

# Data Transformation

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## 1 Data Frames

### 1.1 Data Frames

Data frames are the two-dimensional version of a list. They are far and away the most useful storage structure for data analysis.

#### Tip

You can think of a data frame as R's equivalent to the Excel spreadsheet because it stores data in a similar format.

You can create a data frame using the `data.frame()` function.

```
ex_dataframe <- data.frame(ID = c(1,2), Animal=c("dog","cat"))
ex_dataframe
```

	ID	Animal
1	1	dog
2	2	cat

### 1.2 Data Frame Properties

#### 1.2.1 Column Names

You can access the names of a data frame using the snippet `names([DATA FRAME NAME])`

```
names(ex_dataframe)
```

```
[1] "ID"      "Animal"
```

### 1.2.2 Details

You can determine the type of vectors for each column using the snippet `str([DATA FRAME NAME])`.

```
str(ex_dataframe)
```

```
'data.frame':  2 obs. of  2 variables:
 $ ID      : num  1 2
 $ Animal: chr  "dog" "cat"
```

### 1.2.3 Column Vectors

You can call a single column using the `$` argument in the following format: `DATAFRAME_NAME$COLUMN_NAME`

```
ex_dataframe$ID
```

```
[1] 1 2
```

```
ex_dataframe$Animal
```

```
[1] "dog" "cat"
```

```
ex_dataframe$ID * 5
```

```
[1]  5 10
```

### 1.2.4 Dimensions

The dimensions of the data frame can be calculated using the snippet: `dim([INSERT DATA FRAME NAME HERE])` command.

```
dim(ex_dataframe)
```

```
[1] 2 2
```

## 2 Importing Data

### 2.1 Importing Data

Data can be imported from external files, URLs, or from existing R packages.

#### Note

R can input a wide variety of data files with the help of some packages. Some commonly used data file extensions are `.csv` (most recommended), `.xlsx`, `.sav`, `.sas7bdat`, `.xml`, etc.

We will focus on importing CSVs or existing data from packages in this workshop.

### 2.2 Importing CSV files

The function `read.csv()` imports CSV files into R.

```
case_information<- read.csv("Case_Information.csv")
```

```
View(case_information)
```

①

① `View()` displays the data in a more interactive setting on R Studio.

### 2.3 Importing Data Frames from packages

Some packages have pre-loaded data sets. For example, the package `nycflights13` has multiple data sets such as `flights`. This dataset contains all 336,776 flights that departed from New York City in 2013. These could be accessed after installing the package.

#### 2.3.1 Method 1

We can access any function/file in a package using the `::` argument. For example, if we want to access `flights` in the `nycflights13` package without loading the package, we can use the following syntax:

```
nycflights13::flights
```

```
# A tibble: 336,776 x 19
  year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
  <int> <int> <int>   <int>         <int>         <dbl>   <int>         <int>
1  2013     1     1     517             515           2     830           819
2  2013     1     1     533             529           4     850           830
3  2013     1     1     542             540           2     923           850
4  2013     1     1     544             545          -1    1004          1022
5  2013     1     1     554             600          -6     812           837
6  2013     1     1     554             558          -4     740           728
7  2013     1     1     555             600          -5     913           854
8  2013     1     1     557             600          -3     709           723
9  2013     1     1     557             600          -3     838           846
10 2013     1     1     558             600          -2     753           745
# i 336,766 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>
```

### 2.3.2 Method 2

We can load `nycflights13` first, which gives us access to the `flights` data set.

```
library(nycflights13)
flights
```

```
# A tibble: 336,776 x 19
  year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
  <int> <int> <int>   <int>         <int>         <dbl>   <int>         <int>
1  2013     1     1     517             515           2     830           819
2  2013     1     1     533             529           4     850           830
3  2013     1     1     542             540           2     923           850
4  2013     1     1     544             545          -1    1004          1022
5  2013     1     1     554             600          -6     812           837
6  2013     1     1     554             558          -4     740           728
7  2013     1     1     555             600          -5     913           854
8  2013     1     1     557             600          -3     709           723
9  2013     1     1     557             600          -3     838           846
10 2013     1     1     558             600          -2     753           745
# i 336,766 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>
```

### Warning

Sometimes, two packages share the same names for functions with different purposes, leading to an event called *aliasing*. To avoid confusion, more experienced programmers use the `::` argument. For basic users, Method 2 should suffice.

## 3 dplyr

### 3.1 dplyr

The `dplyr` package, which is included in the `tidyverse`, includes functions that can greatly help you with data manipulation. In this package, you can operate on data rows, data columns, groups, or entire data frames.

To use `dplyr`, we need to import the `tidyverse` package.

```
library(tidyverse)
```

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.4      v readr      2.1.5
v forcats    1.0.0      v stringr    1.5.1
v ggplot2    3.5.2      v tibble     3.3.0
v lubridate  1.9.4      v tidyr      1.3.1
v purrr      1.1.0
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
```

## 4 Row Operations

### 4.1 Rows

Some of the most important `dplyr` functions that involve rows are the following: `filter()`, `arrange()`, and `distinct()`.

## 4.2 filter()

`filter()` allows you to keep rows based on the values of the columns. The syntax of `filter()` follows the format:

```
filter(DATAFRAME_NAME, BOOLEAN_CONDITION)
```

## 4.3 Boolean Operators

Boolean operations, are a system of logic that result in a `TRUE` or `FALSE` outcome. These operations combine operators like `AND (&)`, `OR (|)`, and `NOT (!)` to combine or modify search terms, expressions, or values, resulting in a true or false outcome.

### 4.3.1 Commonly used operators

Other commonly used operators include:

- The equality boolean operator `==`,
- The inequalities `<` `>` `<=` `>=`,
- The function `between()` in `dplyr`,
- `%in%`, which tests whether a particular value is in a vector,
- `grep` which looks for a pattern within character vectors.

### 4.3.2 Examples

```
x <- 1  
y <- 2  
  
x < y
```

```
[1] TRUE
```

```
x > y
```

```
[1] FALSE
```

```
x == y
```

```
[1] FALSE
```

```
cats <- c("Alice","Bob")  
"Alice" %in% cats
```

```
[1] TRUE
```

```
grepl("Al",cats)
```

```
[1] TRUE FALSE
```

## 4.4 Filtering Rows

We can filter rows of interest using one or a combination of boolean operations. Let's examine the `flights` data set.

### 4.4.1 Example 1

Suppose we want to find the flights that departed more than 120 minutes (two hours) late:

```
library(nycflights13)  
names(flights)
```

```
[1] "year"           "month"          "day"            "dep_time"  
[5] "sched_dep_time" "dep_delay"      "arr_time"       "sched_arr_time"  
[9] "arr_delay"      "carrier"        "flight"         "tailnum"  
[13] "origin"         "dest"           "air_time"       "distance"  
[17] "hour"           "minute"         "time_hour"
```

```
filter(flights, dep_delay > 120)
```

```
# A tibble: 9,723 x 19
```

	year	month	day	dep_time	sched_dep_time	dep_delay	arr_time	sched_arr_time
	<int>	<int>	<int>	<int>	<int>	<dbl>	<int>	<int>
1	2013	1	1	848	1835	853	1001	1950
2	2013	1	1	957	733	144	1056	853
3	2013	1	1	1114	900	134	1447	1222
4	2013	1	1	1540	1338	122	2020	1825

```

5 2013      1      1      1815              1325      290      2120              1542
6 2013      1      1      1842              1422      260      1958              1535
7 2013      1      1      1856              1645      131      2212              2005
8 2013      1      1      1934              1725      129      2126              1855
9 2013      1      1      1938              1703      155      2109              1823
10 2013      1      1      1942              1705      157      2124              1830
# i 9,713 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>

```

#### 4.4.2 Example 2

Suppose we want to examine the flights by carrier AA (American Airlines).

```
filter(flights, carrier=="AA")
```

```

# A tibble: 32,729 x 19
   year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
   <int> <int> <int>   <int>         <int>      <dbl>    <int>         <int>
1  2013     1     1     542           540         2      923           850
2  2013     1     1     558           600        -2      753           745
3  2013     1     1     559           600        -1      941           910
4  2013     1     1     606           610        -4      858           910
5  2013     1     1     623           610        13      920           915
6  2013     1     1     628           630        -2     1137          1140
7  2013     1     1     629           630        -1      824           810
8  2013     1     1     635           635         0     1028           940
9  2013     1     1     656           700        -4      854           850
10 2013     1     1     656           659        -3      949           959
# i 32,719 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>

```

#### 4.4.3 Example 3

Suppose we want to examine the flights by carrier AA (American Airlines) and are delayed by more than 120 minutes.



```
filter(flights, carrier=="AA" & dep_delay > 120)
```

```
# A tibble: 720 x 19
```

	year	month	day	dep_time	sched_dep_time	dep_delay	arr_time	sched_arr_time
	<int>	<int>	<int>	<int>	<int>	<dbl>	<int>	<int>
1	2013	1	1	1856	1645	131	2212	2005
2	2013	1	1	2205	1720	285	46	2040
3	2013	1	2	1607	1030	337	2003	1355
4	2013	1	2	1751	1450	181	2041	1755
5	2013	1	3	854	630	144	1057	810
6	2013	1	3	909	700	129	1103	850
7	2013	1	3	1758	1550	128	2240	2050
8	2013	1	3	1821	1530	171	2131	1910
9	2013	1	4	1305	1030	155	1452	1210
10	2013	1	4	1917	1700	137	2135	1950

```
# i 710 more rows
```

```
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,  
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,  
#   hour <dbl>, minute <dbl>, time_hour <dtm>
```

#### 4.4.4 Example 4

Suppose we want to examine the flights by carrier AA (American Airlines) OR flights that took off from the JFK airport.

```
filter(flights, carrier=="AA" | origin=="JFK")
```

```
# A tibble: 130,225 x 19
```

	year	month	day	dep_time	sched_dep_time	dep_delay	arr_time	sched_arr_time
	<int>	<int>	<int>	<int>	<int>	<dbl>	<int>	<int>
1	2013	1	1	542	540	2	923	850
2	2013	1	1	544	545	-1	1004	1022
3	2013	1	1	557	600	-3	838	846
4	2013	1	1	558	600	-2	753	745
5	2013	1	1	558	600	-2	849	851
6	2013	1	1	558	600	-2	853	856
7	2013	1	1	558	600	-2	924	917
8	2013	1	1	559	600	-1	941	910
9	2013	1	1	559	559	0	702	706
10	2013	1	1	606	610	-4	858	910

```
# i 130,215 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>
```

## 4.5 Exercise

Perform the following filters on the `case_information` data set.

### 4.5.1 Exercise 1

Create a data set “older” defined by all the cases aged 60 and above ( $\geq 60$ ).

### 4.5.2 Answer 1

```
older <- filter(case_information, age >= 60)
head(older)
```

	case_id	age	age_group	sex	date_announced	date_recovered	date_of_death
1	C387710	60	60 to 64	Female	2020-02-05	2020-01-31	<NA>
2	C498051	62	60 to 64	Male	2020-03-06	<NA>	2020-03-11
3	C557002	86	80+	Male	2020-03-08	<NA>	2020-03-14
4	C261144	68	65 to 69	Female	2020-03-09	<NA>	<NA>
5	C348794	70	70 to 74	Male	2020-03-09	<NA>	<NA>
6	C787672	72	70 to 74	Male	2020-03-09	2020-03-27	<NA>

  

	status	date_announced_as_removed	province	muni_city
1	Recovered	2020-02-05	Bohol	Panglao
2	Died	2020-03-12	Rizal	Cainta
3	Died	2020-03-15	Metropolitan Manila	Marikina
4	Recovered	2020-03-21	Metropolitan Manila	San Juan
5	Recovered	2020-03-21	Metropolitan Manila	San Juan
6	Recovered	2020-03-28	Metropolitan Manila	San Juan

  

	health_status	home_quarantined	date_of_onset_of_symptoms	pregnant
1	Recovered	No	2020-01-21	<NA>
2	Died	No	2020-02-25	<NA>
3	Died	No	2020-03-01	<NA>
4	Recovered	Yes	2020-03-02	<NA>
5	Recovered	Yes	2020-03-01	<NA>
6	Recovered	Yes	2020-03-07	<NA>

  

	region
1	
2	
3	
4	
5	
6	

```

1 Central Visayas (Region VII)
2     CALABARZON (Region IV-A)
3     Metropolitan Manila
4     Metropolitan Manila
5     Metropolitan Manila
6     Metropolitan Manila

```

### 4.5.3 Exercise 2

Create a data set “young\_males” defined by all the male cases aged 40 and below ( $\leq 40$ )

### 4.5.4 Answer 2

```
young_males <- filter(case_information, age <=40 & sex == "Male" )
```

## 4.6 arrange()

`arrange()` changes the order of the rows based on the value of the columns.

#### Tip

`arrange()` by default arranges in increasing order. The `desc()` can be used to arrange in descending order.

## 4.7 Sorting Rows

### 4.7.1 Example 1

We can get a sorted data frame based on month, day, and departure time in the data set `flights`, which we can assign as a separate variable.

