Data Transformation - Prepare Data

Mobile Vendor Market Share Thailand 2018 - 2022

source: https://gs.statcounter.com/vendor-market-share/mobile

```
# download library for prepare data
library(tidyverse)
```

```
# change woking directory
setwd("/data/notebook_files/phone_th/")
```

```
# read csv file
df <-
   list.files(path = "/data/notebook_files/phone_th", pattern = "*.csv") %>%
   map_df(~read_csv(.))
head(df)
```

									A tibble	e: 6 × 4	7		
Date	Samsung	Apple	Орро	Huawei	Mobicel	Unknown	Lava	Wiko	ВВК	•••	Other	Орр	Re
<chr></chr>	<dbl></dbl>		<dbl></dbl>	<dbl></dbl>	<(
2018- 01	32.64	16.72	10.61	5.76	4.53	3.94	4.47	2.45	3.60		0.07	NA	N.
2018- 02	32.59	16.30	10.67	6.10	4.98	4.11	4.40	2.45	3.51	•••	0.07	NA	N.
2018- 03	32.32	17.45	10.67	6.49	5.31	4.11	3.89	2.34	3.45	•••	0.07	NA	N.
2018- 04	31.72	19.36	11.39	6.85	5.54	3.21	3.09	2.62	3.35	•••	0.08	NA	N.
2018- 05	33.42	17.94	11.82	7.68	5.63	2.84	2.78	2.85	3.13	•••	0.07	NA	N.
2018- 06	32.56	17.29	12.68	8.08	6.08	2.89	2.73	3.00	3.07		0.07	NA	N.

```
Rows: 12 Columns: 38
```

```
— Column specification - Delimiter: ","
```

chr (1): Date

```
dbl (37): Samsung, Apple, Oppo, Huawei, Mobicel, Unknown, Lava, Wiko, BBK,
```

i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this mes

Rows: 12 Columns: 38

```
— Column specification ———
```

chr (1): Date

dbl (37): Samsung, Apple, Oppo, Huawei, Mobicel, Unknown, Wiko, Xiaomi, BBK

```
# change column name to lower
names(df) <- tolower(names(df))
head(df)</pre>
```

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А	ubi	oie.	О	X	4/

date	samsung	apple	oppo	huawei	mobicel	unknown	lava	wiko	bbk	 other	орр	rea
<chr></chr>	<dbl></dbl>	 <dbl></dbl>	<dbl></dbl>	<d< td=""></d<>								
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2018- 06	32.56	17.29	12.68	8.08	6.08	2.89	2.73	3.00	3.07	 0.07	NA	NA

A tibble: 6×3							
date	brand	market_share					
<chr></chr>	<chr></chr>	<dbl></dbl>					
2018-01	samsung	32.64					
2018-01	apple	16.72					
2018-01	орро	10.61					
2018-01	huawei	5.76					
2018-01	mobicel	4.53					
2018-01	unknown	3.94					

```
# check missing value
df %>%
  filter(!complete.cases(.)) %>%
  head(10)
```

A tibble: 10×3

date	brand	market_share		
<chr></chr>	<chr></chr>	<dbl></dbl>		
2018-01	орр	NA		
2018-01	realme	NA		
2018-01	tecno	NA		
2018-01	vivo	NA		
2018-01	honor	NA		
2018-01	razer	NA		
2018-01	infinex	NA		
2018-01	itel	NA		
2018-01	tcl	NA		
2018-02	opp	NA		

```
# if we delete all NA, it isn't affect any value. So I will delete all NA rows
df <- df %>%
  na.omit()
head(df)
```

A tibble: 6 × 3

export csv file
write.csv(df, "phone_th_clean.csv", row.names = F)