")
```