```
head(arrange(flights,month,day,dep_time))
```

```

# A tibble: 6 x 19
   year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
   <int> <int> <int>   <int>         <int>         <dbl>   <int>         <int>
1  2013     1     1     517           515             2     830           819
2  2013     1     1     533           529             4     850           830

```

```

3 2013      1      1      542          540          2      923          850
4 2013      1      1      544          545         -1     1004         1022
5 2013      1      1      554          600         -6      812          837
6 2013      1      1      554          558         -4      740          728
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>

```

```

sorted_flights <- arrange(flights, month, day, dep_time)
head(sorted_flights)

```

```

# A tibble: 6 x 19
  year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
  <int> <int> <int>   <int>         <int>         <dbl>   <int>         <int>
1 2013     1     1     517           515           2     830           819
2 2013     1     1     533           529           4     850           830
3 2013     1     1     542           540           2     923           850
4 2013     1     1     544           545          -1    1004          1022
5 2013     1     1     554           600          -6     812           837
6 2013     1     1     554           558          -4     740           728
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>

```

## 4.7.2 Example 2

We can also sort different columns in different orders (ascending/descending)

```

latebirds <- arrange(flights, carrier, desc(dep_delay))
head(latebirds)

```

```

# A tibble: 6 x 19
  year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
  <int> <int> <int>   <int>         <int>         <dbl>   <int>         <int>
1 2013     2    16     757           1930          747    1013          2149
2 2013     7    24    1525           815          430    1808          1030
3 2013    11    27    1503           815          408    1628           952
4 2013     2    27    1529           845          404    1639          1015
5 2013     7     7    2228          1559          389     NA           1828
6 2013     6    25    1421           805          376    1602           950
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,

```

```
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>
```

### 4.7.3 Example 3

We can use both `filter()` and `arrange()` sequentially. Suppose we want to filter out delay times higher than 120 minutes then sort the flights in increasing order.

```
filterfirst <- filter(flights, dep_delay > 120)
arrange(filterfirst, dep_delay)
```

```
# A tibble: 9,723 x 19
   year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
   <int> <int> <int>   <int>         <int>         <dbl>   <int>         <int>
1  2013     1     1    2009             1808         121    2145             1942
2  2013     1    16    1121             920         121    1501             1245
3  2013     1    16    1419            1218         121    1623             1415
4  2013     1    16    2101            1900         121    2252             2057
5  2013     1    16    2141            1940         121     35             2249
6  2013     1    16    2256            2055         121    103             2250
7  2013     1    17     801             600         121    1002             801
8  2013     1    19    1930            1729         121    2229             2049
9  2013     1    20    2135            1934         121     33             2219
10 2013     1    22    2201            2000         121    2330             2147
# i 9,713 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>
```

## 4.8 Exercise

Use the `case_information` data set to perform the following exercises.

### 4.8.1 Exercise 1

Suppose we want to create a data set that includes cases who were female and listed as recovered and assign it to a variable named `fem_rec`.

#### 4.8.2 Answer 1

```
fem_rec <-filter(case_information,sex=="Female" & status=="Recovered")
fem_rec
```

	case_id	age	age_group	sex	date_announced	date_recovered	date_of_death
1	C404174	38	35 to 39	Female	2020-01-30	<NA>	<NA>
2	C387710	60	60 to 64	Female	2020-02-05	2020-01-31	<NA>
3	C261144	68	65 to 69	Female	2020-03-09	<NA>	<NA>
4	C325527	59	55 to 59	Female	2020-03-09	2020-04-06	<NA>
5	C777589	31	30 to 34	Female	2020-03-09	2020-03-24	<NA>
6	C817111	47	45 to 49	Female	2020-03-09	2020-03-26	<NA>
7	C985840	51	50 to 54	Female	2020-03-09	<NA>	<NA>
8	C501602	29	25 to 29	Female	2020-03-10	2020-03-24	<NA>
9	C767909	70	70 to 74	Female	2020-03-10	<NA>	<NA>
10	C870329	43	40 to 44	Female	2020-03-10	2020-04-01	<NA>
11	C393029	67	65 to 69	Female	2020-03-11	<NA>	<NA>
12	C807159	76	75 to 79	Female	2020-03-11	<NA>	<NA>
13	C817385	70	70 to 74	Female	2020-03-11	<NA>	<NA>
14	C130666	60	60 to 64	Female	2020-03-13	<NA>	<NA>
15	C606394	70	70 to 74	Female	2020-03-13	<NA>	<NA>
16	C975309	46	45 to 49	Female	2020-03-13	2020-03-30	<NA>
17	C277750	58	55 to 59	Female	2020-03-14	2020-04-05	<NA>
18	C349589	66	65 to 69	Female	2020-03-14	2020-03-10	<NA>
19	C485873	24	20 to 24	Female	2020-03-14	2020-04-03	<NA>
20	C514585	28	25 to 29	Female	2020-03-14	<NA>	<NA>
21	C515578	26	25 to 29	Female	2020-03-14	2020-04-05	<NA>
22	C537086	64	60 to 64	Female	2020-03-14	2020-03-24	<NA>
23	C619851	64	60 to 64	Female	2020-03-14	<NA>	<NA>
24	C681361	28	25 to 29	Female	2020-03-14	<NA>	<NA>
25	C720393	28	25 to 29	Female	2020-03-14	<NA>	<NA>
26	C807911	77	75 to 79	Female	2020-03-14	<NA>	<NA>
27	C120448	45	45 to 49	Female	2020-03-15	<NA>	<NA>
28	C142155	47	45 to 49	Female	2020-03-15	2020-03-22	<NA>
29	C219159	32	30 to 34	Female	2020-03-15	2020-04-04	<NA>
30	C282744	30	30 to 34	Female	2020-03-15	<NA>	<NA>
31	C426596	47	45 to 49	Female	2020-03-15	<NA>	<NA>
32	C473368	22	20 to 24	Female	2020-03-15	2020-03-23	<NA>
33	C629613	30	30 to 34	Female	2020-03-15	<NA>	<NA>
34	C636165	25	25 to 29	Female	2020-03-15	2020-04-14	<NA>
35	C732779	28	25 to 29	Female	2020-03-15	<NA>	<NA>
36	C921385	29	25 to 29	Female	2020-03-15	<NA>	<NA>

37	C993875	13	10 to 14	Female	2020-03-15	<NA>	<NA>
38	C211998	70	70 to 74	Female	2020-03-17	2020-03-24	<NA>
39	C241579	28	25 to 29	Female	2020-03-17	2020-04-27	<NA>
40	C304273	58	55 to 59	Female	2020-03-17	<NA>	<NA>
41	C343398	58	55 to 59	Female	2020-03-17	2020-04-02	<NA>
42	C344610	33	30 to 34	Female	2020-03-17	<NA>	<NA>
43	C387498	74	70 to 74	Female	2020-03-17	2020-03-23	<NA>
44	C449148	28	25 to 29	Female	2020-03-17	<NA>	<NA>
45	C480877	29	25 to 29	Female	2020-03-17	2020-04-04	<NA>
46	C540661	78	75 to 79	Female	2020-03-17	<NA>	<NA>
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4	Recovered	2020-04-08		Bulacan
5	Recovered	2020-03-25		Metropolitan Manila
6	Recovered	2020-03-28		Metropolitan Manila
7	Recovered	2020-03-22		Metropolitan Manila
8	Recovered	2020-03-25		Metropolitan Manila
9	Recovered	2020-05-02		Metropolitan Manila
10	Recovered	2020-04-05		Metropolitan Manila
11	Recovered	2020-04-06		Metropolitan Manila
12	Recovered	2020-03-21		Metropolitan Manila
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21	Recovered	2020-04-16		Cavite
22	Recovered	2020-03-25		Batangas



23	Recovered	2020-04-13	Metropolitan	Manila
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451	Recovered	2020-05-09	Rizal
452	Recovered	2020-05-06	Metropolitan Manila

453	Recovered	2020-05-07	Metropolitan	Manila
454	Recovered	2020-04-27	Metropolitan	Manila
455	Recovered	2020-04-15	Metropolitan	Manila
456	Recovered	2020-04-14		Cebu
457	Recovered	2020-05-12	Metropolitan	Manila
458	Recovered	2020-05-12	Metropolitan	Manila
459	Recovered	2020-05-05	Metropolitan	Manila
460	Recovered	2020-05-06	Metropolitan	Manila
461	Recovered	2020-05-02	Metropolitan	Manila
462	Recovered	2020-05-05	Metropolitan	Manila
463	Recovered	2020-04-29	Metropolitan	Manila
464	Recovered	2020-05-02		Cebu
465	Recovered	2020-05-07	Metropolitan	Manila
466	Recovered	2020-05-03		Tarlac
467	Recovered	2020-05-12		Laguna
468	Recovered	2020-05-02	Metropolitan	Manila
469	Recovered	2020-04-14		Cebu
470	Recovered	2020-05-05	Metropolitan	Manila
471	Recovered	2020-04-29	Metropolitan	Manila
472	Recovered	2020-05-13	Metropolitan	Manila
473	Recovered	2020-05-02	Metropolitan	Manila
474	Recovered	2020-04-16	Metropolitan	Manila
475	Recovered	2020-05-06	Metropolitan	Manila
476	Recovered	2020-04-22	Metropolitan	Manila
477	Recovered	2020-05-07	Metropolitan	Manila
478	Recovered	2020-05-08		Rizal
479	Recovered	2020-04-15	Metropolitan	Manila
480	Recovered	2020-04-22		Cagayan
481	Recovered	2020-05-07	Metropolitan	Manila
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483	Recovered	2020-05-08	Metropolitan	Manila
484	Recovered	2020-05-12	Metropolitan	Manila
485	Recovered	2020-04-16		Davao del Sur
486	Recovered	2020-04-16	Metropolitan	Manila
487	Recovered	2020-05-07	Metropolitan	Manila
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490	Recovered	2020-05-12	Metropolitan	Manila
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492	Recovered	2020-05-07	Metropolitan	Manila
493	Recovered	2020-04-14		Sultan Kudarat
494	Recovered	2020-05-07	Metropolitan	Manila
495	Recovered	2020-04-15	Metropolitan	Manila

496	Recovered	2020-05-13	Metropolitan Manila
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501	Recovered	2020-05-12	Cavite
502	Recovered	2020-04-17	Davao del Sur
503	Recovered	2020-05-03	Metropolitan Manila
504	Recovered	2020-04-20	Davao Oriental
505	Recovered	2020-05-12	Metropolitan Manila
506	Recovered	2020-05-07	Metropolitan Manila
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511	Recovered	2020-04-14	Metropolitan Manila
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523	Recovered	2020-05-07	Metropolitan Manila
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528	Recovered	2020-05-08	Metropolitan Manila
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591	Recovered	2020-05-08	Metropolitan Manila
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638	Recovered	2020-05-08	Metropolitan Manila
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642	Recovered	2020-05-01	Metropolitan Manila
643	Recovered	2020-04-16	Metropolitan Manila
644	Recovered	2020-04-21	Metropolitan Manila
645	Recovered	2020-05-09	Metropolitan Manila
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647	Recovered	2020-05-08	Batangas
648	Recovered	2020-05-09	Metropolitan Manila
649	Recovered	2020-05-09	Cavite
650	Recovered	2020-04-27	Iloilo
651	Recovered	2020-04-20	Metropolitan Manila
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654	Recovered	2020-05-09	Metropolitan Manila
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668	Recovered	2020-05-08	Metropolitan Manila
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670	Recovered	2020-05-09	Metropolitan Manila
671	Recovered	2020-04-24	Rizal
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678	Recovered	2020-05-09	Batangas
679	Recovered	2020-04-27	Metropolitan Manila
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681	Recovered	2020-05-10	Metropolitan Manila
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683	Recovered	2020-04-29	Lanao del Sur
684	Recovered	2020-05-08	Metropolitan Manila
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693	Recovered	2020-04-27	Metropolitan Manila
694	Recovered	2020-04-18	Zamboanga del Sur
695	Recovered	2020-05-10	Metropolitan Manila
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703	Recovered	2020-05-10	Batangas
704	Recovered	2020-04-28	Quezon
705	Recovered	2020-04-15	Metropolitan Manila
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711	Recovered	2020-04-24	Metropolitan Manila
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717	Recovered	2020-05-10	Zambales
718	Recovered	2020-05-10	Metropolitan Manila
719	Recovered	2020-04-13	Benguet
720	Recovered	2020-05-04	Metropolitan Manila
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728	Recovered	2020-05-14	Metropolitan Manila
729	Recovered	2020-04-25	Metropolitan Manila
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776	Recovered	2020-04-19	Camiguin
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945	Recovered	2020-04-24		Davao del Sur
946	Recovered	2020-04-27	Metropolitan	Manila
947	Recovered	2020-05-11	Metropolitan	Manila
948	Recovered	2020-05-15		Laguna
949	Recovered	2020-05-15		Cavite
950	Recovered	2020-05-02	Metropolitan	Manila
951	Recovered	2020-05-11		Cavite
952	Recovered	2020-05-09	Metropolitan	Manila
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963	Recovered	2020-05-15	Metropolitan	Manila
964	Recovered	2020-05-02	Metropolitan	Manila
965	Recovered	2020-05-13	Metropolitan	Manila
966	Recovered	2020-05-07	Metropolitan	Manila
967	Recovered	2020-05-13	Metropolitan	Manila
968	Recovered	2020-05-09		Davao del Sur

969	Recovered	2020-05-15	Metropolitan	Manila
970	Recovered	2020-05-13	Metropolitan	Manila
971	Recovered	2020-05-06		Cebu
972	Recovered	2020-05-15	Metropolitan	Manila
973	Recovered	2020-05-15	Metropolitan	Manila
974	Recovered	2020-05-06		Cebu
975	Recovered	2020-05-14	Metropolitan	Manila
976	Recovered	2020-05-05	Metropolitan	Manila
977	Recovered	2020-05-15	Metropolitan	Manila
978	Recovered	2020-05-06	Metropolitan	Manila
979	Recovered	2020-05-08		Bataan
980	Recovered	2020-05-13	Metropolitan	Manila
981	Recovered	2020-05-06		Cebu
982	Recovered	2020-05-15	Metropolitan	Manila
983	Recovered	2020-05-13	Metropolitan	Manila
984	Recovered	2020-05-07	Metropolitan	Manila
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987	Recovered	2020-05-08		Bataan
988	Recovered	2020-05-03	Metropolitan	Manila
989	Recovered	2020-05-08	Metropolitan	Manila
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991	Recovered	2020-05-11		<NA>
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994	Recovered	2020-05-08		Cavite
995	Recovered	2020-05-13		Bataan
996	Recovered	2020-05-07	Metropolitan	Manila
997	Recovered	2020-05-01		Davao del Sur
998	Recovered	2020-05-07		Laguna
999	Recovered	2020-05-08		Bataan
1000	Recovered	2020-05-13	Metropolitan	Manila
1001	Recovered	2020-05-08		Bataan
1002	Recovered	2020-05-13		Bataan
1003	Recovered	2020-05-01	Metropolitan	Manila
1004	Recovered	2020-05-13		Bataan
1005	Recovered	2020-05-07	Metropolitan	Manila
1006	Recovered	2020-05-14		Rizal
1007	Recovered	2020-05-07		Laguna
1008	Recovered	2020-05-15		Bataan
1009	Recovered	2020-05-15	Metropolitan	Manila
1010	Recovered	2020-05-08		Bataan
1011	Recovered	2020-04-27	Metropolitan	Manila

1012	Recovered	2020-05-13	Bataan
1013	Recovered	2020-05-15	Bataan
1014	Recovered	2020-05-13	Metropolitan Manila
1015	Recovered	2020-05-15	Zambales
1016	Recovered	2020-04-20	Metropolitan Manila
1017	Recovered	2020-05-02	Metropolitan Manila
1018	Recovered	2020-05-15	Metropolitan Manila
1019	Recovered	2020-05-08	Bataan
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1021	Recovered	2020-05-15	Laguna
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1024	Recovered	2020-04-28	Metropolitan Manila
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1027	Recovered	2020-05-13	Bataan
1028	Recovered	2020-05-14	Metropolitan Manila
1029	Recovered	2020-05-13	Bataan
1030	Recovered	2020-05-15	Metropolitan Manila
1031	Recovered	2020-05-14	Cebu
1032	Recovered	2020-05-13	Cebu
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1034	Recovered	2020-05-15	Metropolitan Manila
1035	Recovered	2020-05-13	Metropolitan Manila
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1037	Recovered	2020-05-15	Metropolitan Manila
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1039	Recovered	2020-05-14	Pampanga
1040	Recovered	2020-05-05	Metropolitan Manila
1041	Recovered	2020-05-13	Bataan
1042	Recovered	2020-05-15	Metropolitan Manila
1043	Recovered	2020-05-09	Metropolitan Manila
1044	Recovered	2020-05-13	Cebu
1045	Recovered	2020-05-15	Rizal
1046	Recovered	2020-04-27	Cavite
1047	Recovered	2020-05-06	Metropolitan Manila
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1050	Recovered	2020-04-27	Davao del Sur
1051	Recovered	2020-05-02	Metropolitan Manila
1052	Recovered	2020-05-15	Metropolitan Manila
1053	Recovered	2020-05-06	Iloilo
1054	Recovered	2020-05-15	Cavite



1055 Recovered	2020-05-15	Cavite
1056 Recovered	2020-05-08	Laguna
1057 Recovered	2020-05-05	Davao del Sur
1058 Recovered	2020-05-07	Metropolitan Manila
1059 Recovered	2020-05-14	Metropolitan Manila
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1067 Recovered	2020-05-08	Metropolitan Manila
1068 Recovered	2020-05-13	Metropolitan Manila
1069 Recovered	2020-05-15	Laguna
1070 Recovered	2020-05-13	Cebu
1071 Recovered	2020-05-04	Davao del Sur
1072 Recovered	2020-05-13	Metropolitan Manila
1073 Recovered	2020-05-07	Metropolitan Manila
1074 Recovered	2020-05-15	Metropolitan Manila
1075 Recovered	2020-05-09	Davao del Sur
1076 Recovered	2020-05-14	Metropolitan Manila
1077 Recovered	2020-05-13	Metropolitan Manila
1078 Recovered	2020-05-11	Benguet
1079 Recovered	2020-05-13	Metropolitan Manila
1080 Recovered	2020-05-13	Metropolitan Manila
1081 Recovered	2020-05-15	Rizal
1082 Recovered	2020-05-15	Metropolitan Manila
1083 Recovered	2020-05-09	Davao del Sur
1084 Recovered	2020-05-14	Cebu
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1093 Recovered	2020-05-15	Metropolitan Manila
1094 Recovered	2020-05-11	Benguet
1095 Recovered	2020-05-13	Marinduque
1096 Recovered	2020-05-13	Benguet
1097 Recovered	2020-05-15	Metropolitan Manila

1098	Recovered	2020-05-13	Benguet
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1100	Recovered	2020-05-13	Benguet
1101	Recovered	2020-04-28	Metropolitan Manila
1102	Recovered	2020-05-13	Oriental Mindoro
1103	Recovered	2020-05-11	Negros Occidental
1104	Recovered	2020-05-14	Benguet
1105	Recovered	2020-05-15	Benguet
1106	Recovered	2020-05-09	Bulacan
1107	Recovered	2020-05-13	Cebu
1108	Recovered	2020-05-13	Benguet
1109	Recovered	2020-04-29	Rizal
1110	Recovered	2020-05-14	Cebu
1111	Recovered	2020-04-29	Metropolitan Manila
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1122	Recovered	2020-05-13	Cebu
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1125	Recovered	2020-05-11	Davao del Sur
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3	San Juan	Recovered	Yes
4	San Jose del Monte City	Recovered	Yes
5	San Juan	Recovered	Yes
6	Pasig City	Recovered	No
7	San Juan	Recovered	No
8	San Juan	Recovered	Yes

9	Marikina	Recovered	Yes
10	Marikina	Recovered	Yes
11	Manila	Recovered	Yes
12	Makati City	Recovered	No
13	Quezon City	Recovered	Yes
14	Quezon City	Recovered	Yes
15	San Juan	Recovered	Yes
16	Makati City	Recovered	Yes
17	Quezon City	Recovered	Yes
18	San Juan	Recovered	Yes
19	Manila	Recovered	No
20	Quezon City	Recovered	Yes
21	Dasmariñas	Recovered	Yes
22	Lemery	Recovered	No
23	Manila	Recovered	No
24	Taguig	Recovered	No
25	Mandaluyong	Recovered	Yes
26	Quezon City	Recovered	No
27	Dasmariñas	Recovered	Yes
28	Parañaque	Recovered	Yes
29	Pasay City	Recovered	Yes
30	Quezon City	Recovered	No
31	Quezon City	Recovered	Yes
32	Pantukan	Recovered	Yes
33	Mandaluyong	Recovered	No
34	Parañaque	Recovered	Yes
35	Cainta	Recovered	Yes
36	Marikina	Recovered	No
37	Quezon City	Recovered	Yes
38	Mandaluyong	Recovered	Yes
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44	Kalookan City	Recovered	Yes
45	Makati City	Recovered	No
46	Muntinlupa	Recovered	Yes
47	Pasig City	Recovered	Yes
48	Pasig City	Recovered	No
49	Quezon City	Recovered	Yes
50	Las Piñas	Recovered	No
51	Manila	Recovered	Yes

52	Batangas City	Recovered	Yes
53	Quezon City	Recovered	Yes
54	San Juan	Recovered	Yes
55	San Juan	Recovered	No
56	San Juan	Recovered	Yes
57	Pasig City	Recovered	Yes
58	Quezon City	Recovered	Yes
59	San Juan	Recovered	No
60	Antipolo City	Recovered	Yes
61	Makati City	Recovered	No
62	Valenzuela	Recovered	No
63	Mandaluyong	Recovered	Yes
64	Pasig City	Recovered	Yes
65	Manila	Recovered	Yes
66	Quezon City	Recovered	Yes
67	Mandaluyong	Recovered	Yes
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70	Davao City	Recovered	Yes
71	Quezon City	Recovered	Yes
72	Makati City	Recovered	No
73	San Juan	Recovered	No
74	Quezon City	Recovered	Yes
75	Manila	Recovered	Yes
76	Pasig City	Recovered	No
77	Quezon City	Recovered	No
78	Caba	Recovered	Yes
79	Manila	Recovered	Yes
80	Rosario	Recovered	No
81	San Juan	Recovered	Yes
82	Las Piñas	Recovered	Yes
83	Quezon City	Recovered	No
84	Pasig City	Recovered	Yes
85	Mandaluyong	Recovered	Yes
86	San Juan	Recovered	Yes
87	Pateros	Recovered	No
88	Santa Maria	Recovered	Yes
89	San Juan	Recovered	<NA>
90	Makati City	Recovered	No
91	Manila	Recovered	Yes
92	Marikina	Recovered	Yes
93	Quezon City	Recovered	Yes
94	Pasig City	Recovered	Yes

95	Las Piñas	Recovered	Yes
96	Mandaluyong	Recovered	No
97	Las Piñas	Recovered	Yes
98	Batangas City	Recovered	No
99	Parañaque	Recovered	Yes
100	Quezon City	Recovered	Yes
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108	Pasay City	Recovered	Yes
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110	Makati City	Recovered	Yes
111	San Juan	Recovered	No
112	Bulacan	Recovered	Yes
113	Manila	Recovered	No
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121	San Jose del Monte City	Recovered	No
122	Baguio City	Recovered	Yes
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132	Catarman	Recovered	Yes
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134	Parañaque	Recovered	Yes
135	Makati City	Recovered	Yes
136	Quezon City	Recovered	Yes
137	Biñan	Recovered	Yes

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139	Makati City	Recovered	Yes
140	San Juan	Recovered	Yes
141	Manila	Recovered	No
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147	Quezon City	Recovered	Yes
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149	San Juan	Recovered	Yes
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151	Parañaque	Recovered	Yes
152	Taguig	Recovered	No
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154	Mandaluyong	Recovered	Yes
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166	Quezon City	Recovered	No
167	Parañaque	Recovered	Yes
168	Makati City	Recovered	No
169	San Juan	Recovered	No
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173	Pasay City	Recovered	Yes
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176	Baguio City	Recovered	Yes
177	Dasmariñas	Recovered	No
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183	San Juan	Recovered	Yes
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195	Quezon City	Recovered	Yes
196	Bayambang	Recovered	Yes
197	Quezon City	Recovered	No
198	San Mateo	Recovered	No
199	Makati City	Recovered	Yes
200	Manila	Recovered	No
201	San Juan	Recovered	No
202	Makati City	Recovered	Yes
203	Quezon City	Recovered	Yes
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213	Makati City	Recovered	Yes
214	Alicia	Recovered	Yes
215	San Juan	Recovered	Yes
216	Pasig City	Recovered	Yes
217	Parañaque	Recovered	Yes
218	San Juan	Recovered	No
219	Parañaque	Recovered	No
220	Quezon City	Recovered	Yes
221	Miagao	Recovered	Yes
222	Manila	Recovered	Yes
223	Calapan City	Recovered	Yes

224	Makati City	Recovered	Yes
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236	Pasay City	Recovered	Yes
237	Mandaluyong	Recovered	Yes
238	Cabanatuan City	Recovered	Yes
239	Makati City	Recovered	Yes
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241	Quezon City	Recovered	No
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258	Taytay	Recovered	Yes
259	Makati City	Recovered	Yes
260	Tuguegarao City	Recovered	Yes
261	Maragondon	Recovered	Yes
262	Mandaluyong	Recovered	Yes
263	Quezon City	Recovered	Yes
264	Muntinlupa	Recovered	Yes
265	Mandaluyong	Recovered	Yes
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270	Pasig City	Recovered	<NA>
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274	Makati City	Recovered	Yes
275	Imus	Recovered	Yes
276	Taguig	Recovered	Yes
277	Quezon City	Recovered	Yes
278	Muntinlupa	Recovered	No
279	Manila	Recovered	Yes
280	Quezon City	Recovered	Yes
281	Manila	Recovered	Yes
282	Davao City	Recovered	Yes
283	Quezon City	Recovered	Yes
284	Davao City	Recovered	Yes
285	Kalookan City	Recovered	Yes
286	Quezon City	Recovered	Yes
287	Makati City	Recovered	Yes
288	Kalookan City	Recovered	Yes
289	Manila	Recovered	Yes
290	Gapan City	Recovered	No
291	Quezon City	Recovered	Yes
292	Marikina	Recovered	Yes
293	Las Piñas	Recovered	No
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312	Quezon City	Recovered	No
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320	Quezon City	Recovered	No
321	Binangonan	Recovered	Yes
322	Makati City	Recovered	Yes
323	Manila	Recovered	Yes
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326	Davao City	Recovered	Yes
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330	Cainta	Recovered	Yes
331	Alfonso Castaneda	Recovered	Yes
332	Makati City	Recovered	No
333	San Miguel	Recovered	Yes
334	Kalookan City	Recovered	Yes
335	Mandaluyong	Recovered	Yes
336	Quezon City	Recovered	Yes
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343	Parañaque	Recovered	Yes
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366	Quezon City	Recovered	Yes
367	Quezon City	Recovered	No
368	Davao City	Recovered	Yes
369	Quezon City	Recovered	Yes
370	San Juan	Recovered	Yes
371	Makati City	Recovered	Yes
372	Pasig City	Recovered	No
373	Makati City	Recovered	Yes
374	Parañaque	Recovered	Yes
375	Makati City	Recovered	Yes
376	Lipa City	Recovered	Yes
377	Parañaque	Recovered	Yes
378	Las Piñas	Recovered	Yes
379	Makati City	Recovered	Yes
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393	Torrijos	Recovered	Yes
394	Kalookan City	Recovered	Yes
395	Marikina	Recovered	No

396	Manila	Recovered	No
397	Manila	Recovered	Yes
398	Pasay City	Recovered	No
399	Quezon City	Recovered	Yes
400	Parañaque	Recovered	Yes
401	Makati City	Recovered	Yes
402	Taguig	Recovered	Yes
403	Cebu City	Recovered	Yes
404	Quezon City	Recovered	Yes
405	Cebu City	Recovered	Yes
406	Tanauan	Recovered	Yes
407	Makati City	Recovered	No
408	San Juan	Recovered	<NA>
409	Marikina	Recovered	Yes
410	Manila	Recovered	Yes
411	Quezon City	Recovered	Yes
412	Marikina	Recovered	Yes
413	Taytay	Recovered	Yes
414	Makati City	Recovered	Yes
415	Makati City	Recovered	Yes
416	San Juan	Recovered	Yes
417	Mandaluyong	Recovered	Yes
418	General Trias	Recovered	Yes
419	Tagudin	Recovered	Yes
420	Mandaluyong	Recovered	No
421	Asingan	Recovered	No
422	Manila	Recovered	Yes
423	Pasay City	Recovered	Yes
424	Makati City	Recovered	Yes
425	Quezon City	Recovered	Yes
426	Malabon	Recovered	No
427	Balanga City	Recovered	Yes
428	Quezon City	Recovered	Yes
429	Makati City	Recovered	Yes
430	San Pedro	Recovered	Yes
431	Manila	Recovered	Yes
432	Tanauan	Recovered	Yes
433	Mandaluyong	Recovered	<NA>
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435	Quezon City	Recovered	Yes
436	San Pedro	Recovered	Yes
437	Marikina	Recovered	Yes
438	Quezon City	Recovered	No

439	Bacoor	Recovered	Yes
440	Zamboanga City	Recovered	Yes
441	San Juan	Recovered	Yes
442	Nasugbu	Recovered	Yes
443	Makati City	Recovered	Yes
444	Quezon City	Recovered	No
445	Pasig City	Recovered	Yes
446	Cordoba	Recovered	Yes
447	Parañaque	Recovered	Yes
448	Makati City	Recovered	Yes
449	Lipa City	Recovered	Yes
450	Pasig City	Recovered	Yes
451	Antipolo City	Recovered	Yes
452	Muntinlupa	Recovered	No
453	Quezon City	Recovered	Yes
454	Manila	Recovered	Yes
455	Makati City	Recovered	Yes
456	Cebu City	Recovered	Yes
457	Las Piñas	Recovered	No
458	Quezon City	Recovered	Yes
459	Quezon City	Recovered	Yes
460	Las Piñas	Recovered	Yes
461	Pasay City	Recovered	Yes
462	San Juan	Recovered	No
463	Quezon City	Recovered	Yes
464	Cebu City	Recovered	No
465	Quezon City	Recovered	No
466	Concepcion	Recovered	No
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469	Cebu City	Recovered	Yes
470	Manila	Recovered	No
471	Quezon City	Recovered	Yes
472	Quezon City	Recovered	No
473	Makati City	Recovered	No
474	Makati City	Recovered	Yes
475	Quezon City	Recovered	Yes
476	Parañaque	Recovered	Yes
477	Makati City	Recovered	Yes
478	Cainta	Recovered	<NA>
479	Manila	Recovered	Yes
480	Tuao	Recovered	Yes
481	Makati City	Recovered	No

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483	Pasay City	Recovered	Yes
484	Valenzuela	Recovered	No
485	Davao City	Recovered	Yes
486	Taguig	Recovered	Yes
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491	Quezon City	Recovered	Yes
492	Manila	Recovered	Yes
493	Lutayan	Recovered	Yes
494	Quezon City	Recovered	No
495	Quezon City	Recovered	Yes
496	Muntinlupa	Recovered	No
497	Quezon City	Recovered	Yes
498	Muntinlupa	Recovered	Yes
499	Mandaluyong	Recovered	Yes
500	Muntinlupa	Recovered	Yes
501	Tanza	Recovered	No
502	Davao City	Recovered	Yes
503	Parañaque	Recovered	Yes
504	Mati City	Recovered	Yes
505	Pasay City	Recovered	Yes
506	Pasay City	Recovered	No
507	Cainta	Recovered	No
508	Parañaque	Recovered	No
509	Mandaluyong	Recovered	No
510	Taguig	Recovered	No
511	Makati City	Recovered	Yes
512	Rodriguez	Recovered	No
513	Muntinlupa	Recovered	No
514	Quezon City	Recovered	Yes
515	Taguig	Recovered	Yes
516	Calamba	Recovered	No
517	Taguig	Recovered	Yes
518	Quezon City	Recovered	Yes
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539	San Juan	Recovered	Yes
540	Makati City	Recovered	Yes
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542	Pasig City	Recovered	Yes
543	Manila	Recovered	No
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548	Manila	Recovered	No
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550	Muntinlupa	Recovered	Yes
551	Quezon City	Recovered	No
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553	Quezon City	Recovered	No
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563	Agoo	Recovered	Yes
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565	Cainta	Recovered	Yes
566	Parañaque	Recovered	Yes
567	Taguig	Recovered	Yes

568	Quezon City	Recovered	Yes
569	Parañaque	Recovered	Yes
570	Makati City	Recovered	Yes
571	San Jose del Monte City	Recovered	Yes
572	Taguig	Recovered	Yes
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577	Quezon City	Recovered	Yes
578	Manila	Recovered	Yes
579	Kalookan City	Recovered	Yes
580	Bacoor	Recovered	Yes
581	Quezon City	Recovered	Yes
582	San Juan	Recovered	No
583	San Jose del Monte City	Recovered	No
584	Makati City	Recovered	Yes
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597	San Fernando	Recovered	Yes
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599	Pasay City	Recovered	Yes
600	Makati City	Recovered	Yes
601	Pateros	Recovered	Yes
602	Las Piñas	Recovered	Yes
603	Kalibo	Recovered	Yes
604	Manila	Recovered	Yes
605	Makati City	Recovered	Yes
606	Manila	Recovered	Yes
607	Quezon City	Recovered	Yes
608	Taguig	Recovered	Yes
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610	Malabon	Recovered	Yes



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613	Manila	Recovered	Yes
614	Manila	Recovered	Yes
615	Quezon City	Recovered	Yes
616	Bacoor	Recovered	Yes
617	Parañaque	Recovered	Yes
618	Quezon City	Recovered	Yes
619	Cainta	Recovered	Yes
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654	Manila	Recovered	Yes
655	Navotas	Recovered	No
656	Guimbal	Recovered	Yes
657	Pasig City	Recovered	Yes
658	Manila	Recovered	Yes
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660	Davao City	Recovered	Yes
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665	Kalookan City	Recovered	Yes
666	Quezon City	Recovered	Yes
667	Davao City	Recovered	Yes
668	San Juan	Recovered	Yes
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670	Mandaluyong	Recovered	No
671	Cainta	Recovered	Yes
672	Pasig City	Recovered	No
673	Quezon City	Recovered	No
674	<NA>	Recovered	Yes
675	Davao City	Recovered	No
676	Parañaque	Recovered	Yes
677	Manila	Recovered	<NA>
678	Lipa City	Recovered	No
679	Parañaque	Recovered	Yes
680	Davao City	Recovered	No
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682	Manila	Recovered	Yes
683	Marawi City	Recovered	No
684	Mandaluyong	Recovered	Yes
685	Mandaluyong	Recovered	<NA>
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688	Muntinlupa	Recovered	Yes
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693	Manila	Recovered	Yes
694	Zamboanga City	Recovered	Yes
695	Quezon City	Recovered	Yes
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700	Castillejos	Recovered	No
701	Marikina	Recovered	Yes
702	Baliuag	Recovered	Yes
703	Bauan	Recovered	Yes
704	Lucena City	Recovered	Yes
705	Pasig City	Recovered	No
706	Quezon City	Recovered	Yes
707	Cainta	Recovered	Yes
708	Manila	Recovered	Yes
709	Manila	Recovered	Yes
710	Tayabas City	Recovered	Yes
711	Marikina	Recovered	Yes
712	Manila	Recovered	Yes
713	Taguig	Recovered	Yes
714	Quezon City	Recovered	Yes
715	Quezon City	Recovered	Yes
716	Muntinlupa	Recovered	Yes
717	Olongapo City	Recovered	No
718	Taguig	Recovered	Yes
719	Bokod	Recovered	No
720	Quezon City	Recovered	No
721	Quezon City	Recovered	Yes
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725	Parañaque	Recovered	Yes
726	San Pedro	Recovered	Yes
727	Taguig	Recovered	No
728	Quezon City	Recovered	Yes
729	Parañaque	Recovered	Yes
730	Baguio City	Recovered	Yes
731	Las Piñas	Recovered	Yes
732	Cabuyao	Recovered	No
733	Muntinlupa	Recovered	Yes
734	Cebu City	Recovered	Yes
735	Parañaque	Recovered	No
736	Lipa City	Recovered	Yes
737	Kalookan City	Recovered	Yes
738	Imus	Recovered	Yes
739	Muntinlupa	Recovered	No

740	Valenzuela	Recovered	Yes
741	Makati City	Recovered	Yes
742	Quezon City	Recovered	Yes
743	Mandaluyong	Recovered	Yes
744	Antipolo City	Recovered	Yes
745	Tanauan	Recovered	Yes
746	Lapu-Lapu City	Recovered	No
747	Parañaque	Recovered	Yes
748	Pasig City	Recovered	Yes
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751	Cainta	Recovered	Yes
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753	Mandaluyong	Recovered	No
754	Las Piñas	Recovered	Yes
755	Manila	Recovered	Yes
756	Taytay	Recovered	Yes
757	Santa Maria	Recovered	Yes
758	Manila	Recovered	Yes
759	Marikina	Recovered	Yes
760	Taguig	Recovered	Yes
761	Bacoor	Recovered	Yes
762	Mariveles	Recovered	No
763	Nagcarlan	Recovered	Yes
764	Quezon City	Recovered	No
765	Kalookan City	Recovered	No
766	Rodriguez	Recovered	No
767	Taguig	Recovered	Yes
768	Malabon	Recovered	Yes
769	Taguig	Recovered	Yes
770	Pasig City	Recovered	Yes
771	La Trinidad	Recovered	No
772	Manila	Recovered	Yes
773	Tarangnan	Recovered	Yes
774	Parañaque	Recovered	Yes
775	Kidapawan City	Recovered	Yes
776	Mahinog	Recovered	Yes
777	Quezon City	Recovered	No
778	Tanauan	Recovered	<NA>
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782	Cotabato City	Recovered	Yes

783	Quezon City	Recovered	No
784	Tarangnan	Recovered	Yes
785	Makati City	Recovered	Yes
786	Manila	Recovered	Yes
787	Valenzuela	Recovered	Yes
788	Kalookan City	Recovered	No
789	Batangas City	Recovered	Yes
790	Quezon City	Recovered	No
791	Mandaluyong	Recovered	Yes
792	Davao City	Recovered	No
793	Quezon City	Recovered	Yes
794	Bacoor	Recovered	No
795	Cavinti	Recovered	Yes
796	Guiguinto	Recovered	Yes
797	Baguio City	Recovered	No
798	Parañaque	Recovered	No
799	Kalookan City	Recovered	No
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801	Las Piñas	Recovered	Yes
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827	Antipolo City	Recovered	Yes
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830	Barotac Nuevo	Recovered	No
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842	Valenzuela	Recovered	Yes
843	Manila	Recovered	Yes
844	Pasig City	Recovered	No
845	San Fernando	Recovered	Yes
846	San Pedro	Recovered	Yes
847	Las Piñas	Recovered	Yes
848	Quezon City	Recovered	Yes
849	Marikina	Recovered	Yes
850	Parañaque	Recovered	Yes
851	Baguio City	Recovered	No
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858	Angeles City	Recovered	Yes
859	Parañaque	Recovered	Yes
860	Quezon City	Recovered	Yes
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863	Angeles City	Recovered	Yes
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883	Valenzuela	Recovered	Yes
884	Parañaque	Recovered	Yes
885	Marikina	Recovered	Yes
886	Lumban	Recovered	Yes
887	Santo Tomas	Recovered	Yes
888	Taguig	Recovered	Yes
889	Quezon City	Recovered	Yes
890	Liliw	Recovered	Yes
891	Parañaque	Recovered	No
892	Manila	Recovered	Yes
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907	Balanga City	Recovered	Yes
908	Los Baños	Recovered	Yes
909	Muntinlupa	Recovered	Yes
910	Taguig	Recovered	Yes
911	Kalookan City	Recovered	Yes

912	Cauayan	Recovered	Yes
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925	Makati City	Recovered	Yes
926	Quezon City	Recovered	Yes
927	Pasay City	Recovered	Yes
928	Las Piñas	Recovered	Yes
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945	Davao City	Recovered	Yes
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951	Imus	Recovered	Yes
952	Las Piñas	Recovered	<NA>
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987	Balanga City	Recovered	Yes
988	Parañaque	Recovered	Yes
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995	Balanga City	Recovered	<NA>
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997	Davao City	Recovered	No

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1001	Balanga City	Recovered	Yes
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1004	Orani	Recovered	Yes
1005	Muntinlupa	Recovered	Yes
1006	Binangonan	Recovered	Yes
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142	CALABARZON (Region IV-A)
143	Autonomous Region of Muslim Mindanao (ARMM)
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189	Ilocos Region (Region I)
190	Metropolitan Manila
191	Metropolitan Manila
192	Metropolitan Manila
193	Zamboanga Peninsula (Region IX)
194	Metropolitan Manila
195	Metropolitan Manila

196	Ilocos Region (Region I)
197	Metropolitan Manila
198	CALABARZON (Region IV-A)
199	Metropolitan Manila
200	Metropolitan Manila
201	Metropolitan Manila
202	Metropolitan Manila
203	Metropolitan Manila
204	Metropolitan Manila
205	Metropolitan Manila
206	Metropolitan Manila
207	Metropolitan Manila
208	Metropolitan Manila
209	Metropolitan Manila
210	Metropolitan Manila
211	Metropolitan Manila
212	Metropolitan Manila
213	Metropolitan Manila
214	Cagayan Valley (Region II)
215	Metropolitan Manila
216	Metropolitan Manila
217	Metropolitan Manila
218	Metropolitan Manila
219	Metropolitan Manila
220	Metropolitan Manila
221	Western Visayas (Region VI)
222	Metropolitan Manila
223	MIMAROPA (Region IV-B)
224	Metropolitan Manila
225	Metropolitan Manila
226	Metropolitan Manila
227	Metropolitan Manila
228	Metropolitan Manila
229	Cagayan Valley (Region II)
230	Metropolitan Manila
231	Metropolitan Manila
232	Metropolitan Manila
233	Metropolitan Manila
234	Metropolitan Manila
235	Metropolitan Manila
236	Metropolitan Manila
237	Metropolitan Manila
238	Central Luzon (Region III)

239	Metropolitan Manila
240	Metropolitan Manila
241	Metropolitan Manila
242	Metropolitan Manila
243	Metropolitan Manila
244	Metropolitan Manila
245	Metropolitan Manila
246	Metropolitan Manila
247	Metropolitan Manila
248	Metropolitan Manila
249	Metropolitan Manila
250	Cagayan Valley (Region II)
251	Metropolitan Manila
252	Metropolitan Manila
253	Metropolitan Manila
254	Metropolitan Manila
255	Metropolitan Manila
256	Metropolitan Manila
257	Metropolitan Manila
258	CALABARZON (Region IV-A)
259	Metropolitan Manila
260	Cagayan Valley (Region II)
261	CALABARZON (Region IV-A)
262	Metropolitan Manila
263	Metropolitan Manila
264	Metropolitan Manila
265	Metropolitan Manila
266	Metropolitan Manila
267	Metropolitan Manila
268	Metropolitan Manila
269	Cagayan Valley (Region II)
270	Metropolitan Manila
271	Metropolitan Manila
272	Metropolitan Manila
273	Metropolitan Manila
274	Metropolitan Manila
275	CALABARZON (Region IV-A)
276	Metropolitan Manila
277	Metropolitan Manila
278	Metropolitan Manila
279	Metropolitan Manila
280	Metropolitan Manila
281	Metropolitan Manila

282	Davao Region (Region XI)
283	Metropolitan Manila
284	Davao Region (Region XI)
285	Metropolitan Manila
286	Metropolitan Manila
287	Metropolitan Manila
288	Metropolitan Manila
289	Metropolitan Manila
290	Central Luzon (Region III)
291	Metropolitan Manila
292	Metropolitan Manila
293	Metropolitan Manila
294	Metropolitan Manila
295	Metropolitan Manila
296	Metropolitan Manila
297	Metropolitan Manila
298	Metropolitan Manila
299	CALABARZON (Region IV-A)
300	CALABARZON (Region IV-A)
301	Metropolitan Manila
302	Metropolitan Manila
303	Metropolitan Manila
304	CALABARZON (Region IV-A)
305	Metropolitan Manila
306	Metropolitan Manila
307	Metropolitan Manila
308	CALABARZON (Region IV-A)
309	Metropolitan Manila
310	Metropolitan Manila
311	Metropolitan Manila
312	Metropolitan Manila
313	Metropolitan Manila
314	Metropolitan Manila
315	Metropolitan Manila
316	Metropolitan Manila
317	Metropolitan Manila
318	Metropolitan Manila
319	Metropolitan Manila
320	Metropolitan Manila
321	CALABARZON (Region IV-A)
322	Metropolitan Manila
323	Metropolitan Manila
324	Metropolitan Manila

325	Metropolitan Manila
326	Davao Region (Region XI)
327	Metropolitan Manila
328	Metropolitan Manila
329	Metropolitan Manila
330	CALABARZON (Region IV-A)
331	Cagayan Valley (Region II)
332	Metropolitan Manila
333	Central Luzon (Region III)
334	Metropolitan Manila
335	Metropolitan Manila
336	Metropolitan Manila
337	Metropolitan Manila
338	Metropolitan Manila
339	Metropolitan Manila
340	Metropolitan Manila
341	Cordillera Administrative Region (CAR)
342	Western Visayas (Region VI)
343	Metropolitan Manila
344	Metropolitan Manila
345	Metropolitan Manila
346	Metropolitan Manila
347	Metropolitan Manila
348	Cagayan Valley (Region II)
349	Metropolitan Manila
350	Metropolitan Manila
351	Metropolitan Manila
352	Metropolitan Manila
353	Metropolitan Manila
354	Metropolitan Manila
355	CALABARZON (Region IV-A)
356	Metropolitan Manila
357	Northern Mindanao (Region X)
358	Metropolitan Manila
359	Davao Region (Region XI)
360	CALABARZON (Region IV-A)
361	Metropolitan Manila
362	Metropolitan Manila
363	Metropolitan Manila
364	Metropolitan Manila
365	Metropolitan Manila
366	Metropolitan Manila
367	Metropolitan Manila

368	Davao Region (Region XI)
369	Metropolitan Manila
370	Metropolitan Manila
371	Metropolitan Manila
372	Metropolitan Manila
373	Metropolitan Manila
374	Metropolitan Manila
375	Metropolitan Manila
376	CALABARZON (Region IV-A)
377	Metropolitan Manila
378	Metropolitan Manila
379	Metropolitan Manila
380	Central Visayas (Region VII)
381	Central Visayas (Region VII)
382	Metropolitan Manila
383	<NA>
384	Metropolitan Manila
385	Metropolitan Manila
386	Metropolitan Manila
387	Metropolitan Manila
388	Metropolitan Manila
389	Metropolitan Manila
390	Metropolitan Manila
391	Metropolitan Manila
392	Metropolitan Manila
393	MIMAROPA (Region IV-B)
394	Metropolitan Manila
395	Metropolitan Manila
396	Metropolitan Manila
397	Metropolitan Manila
398	Metropolitan Manila
399	Metropolitan Manila
400	Metropolitan Manila
401	Metropolitan Manila
402	Metropolitan Manila
403	Central Visayas (Region VII)
404	Metropolitan Manila
405	Central Visayas (Region VII)
406	CALABARZON (Region IV-A)
407	Metropolitan Manila
408	Metropolitan Manila
409	Metropolitan Manila
410	Metropolitan Manila



411	Metropolitan Manila
412	Metropolitan Manila
413	CALABARZON (Region IV-A)
414	Metropolitan Manila
415	Metropolitan Manila
416	Metropolitan Manila
417	Metropolitan Manila
418	CALABARZON (Region IV-A)
419	Ilocos Region (Region I)
420	Metropolitan Manila
421	Ilocos Region (Region I)
422	Metropolitan Manila
423	Metropolitan Manila
424	Metropolitan Manila
425	Metropolitan Manila
426	Metropolitan Manila
427	Central Luzon (Region III)
428	Metropolitan Manila
429	Metropolitan Manila
430	CALABARZON (Region IV-A)
431	Metropolitan Manila
432	CALABARZON (Region IV-A)
433	Metropolitan Manila
434	Metropolitan Manila
435	Metropolitan Manila
436	CALABARZON (Region IV-A)
437	Metropolitan Manila
438	Metropolitan Manila
439	CALABARZON (Region IV-A)
440	Zamboanga Peninsula (Region IX)
441	Metropolitan Manila
442	CALABARZON (Region IV-A)
443	Metropolitan Manila
444	Metropolitan Manila
445	Metropolitan Manila
446	Central Visayas (Region VII)
447	Metropolitan Manila
448	Metropolitan Manila
449	CALABARZON (Region IV-A)
450	Metropolitan Manila
451	CALABARZON (Region IV-A)
452	Metropolitan Manila
453	Metropolitan Manila

454	Metropolitan Manila
455	Metropolitan Manila
456	Central Visayas (Region VII)
457	Metropolitan Manila
458	Metropolitan Manila
459	Metropolitan Manila
460	Metropolitan Manila
461	Metropolitan Manila
462	Metropolitan Manila
463	Metropolitan Manila
464	Central Visayas (Region VII)
465	Metropolitan Manila
466	Central Luzon (Region III)
467	CALABARZON (Region IV-A)
468	Metropolitan Manila
469	Central Visayas (Region VII)
470	Metropolitan Manila
471	Metropolitan Manila
472	Metropolitan Manila
473	Metropolitan Manila
474	Metropolitan Manila
475	Metropolitan Manila
476	Metropolitan Manila
477	Metropolitan Manila
478	CALABARZON (Region IV-A)
479	Metropolitan Manila
480	Cagayan Valley (Region II)
481	Metropolitan Manila
482	Metropolitan Manila
483	Metropolitan Manila
484	Metropolitan Manila
485	Davao Region (Region XI)
486	Metropolitan Manila
487	Metropolitan Manila
488	Metropolitan Manila
489	CALABARZON (Region IV-A)
490	Metropolitan Manila
491	Metropolitan Manila
492	Metropolitan Manila
493	SOCCSKSARGEN (Region XII)
494	Metropolitan Manila
495	Metropolitan Manila
496	Metropolitan Manila

497	Metropolitan Manila
498	Metropolitan Manila
499	Metropolitan Manila
500	Metropolitan Manila
501	CALABARZON (Region IV-A)
502	Davao Region (Region XI)
503	Metropolitan Manila
504	Davao Region (Region XI)
505	Metropolitan Manila
506	Metropolitan Manila
507	CALABARZON (Region IV-A)
508	Metropolitan Manila
509	Metropolitan Manila
510	Metropolitan Manila
511	Metropolitan Manila
512	CALABARZON (Region IV-A)
513	Metropolitan Manila
514	Metropolitan Manila
515	Metropolitan Manila
516	CALABARZON (Region IV-A)
517	Metropolitan Manila
518	Metropolitan Manila
519	Metropolitan Manila
520	Metropolitan Manila
521	Metropolitan Manila
522	Cagayan Valley (Region II)
523	Metropolitan Manila
524	Metropolitan Manila
525	Metropolitan Manila
526	Metropolitan Manila
527	Davao Region (Region XI)
528	Metropolitan Manila
529	Metropolitan Manila
530	Ilocos Region (Region I)
531	Metropolitan Manila
532	Ilocos Region (Region I)
533	Ilocos Region (Region I)
534	Metropolitan Manila
535	Metropolitan Manila
536	<NA>
537	Metropolitan Manila
538	Metropolitan Manila
539	Metropolitan Manila

540	Metropolitan Manila
541	Metropolitan Manila
542	Metropolitan Manila
543	Metropolitan Manila
544	Ilocos Region (Region I)
545	Metropolitan Manila
546	<NA>
547	Cagayan Valley (Region II)
548	Metropolitan Manila
549	Central Luzon (Region III)
550	Metropolitan Manila
551	Metropolitan Manila
552	Metropolitan Manila
553	Metropolitan Manila
554	Metropolitan Manila
555	Metropolitan Manila
556	CALABARZON (Region IV-A)
557	Metropolitan Manila
558	Metropolitan Manila
559	CALABARZON (Region IV-A)
560	Ilocos Region (Region I)
561	Metropolitan Manila
562	MIMAROPA (Region IV-B)
563	Ilocos Region (Region I)
564	Metropolitan Manila
565	CALABARZON (Region IV-A)
566	Metropolitan Manila
567	Metropolitan Manila
568	Metropolitan Manila
569	Metropolitan Manila
570	Metropolitan Manila
571	Central Luzon (Region III)
572	Metropolitan Manila
573	<NA>
574	Metropolitan Manila
575	Metropolitan Manila
576	CALABARZON (Region IV-A)
577	Metropolitan Manila
578	Metropolitan Manila
579	Metropolitan Manila
580	CALABARZON (Region IV-A)
581	Metropolitan Manila
582	Metropolitan Manila

583	Central Luzon (Region III)
584	Metropolitan Manila
585	Metropolitan Manila
586	Metropolitan Manila
587	Ilocos Region (Region I)
588	Metropolitan Manila
589	Metropolitan Manila
590	Zamboanga Peninsula (Region IX)
591	Metropolitan Manila
592	Metropolitan Manila
593	<NA>
594	Metropolitan Manila
595	Davao Region (Region XI)
596	Metropolitan Manila
597	Central Luzon (Region III)
598	Metropolitan Manila
599	Metropolitan Manila
600	Metropolitan Manila
601	Metropolitan Manila
602	Metropolitan Manila
603	Western Visayas (Region VI)
604	Metropolitan Manila
605	Metropolitan Manila
606	Metropolitan Manila
607	Metropolitan Manila
608	Metropolitan Manila
609	CALABARZON (Region IV-A)
610	Metropolitan Manila
611	Metropolitan Manila
612	Metropolitan Manila
613	Metropolitan Manila
614	Metropolitan Manila
615	Metropolitan Manila
616	CALABARZON (Region IV-A)
617	Metropolitan Manila
618	Metropolitan Manila
619	CALABARZON (Region IV-A)
620	Metropolitan Manila
621	Metropolitan Manila
622	Metropolitan Manila
623	Central Luzon (Region III)
624	Metropolitan Manila
625	Metropolitan Manila

626	Metropolitan Manila
627	<NA>
628	Metropolitan Manila
629	Metropolitan Manila
630	Metropolitan Manila
631	<NA>
632	Metropolitan Manila
633	Metropolitan Manila
634	Metropolitan Manila
635	Metropolitan Manila
636	Metropolitan Manila
637	Metropolitan Manila
638	Metropolitan Manila
639	Metropolitan Manila
640	Metropolitan Manila
641	Metropolitan Manila
642	Metropolitan Manila
643	Metropolitan Manila
644	Metropolitan Manila
645	Metropolitan Manila
646	Metropolitan Manila
647	CALABARZON (Region IV-A)
648	Metropolitan Manila
649	CALABARZON (Region IV-A)
650	Western Visayas (Region VI)
651	Metropolitan Manila
652	Western Visayas (Region VI)
653	Western Visayas (Region VI)
654	Metropolitan Manila
655	Metropolitan Manila
656	Western Visayas (Region VI)
657	Metropolitan Manila
658	Metropolitan Manila
659	Metropolitan Manila
660	Davao Region (Region XI)
661	Davao Region (Region XI)
662	Metropolitan Manila
663	<NA>
664	Metropolitan Manila
665	Metropolitan Manila
666	Metropolitan Manila
667	Davao Region (Region XI)
668	Metropolitan Manila

669	Metropolitan Manila
670	Metropolitan Manila
671	CALABARZON (Region IV-A)
672	Metropolitan Manila
673	Metropolitan Manila
674	<NA>
675	Davao Region (Region XI)
676	Metropolitan Manila
677	Metropolitan Manila
678	CALABARZON (Region IV-A)
679	Metropolitan Manila
680	Davao Region (Region XI)
681	Metropolitan Manila
682	Metropolitan Manila
683	Autonomous Region of Muslim Mindanao (ARMM)
684	Metropolitan Manila
685	Metropolitan Manila
686	Metropolitan Manila
687	Metropolitan Manila
688	Metropolitan Manila
689	Metropolitan Manila
690	Metropolitan Manila
691	Metropolitan Manila
692	Metropolitan Manila
693	Metropolitan Manila
694	Zamboanga Peninsula (Region IX)
695	Metropolitan Manila
696	Metropolitan Manila
697	Metropolitan Manila
698	Metropolitan Manila
699	Metropolitan Manila
700	Central Luzon (Region III)
701	Metropolitan Manila
702	Central Luzon (Region III)
703	CALABARZON (Region IV-A)
704	CALABARZON (Region IV-A)
705	Metropolitan Manila
706	Metropolitan Manila
707	CALABARZON (Region IV-A)
708	Metropolitan Manila
709	Metropolitan Manila
710	CALABARZON (Region IV-A)
711	Metropolitan Manila

712	Metropolitan Manila
713	Metropolitan Manila
714	Metropolitan Manila
715	Metropolitan Manila
716	Metropolitan Manila
717	Central Luzon (Region III)
718	Metropolitan Manila
719	Cordillera Administrative Region (CAR)
720	Metropolitan Manila
721	Metropolitan Manila
722	Metropolitan Manila
723	Metropolitan Manila
724	Metropolitan Manila
725	Metropolitan Manila
726	CALABARZON (Region IV-A)
727	Metropolitan Manila
728	Metropolitan Manila
729	Metropolitan Manila
730	Cordillera Administrative Region (CAR)
731	Metropolitan Manila
732	CALABARZON (Region IV-A)
733	Metropolitan Manila
734	Central Visayas (Region VII)
735	Metropolitan Manila
736	CALABARZON (Region IV-A)
737	Metropolitan Manila
738	CALABARZON (Region IV-A)
739	Metropolitan Manila
740	Metropolitan Manila
741	Metropolitan Manila
742	Metropolitan Manila
743	Metropolitan Manila
744	CALABARZON (Region IV-A)
745	CALABARZON (Region IV-A)
746	Central Visayas (Region VII)
747	Metropolitan Manila
748	Metropolitan Manila
749	Metropolitan Manila
750	CALABARZON (Region IV-A)
751	CALABARZON (Region IV-A)
752	Metropolitan Manila
753	Metropolitan Manila
754	Metropolitan Manila



755	Metropolitan Manila
756	CALABARZON (Region IV-A)
757	Central Luzon (Region III)
758	Metropolitan Manila
759	Metropolitan Manila
760	Metropolitan Manila
761	CALABARZON (Region IV-A)
762	Central Luzon (Region III)
763	CALABARZON (Region IV-A)
764	Metropolitan Manila
765	Metropolitan Manila
766	CALABARZON (Region IV-A)
767	Metropolitan Manila
768	Metropolitan Manila
769	Metropolitan Manila
770	Metropolitan Manila
771	Cordillera Administrative Region (CAR)
772	Metropolitan Manila
773	Eastern Visayas (Region VIII)
774	Metropolitan Manila
775	SOCCSKSARGEN (Region XII)
776	Northern Mindanao (Region X)
777	Metropolitan Manila
778	CALABARZON (Region IV-A)
779	Metropolitan Manila
780	Davao Region (Region XI)
781	Metropolitan Manila
782	Autonomous Region of Muslim Mindanao (ARMM)
783	Metropolitan Manila
784	Eastern Visayas (Region VIII)
785	Metropolitan Manila
786	Metropolitan Manila
787	Metropolitan Manila
788	Metropolitan Manila
789	CALABARZON (Region IV-A)
790	Metropolitan Manila
791	Metropolitan Manila
792	Davao Region (Region XI)
793	Metropolitan Manila
794	CALABARZON (Region IV-A)
795	CALABARZON (Region IV-A)
796	Central Luzon (Region III)
797	Cordillera Administrative Region (CAR)

798	Metropolitan Manila
799	Metropolitan Manila
800	Metropolitan Manila
801	Metropolitan Manila
802	Metropolitan Manila
803	Metropolitan Manila
804	Metropolitan Manila
805	Metropolitan Manila
806	Metropolitan Manila
807	Metropolitan Manila
808	Metropolitan Manila
809	Metropolitan Manila
810	Metropolitan Manila
811	Central Luzon (Region III)
812	Metropolitan Manila
813	Metropolitan Manila
814	Central Luzon (Region III)
815	Metropolitan Manila
816	Cagayan Valley (Region II)
817	Metropolitan Manila
818	Metropolitan Manila
819	Metropolitan Manila
820	Metropolitan Manila
821	Metropolitan Manila
822	Metropolitan Manila
823	Metropolitan Manila
824	CALABARZON (Region IV-A)
825	Metropolitan Manila
826	Metropolitan Manila
827	CALABARZON (Region IV-A)
828	Metropolitan Manila
829	CALABARZON (Region IV-A)
830	Western Visayas (Region VI)
831	Metropolitan Manila
832	Metropolitan Manila
833	Metropolitan Manila
834	Western Visayas (Region VI)
835	Metropolitan Manila
836	Central Luzon (Region III)
837	Ilocos Region (Region I)
838	Metropolitan Manila
839	Metropolitan Manila
840	Metropolitan Manila

841	Metropolitan Manila
842	Metropolitan Manila
843	Metropolitan Manila
844	Metropolitan Manila
845	Central Luzon (Region III)
846	CALABARZON (Region IV-A)
847	Metropolitan Manila
848	Metropolitan Manila
849	Metropolitan Manila
850	Metropolitan Manila
851	Cordillera Administrative Region (CAR)
852	Metropolitan Manila
853	Metropolitan Manila
854	CALABARZON (Region IV-A)
855	Metropolitan Manila
856	Metropolitan Manila
857	CALABARZON (Region IV-A)
858	Central Luzon (Region III)
859	Metropolitan Manila
860	Metropolitan Manila
861	Metropolitan Manila
862	Cagayan Valley (Region II)
863	Central Luzon (Region III)
864	Central Luzon (Region III)
865	Central Luzon (Region III)
866	Central Luzon (Region III)
867	Metropolitan Manila
868	CALABARZON (Region IV-A)
869	Metropolitan Manila
870	Metropolitan Manila
871	Metropolitan Manila
872	Metropolitan Manila
873	CALABARZON (Region IV-A)
874	Metropolitan Manila
875	Metropolitan Manila
876	Metropolitan Manila
877	Metropolitan Manila
878	Metropolitan Manila
879	Central Visayas (Region VII)
880	Central Luzon (Region III)
881	Metropolitan Manila
882	CALABARZON (Region IV-A)
883	Metropolitan Manila

884	Metropolitan Manila
885	Metropolitan Manila
886	CALABARZON (Region IV-A)
887	CALABARZON (Region IV-A)
888	Metropolitan Manila
889	Metropolitan Manila
890	CALABARZON (Region IV-A)
891	Metropolitan Manila
892	Metropolitan Manila
893	Metropolitan Manila
894	Metropolitan Manila
895	Metropolitan Manila
896	Metropolitan Manila
897	CALABARZON (Region IV-A)
898	CALABARZON (Region IV-A)
899	Metropolitan Manila
900	Central Luzon (Region III)
901	Metropolitan Manila
902	Metropolitan Manila
903	Metropolitan Manila
904	Central Luzon (Region III)
905	Metropolitan Manila
906	Metropolitan Manila
907	Central Luzon (Region III)
908	CALABARZON (Region IV-A)
909	Metropolitan Manila
910	Metropolitan Manila
911	Metropolitan Manila
912	Cagayan Valley (Region II)
913	Central Luzon (Region III)
914	Metropolitan Manila
915	CALABARZON (Region IV-A)
916	Metropolitan Manila
917	Metropolitan Manila
918	Metropolitan Manila
919	Central Luzon (Region III)
920	Central Luzon (Region III)
921	Metropolitan Manila
922	Metropolitan Manila
923	Metropolitan Manila
924	CALABARZON (Region IV-A)
925	Metropolitan Manila
926	Metropolitan Manila

927	Metropolitan Manila
928	Metropolitan Manila
929	Metropolitan Manila
930	Central Luzon (Region III)
931	Metropolitan Manila
932	<NA>
933	Bicol Region (Region V)
934	Metropolitan Manila
935	Metropolitan Manila
936	Metropolitan Manila
937	Metropolitan Manila
938	Metropolitan Manila
939	Bicol Region (Region V)
940	CALABARZON (Region IV-A)
941	Metropolitan Manila
942	CALABARZON (Region IV-A)
943	Metropolitan Manila
944	Central Luzon (Region III)
945	Davao Region (Region XI)
946	Metropolitan Manila
947	Metropolitan Manila
948	CALABARZON (Region IV-A)
949	CALABARZON (Region IV-A)
950	Metropolitan Manila
951	CALABARZON (Region IV-A)
952	Metropolitan Manila
953	CALABARZON (Region IV-A)
954	<NA>
955	Metropolitan Manila
956	Metropolitan Manila
957	Metropolitan Manila
958	Metropolitan Manila
959	<NA>
960	Metropolitan Manila
961	Metropolitan Manila
962	Metropolitan Manila
963	Metropolitan Manila
964	Metropolitan Manila
965	Metropolitan Manila
966	Metropolitan Manila
967	Metropolitan Manila
968	Davao Region (Region XI)
969	Metropolitan Manila

970	Metropolitan Manila
971	Central Visayas (Region VII)
972	Metropolitan Manila
973	Metropolitan Manila
974	Central Visayas (Region VII)
975	Metropolitan Manila
976	Metropolitan Manila
977	Metropolitan Manila
978	Metropolitan Manila
979	Central Luzon (Region III)
980	Metropolitan Manila
981	Central Visayas (Region VII)
982	Metropolitan Manila
983	Metropolitan Manila
984	Metropolitan Manila
985	Metropolitan Manila
986	Metropolitan Manila
987	Central Luzon (Region III)
988	Metropolitan Manila
989	Metropolitan Manila
990	Central Luzon (Region III)
991	<NA>
992	Metropolitan Manila
993	Central Luzon (Region III)
994	CALABARZON (Region IV-A)
995	Central Luzon (Region III)
996	Metropolitan Manila
997	Davao Region (Region XI)
998	CALABARZON (Region IV-A)
999	Central Luzon (Region III)
1000	Metropolitan Manila
1001	Central Luzon (Region III)
1002	Central Luzon (Region III)
1003	Metropolitan Manila
1004	Central Luzon (Region III)
1005	Metropolitan Manila
1006	CALABARZON (Region IV-A)
1007	CALABARZON (Region IV-A)
1008	Central Luzon (Region III)
1009	Metropolitan Manila
1010	Central Luzon (Region III)
1011	Metropolitan Manila
1012	Central Luzon (Region III)

1013	Central Luzon (Region III)
1014	Metropolitan Manila
1015	Central Luzon (Region III)
1016	Metropolitan Manila
1017	Metropolitan Manila
1018	Metropolitan Manila
1019	Central Luzon (Region III)
1020	Metropolitan Manila
1021	CALABARZON (Region IV-A)
1022	Metropolitan Manila
1023	Metropolitan Manila
1024	Metropolitan Manila
1025	Central Luzon (Region III)
1026	Metropolitan Manila
1027	Central Luzon (Region III)
1028	Metropolitan Manila
1029	Central Luzon (Region III)
1030	Metropolitan Manila
1031	Central Visayas (Region VII)
1032	Central Visayas (Region VII)
1033	Metropolitan Manila
1034	Metropolitan Manila
1035	Metropolitan Manila
1036	Central Luzon (Region III)
1037	Metropolitan Manila
1038	Metropolitan Manila
1039	Central Luzon (Region III)
1040	Metropolitan Manila
1041	Central Luzon (Region III)
1042	Metropolitan Manila
1043	Metropolitan Manila
1044	Central Visayas (Region VII)
1045	CALABARZON (Region IV-A)
1046	CALABARZON (Region IV-A)
1047	Metropolitan Manila
1048	Metropolitan Manila
1049	Metropolitan Manila
1050	Davao Region (Region XI)
1051	Metropolitan Manila
1052	Metropolitan Manila
1053	Western Visayas (Region VI)
1054	CALABARZON (Region IV-A)
1055	CALABARZON (Region IV-A)

1056	CALABARZON (Region IV-A)
1057	Davao Region (Region XI)
1058	Metropolitan Manila
1059	Metropolitan Manila
1060	Metropolitan Manila
1061	CALABARZON (Region IV-A)
1062	Metropolitan Manila
1063	Metropolitan Manila
1064	Metropolitan Manila
1065	Metropolitan Manila
1066	Metropolitan Manila
1067	Metropolitan Manila
1068	Metropolitan Manila
1069	CALABARZON (Region IV-A)
1070	Central Visayas (Region VII)
1071	Davao Region (Region XI)
1072	Metropolitan Manila
1073	Metropolitan Manila
1074	Metropolitan Manila
1075	Davao Region (Region XI)
1076	Metropolitan Manila
1077	Metropolitan Manila
1078	Cordillera Administrative Region (CAR)
1079	Metropolitan Manila
1080	Metropolitan Manila
1081	CALABARZON (Region IV-A)
1082	Metropolitan Manila
1083	Davao Region (Region XI)
1084	Central Visayas (Region VII)
1085	Metropolitan Manila
1086	Metropolitan Manila
1087	Metropolitan Manila
1088	Cordillera Administrative Region (CAR)
1089	Central Visayas (Region VII)
1090	Central Visayas (Region VII)
1091	Metropolitan Manila
1092	Cordillera Administrative Region (CAR)
1093	Metropolitan Manila
1094	Cordillera Administrative Region (CAR)
1095	MIMAROPA (Region IV-B)
1096	Cordillera Administrative Region (CAR)
1097	Metropolitan Manila
1098	Cordillera Administrative Region (CAR)



1099	Metropolitan Manila
1100	Cordillera Administrative Region (CAR)
1101	Metropolitan Manila
1102	MIMAROPA (Region IV-B)
1103	Western Visayas (Region VI)
1104	Cordillera Administrative Region (CAR)
1105	Cordillera Administrative Region (CAR)
1106	Central Luzon (Region III)
1107	Central Visayas (Region VII)
1108	Cordillera Administrative Region (CAR)
1109	CALABARZON (Region IV-A)
1110	Central Visayas (Region VII)
1111	Metropolitan Manila
1112	Davao Region (Region XI)
1113	Metropolitan Manila
1114	Metropolitan Manila
1115	Metropolitan Manila
1116	Metropolitan Manila
1117	Metropolitan Manila
1118	Metropolitan Manila
1119	Metropolitan Manila
1120	Metropolitan Manila
1121	Metropolitan Manila
1122	Central Visayas (Region VII)
1123	Western Visayas (Region VI)
1124	Davao Region (Region XI)
1125	Davao Region (Region XI)
1126	Metropolitan Manila
1127	Metropolitan Manila
1128	Metropolitan Manila
1129	MIMAROPA (Region IV-B)
1130	Metropolitan Manila
1131	Metropolitan Manila

### 4.8.3 Exercise 2

Provide data from the six oldest members of `fem_rec`.

### 4.8.4 Answer 2

```
head(arrange(fem_rec, desc(age)))
```

	case_id	age	age_group	sex	date_announced	date_recovered	date_of_death
1	C719189	90	80+	Female	2020-03-21	<NA>	<NA>
2	C616990	90	80+	Female	2020-04-17	<NA>	<NA>
3	C610398	89	80+	Female	2020-03-28	<NA>	<NA>
4	C478098	87	80+	Female	2020-03-27	<NA>	<NA>
5	C446507	87	80+	Female	2020-03-28	2020-04-01	<NA>
6	C166070	86	80+	Female	2020-03-18	2020-03-30	<NA>

  

	status	date_announced_as_removed	province	muni_city
1	Recovered	2020-05-14	Metropolitan Manila	San Juan
2	Recovered	2020-05-15	Metropolitan Manila	Manila
3	Recovered	2020-04-23	Metropolitan Manila	Parañaque
4	Recovered	2020-05-04	Metropolitan Manila	Makati City
5	Recovered	2020-04-17	Metropolitan Manila	Quezon City
6	Recovered	2020-04-09	Metropolitan Manila	San Juan

  

	health_status	home_quarantined	date_of_onset_of_symptoms	pregnant
1	Recovered	Yes	2020-03-15	No
2	Recovered	Yes	2020-04-04	No
3	Recovered	<NA>	2020-03-20	<NA>
4	Recovered	Yes	2020-03-14	<NA>
5	Recovered	No	2020-03-07	<NA>
6	Recovered	Yes	2020-03-06	<NA>

  

	region
1	Metropolitan Manila
2	Metropolitan Manila
3	Metropolitan Manila
4	Metropolitan Manila
5	Metropolitan Manila
6	Metropolitan Manila

## 4.9 distinct()

`distinct()` finds all the unique rows in a dataset. Most of the time, you'll want the distinct combination of some variables, so you can also optionally supply column names.

## 4.10 Example

### 4.10.1 Example 1

Suppose we want to determine the specific flights (origin, destination) in the `flights` data set.

```
distinct(flights, origin, dest)
distinct(flights, origin, dest, .keep_all=T) ①
```

① This row keeps the other variables in the data set.

```
# A tibble: 224 x 2
  origin dest
  <chr> <chr>
1 EWR    IAH
2 LGA    IAH
3 JFK    MIA
4 JFK    BQN
5 LGA    ATL
6 EWR    ORD
7 EWR    FLL
8 LGA    IAD
9 JFK    MCO
10 LGA    ORD
# i 214 more rows
# A tibble: 224 x 19
  year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
  <int> <int> <int>   <int>         <int>         <dbl>   <int>         <int>
1  2013     1     1     517             515           2     830           819
2  2013     1     1     533             529           4     850           830
3  2013     1     1     542             540           2     923           850
4  2013     1     1     544             545          -1    1004          1022
5  2013     1     1     554             600          -6     812           837
6  2013     1     1     554             558          -4     740           728
7  2013     1     1     555             600          -5     913           854
8  2013     1     1     557             600          -3     709           723
9  2013     1     1     557             600          -3     838           846
10 2013     1     1     558             600          -2     753           745
# i 214 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>
```

### 4.10.2 Example 2

We can create a data set that includes the unique trips serviced by American Airlines.

```
unique_AA<- filter(flights,carrier=="AA")
unique_dest_AA <- distinct(unique_AA,origin, dest)
unique_dest_AA
```

```
# A tibble: 25 x 2
  origin dest
  <chr>   <chr>
1 JFK    MIA
2 LGA    ORD
3 LGA    DFW
4 EWR    MIA
5 LGA    MIA
6 JFK    SJU
7 JFK    MCO
8 JFK    FLL
9 EWR    DFW
10 JFK    LAX
# i 15 more rows
```

We can use `count()` to count the number of distinct combinations of columns. To count the number of unique American Airlines (`carrier=="AA"`) flight destinations,

```
count(unique_AA,origin,dest,sort=T)
```

```
# A tibble: 25 x 3
  origin dest      n
  <chr>   <chr> <int>
1 LGA    ORD   5694
2 LGA    DFW   4836
3 LGA    MIA   3945
4 JFK    LAX   3217
5 JFK    MIA   2221
6 EWR    DFW   2054
7 JFK    BOS   1455
8 JFK    SFO   1422
9 JFK    SJU   1099
10 EWR    MIA   1068
# i 15 more rows
```

## 4.11 Exercise

### 4.11.1 Exercise 1

Create a data set that includes the distinct province (`province`) and municipality (`muni_city`) in the `case_information` data set. Arrange this data set in alphabetical order.

### 4.11.2 Answer 1

```
target <- distinct(case_information,province,muni_city)
arrange(target,province,muni_city)
```

	province	muni_city
1	Abra	Manabo
2	Abra	Sallapadan
3	Agusan del Norte	Butuan City
4	Aklan	Altavas
5	Aklan	Banga
6	Aklan	Kalibo
7	Aklan	Libacao
8	Aklan	Malay
9	Albay	Bacacay
10	Albay	Camalig
11	Albay	Daraga
12	Albay	Guinobatan
13	Albay	Legazpi City
14	Albay	Ligao City
15	Albay	Tabaco City
16	Antique	Caluya
17	Antique	Hamtic
18	Antique	Laua-An
19	Antique	Pandan
20	Antique	Tobias Fornier
21	Bataan	Abucay
22	Bataan	Bagac
23	Bataan	Balanga City
24	Bataan	Dinalupihan
25	Bataan	Hermosa
26	Bataan	Limay
27	Bataan	Mariveles
28	Bataan	Orani

29	Bataan	Orion
30	Bataan	Pilar
31	Bataan	Samal
32	Batangas	Alitagtag
33	Batangas	Batangas City
34	Batangas	Bauan
35	Batangas	Calaca
36	Batangas	Cuenca
37	Batangas	Ibaan
38	Batangas	Laurel
39	Batangas	Lemery
40	Batangas	Lian
41	Batangas	Lipa City
42	Batangas	Lobo
43	Batangas	Mabini
44	Batangas	Malvar
45	Batangas	Mataas Na Kahoy
46	Batangas	Nasugbu
47	Batangas	Padre Garcia
48	Batangas	Rosario
49	Batangas	San Jose
50	Batangas	San Juan
51	Batangas	San Pascual
52	Batangas	Santo Tomas
53	Batangas	Taal
54	Batangas	Tanauan
55	Benguet	Baguio City
56	Benguet	Bokod
57	Benguet	La Trinidad
58	Bohol	Panglao
59	Bukidnon	Valencia
60	Bulacan	Angat
61	Bulacan	Baliuag
62	Bulacan	Bocaue
63	Bulacan	Bulacan
64	Bulacan	Bustos
65	Bulacan	Calumpit
66	Bulacan	Guiguinto
67	Bulacan	Hagonoy
68	Bulacan	Malolos City
69	Bulacan	Marilao
70	Bulacan	Meycauayan City
71	Bulacan	Norzagaray

72	Bulacan	Obando
73	Bulacan	Pandi
74	Bulacan	Paombong
75	Bulacan	Pulilan
76	Bulacan	San Ildefonso
77	Bulacan	San Jose del Monte City
78	Bulacan	San Miguel
79	Bulacan	San Rafael
80	Bulacan	Santa Maria
81	Cagayan	Baggao
82	Cagayan	Gattaran
83	Cagayan	Piat
84	Cagayan	Tuao
85	Cagayan	Tuguegarao City
86	Camarines Norte	Labo
87	Camarines Sur	Libmanan
88	Camarines Sur	Milaor
89	Camarines Sur	Minalabac
90	Camarines Sur	Naga City
91	Camarines Sur	Pasacao
92	Camarines Sur	Tigaon
93	Camiguin	Mahinog
94	Capiz	Jamindan
95	Capiz	Mambusao
96	Capiz	Roxas City
97	Catanduanes	Virac
98	Cavite	Alfonso
99	Cavite	Amadeo
100	Cavite	Bacoar
101	Cavite	Carmona
102	Cavite	Cavite City
103	Cavite	Dasmariñas
104	Cavite	General Mariano Alvarez
105	Cavite	General Trias
106	Cavite	Imus
107	Cavite	Indang
108	Cavite	Kawit
109	Cavite	Maragondon
110	Cavite	Mendez
111	Cavite	Naic
112	Cavite	Noveleta
113	Cavite	Rosario
114	Cavite	Silang

115	Cavite	Tagaytay City
116	Cavite	Tanza
117	Cavite	Ternate
118	Cavite	Trece Martires City
119	Cebu	Bantayan
120	Cebu	Boljoon
121	Cebu	Carcar
122	Cebu	Catmon
123	Cebu	Cebu City
124	Cebu	Consolacion
125	Cebu	Cordoba
126	Cebu	Daanbantayan
127	Cebu	Dalaguete
128	Cebu	Danao City
129	Cebu	Lapu-Lapu City
130	Cebu	Liloan
131	Cebu	Mandaue City
132	Cebu	Minglanilla
133	Cebu	Naga
134	Cebu	Talisay
135	Compostela Valley	Mawab
136	Compostela Valley	Pantukan
137	Davao Occidental	Malita
138	Davao Oriental	Mati City
139	Davao del Norte	Panabo City
140	Davao del Norte	Tagum City
141	Davao del Sur	Davao City
142	Davao del Sur	Digos City
143	Davao del Sur	Matanao
144	Guimaras	Buenavista
145	Guimaras	Nueva Valencia
146	Ifugao	Lamut
147	Ilocos Norte	Batac City
148	Ilocos Norte	Laoag City
149	Ilocos Norte	Paoay
150	Ilocos Sur	Tagudin
151	Iloilo	Banate
152	Iloilo	Barotac Nuevo
153	Iloilo	Dingle
154	Iloilo	Guimbal
155	Iloilo	Iloilo City
156	Iloilo	Lambunao
157	Iloilo	Miagao



158	Iloilo	Pavia
159	Iloilo	Tigbauan
160	Iloilo	Zarraga
161	Isabela	Alicia
162	Isabela	Cabagan
163	Isabela	Cauayan
164	Isabela	Echague
165	Isabela	San Agustin
166	Isabela	Santiago
167	La Union	Agoo
168	La Union	Bacnotan
169	La Union	Balaoan
170	La Union	Bauang
171	La Union	Burgos
172	La Union	Caba
173	La Union	Naguilian
174	La Union	Pugo
175	La Union	San Fernando
176	La Union	San Juan
177	La Union	Santo Tomas
178	Laguna	Alaminos
179	Laguna	Bay
180	Laguna	Biñan
181	Laguna	Cabuyao
182	Laguna	Calamba
183	Laguna	Calauan
184	Laguna	Cavinti
185	Laguna	Famy
186	Laguna	Kalayaan
187	Laguna	Liliw
188	Laguna	Los Baños
189	Laguna	Lumban
190	Laguna	Magdalena
191	Laguna	Majayjay
192	Laguna	Nagcarlan
193	Laguna	Paete
194	Laguna	Pagsanjan
195	Laguna	Pakil
196	Laguna	Pila
197	Laguna	Rizal
198	Laguna	San Pablo City
199	Laguna	San Pedro
200	Laguna	Santa Cruz

201	Laguna	Santa Maria
202	Laguna	Santa Rosa
203	Laguna	Victoria
204	Lanao del Norte	Iligan City
205	Lanao del Norte	Kapatagan
206	Lanao del Norte	Tubod
207	Lanao del Sur	Marantao
208	Lanao del Sur	Marawi City
209	Leyte	Burauen
210	Maguindanao	Cotabato City
211	Maguindanao	Datu Odin Sinsuat
212	Marinduque	Gasan
213	Marinduque	Mogpog
214	Marinduque	Torrijos
215	Metropolitan Manila	Kalookan City
216	Metropolitan Manila	Las Piñas
217	Metropolitan Manila	Makati City
218	Metropolitan Manila	Malabon
219	Metropolitan Manila	Mandaluyong
220	Metropolitan Manila	Manila
221	Metropolitan Manila	Marikina
222	Metropolitan Manila	Muntinlupa
223	Metropolitan Manila	Navotas
224	Metropolitan Manila	Parañaque
225	Metropolitan Manila	Pasay City
226	Metropolitan Manila	Pasig City
227	Metropolitan Manila	Pateros
228	Metropolitan Manila	Quezon City
229	Metropolitan Manila	San Juan
230	Metropolitan Manila	Taguig
231	Metropolitan Manila	Valenzuela
232	Misamis Occidental	Jimenez
233	Misamis Occidental	Ozamis City
234	Misamis Occidental	Tudela
235	Misamis Oriental	Cagayan de Oro City
236	Negros Occidental	Bacolod City
237	Negros Occidental	Bago City
238	Negros Occidental	Candoni
239	Negros Occidental	Enrique B. Magalona
240	Negros Occidental	Escalante
241	Negros Occidental	Hinigaran
242	Negros Occidental	La Carlota City
243	Negros Occidental	La Castellana

244	Negros Occidental	Silay City
245	Negros Occidental	Talisay
246	Negros Occidental	Valladolid
247	Negros Oriental	Bais City
248	Negros Oriental	Dumaguete City
249	Negros Oriental	Jimalalud
250	Negros Oriental	Tayasan
251	North Cotabato	Kidapawan City
252	North Cotabato	Midsayap
253	Northern Samar	Catarman
254	Nueva Ecija	Cabanatuan City
255	Nueva Ecija	Cabiao
256	Nueva Ecija	Cuyapo
257	Nueva Ecija	Gapan City
258	Nueva Ecija	General Mamerto Natividad
259	Nueva Ecija	Jaen
260	Nueva Ecija	Laur
261	Nueva Ecija	Licab
262	Nueva Ecija	Quezon
263	Nueva Ecija	Rizal
264	Nueva Ecija	San Antonio
265	Nueva Ecija	San Isidro
266	Nueva Ecija	San Leonardo
267	Nueva Ecija	Santa Rosa
268	Nueva Ecija	Talugtug
269	Nueva Ecija	Zaragoza
270	Nueva Vizcaya	Alfonso Castaneda
271	Nueva Vizcaya	Aritao
272	Nueva Vizcaya	Bayombong
273	Nueva Vizcaya	Solano
274	Occidental Mindoro	Magsaysay
275	Occidental Mindoro	Sablayan
276	Occidental Mindoro	San Jose
277	Oriental Mindoro	Bongabong
278	Oriental Mindoro	Calapan City
279	Oriental Mindoro	Gloria
280	Oriental Mindoro	Mansalay
281	Oriental Mindoro	Naujan
282	Oriental Mindoro	Pinamalayan
283	Oriental Mindoro	Puerto Galera
284	Oriental Mindoro	Roxas
285	Oriental Mindoro	Victoria
286	Palawan	Puerto Princesa City

287	Pampanga	Angeles City
288	Pampanga	Apalit
289	Pampanga	Bacolor
290	Pampanga	Candaba
291	Pampanga	Floridablanca
292	Pampanga	Guagua
293	Pampanga	Lubao
294	Pampanga	Mabalacat
295	Pampanga	Macabebe
296	Pampanga	Magalang
297	Pampanga	Mexico
298	Pampanga	Porac
299	Pampanga	San Fernando
300	Pampanga	San Simon
301	Pampanga	Santa Ana
302	Pampanga	Santa Rita
303	Pampanga	Santo Tomas
304	Pampanga	Sasmuan
305	Pangasinan	Alaminos
306	Pangasinan	Asingan
307	Pangasinan	Basista
308	Pangasinan	Bayambang
309	Pangasinan	Binalonan
310	Pangasinan	Dagupan City
311	Pangasinan	Infanta
312	Pangasinan	Laoac
313	Pangasinan	Lingayen
314	Pangasinan	Malasiqui
315	Pangasinan	Manaoag
316	Pangasinan	Rosales
317	Pangasinan	San Carlos City
318	Pangasinan	San Fabian
319	Pangasinan	San Nicolas
320	Pangasinan	Santo Tomas
321	Pangasinan	Urbiztondo
322	Pangasinan	Urdaneta City
323	Quezon	Atimonan
324	Quezon	Calauag
325	Quezon	Candelaria
326	Quezon	Infanta
327	Quezon	Lopez
328	Quezon	Lucban
329	Quezon	Lucena City

330	Quezon	Pagbilao
331	Quezon	Pitogo
332	Quezon	Real
333	Quezon	Sampaloc
334	Quezon	Sariaya
335	Quezon	Tayabas City
336	Quezon	Tiaong
337	Quezon	Unisan
338	Rizal	Angono
339	Rizal	Antipolo City
340	Rizal	Baras
341	Rizal	Binangonan
342	Rizal	Cainta
343	Rizal	Cardona
344	Rizal	Jala-Jala
345	Rizal	Morong
346	Rizal	Rodriguez
347	Rizal	San Mateo
348	Rizal	Tanay
349	Rizal	Taytay
350	Rizal	Teresa
351	Romblon	Concepcion
352	Romblon	San Jose
353	Samar	Calbayog City
354	Samar	Catbalogan City
355	Samar	Tarangnan
356	South Cotabato	Banga
357	South Cotabato	General Santos City
358	South Cotabato	Koronadal City
359	South Cotabato	T'boli
360	Sultan Kudarat	Lambayong
361	Sultan Kudarat	Lutayan
362	Sultan Kudarat	Tacurong City
363	Sulu	Indanan
364	Tarlac	Bamban
365	Tarlac	Camiling
366	Tarlac	Capas
367	Tarlac	Concepcion
368	Tarlac	Gerona
369	Tarlac	Paniqui
370	Tarlac	San Jose
371	Tarlac	Tarlac City
372	Tarlac	Victoria

373	Zambales	Cabangan
374	Zambales	Candelaria
375	Zambales	Castillejos
376	Zambales	Olongapo City
377	Zambales	San Antonio
378	Zambales	San Felipe
379	Zambales	San Marcelino
380	Zambales	Subic
381	Zamboanga del Sur	Aurora
382	Zamboanga del Sur	Dumalinao
383	Zamboanga del Sur	Labangan
384	Zamboanga del Sur	Pagadian City
385	Zamboanga del Sur	Zamboanga City
386	<NA>	<NA>

## 5 Piping |>

### 5.1 Importance of Piping in the tidyverse

Suppose we want to perform multiple sequential filtering, counting, and sorting processes for our data.

As an example, what if we want to create a data frame that includes all delayed flights (`dep_delay > 0`) coming out of the JFK airport arranged by the time of delay in descending order?

#### 5.1.1 Current Methods

```
filtered <- filter(flights, dep_delay > 0 & origin == "JFK")
arrange(filtered, desc(dep_delay))
```

# A tibble: 42,031 x 19

	year	month	day	dep_time	sched_dep_time	dep_delay	arr_time	sched_arr_time
	<int>	<int>	<int>	<int>	<int>	<dbl>	<int>	<int>
1	2013	1	9	641	900	1301	1242	1530
2	2013	6	15	1432	1935	1137	1607	2120
3	2013	9	20	1139	1845	1014	1457	2210
4	2013	7	22	845	1600	1005	1044	1815
5	2013	4	10	1100	1900	960	1342	2211
6	2013	6	27	959	1900	899	1236	2226

```

7 2013      1      1      848          1835      853      1001          1950
8 2013      5     19      713          1700      853      1007          1955
9 2013     12     14      830          1845      825      1210          2154
10 2013      3     18     1020          2100      800      1336           32
# i 42,021 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>

```

OR

```

arrange(filter(flights, dep_delay > 0 & origin == "JFK"), desc(dep_delay))

```

```

# A tibble: 42,031 x 19
   year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
   <int> <int> <int>   <int>         <int>      <dbl>      <int>         <int>
1  2013     1     9     641           900      1301      1242          1530
2  2013     6    15    1432          1935      1137      1607          2120
3  2013     9    20    1139          1845      1014      1457          2210
4  2013     7    22     845          1600      1005      1044          1815
5  2013     4    10    1100          1900       960      1342          2211
6  2013     6    27     959          1900       899      1236          2226
7  2013     1     1     848          1835       853      1001          1950
8  2013     5    19     713          1700       853      1007          1955
9  2013    12    14     830          1845       825      1210          2154
10 2013     3    18    1020          2100       800      1336           32
# i 42,021 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>

```

### 5.1.2 Piping

```

flights |>
  filter(dep_delay > 0 & origin == "JFK") |>
  arrange(desc(dep_delay))

```

```

# A tibble: 42,031 x 19
   year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
   <int> <int> <int>   <int>         <int>      <dbl>      <int>         <int>

```

```

1 2013      1      9      641          900      1301      1242          1530
2 2013      6     15     1432          1935      1137      1607          2120
3 2013      9     20     1139          1845      1014      1457          2210
4 2013      7     22      845          1600      1005      1044          1815
5 2013      4     10     1100          1900       960      1342          2211
6 2013      6     27      959          1900       899      1236          2226
7 2013      1      1      848          1835       853      1001          1950
8 2013      5     19      713          1700       853      1007          1955
9 2013     12     14      830          1845       825      1210          2154
10 2013      3     18     1020          2100       800      1336           32
# i 42,021 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>

```

## 5.2 Piping

Piping makes coding more efficient when manipulating data.

### i Mechanism

If we have a data set A that we want to perform operations on, the following lines are equivalent to each other

```

filter(A, [BOOLEAN OPERATION])
A |> filter([BOOLEAN OPERATION])

```

## 5.3 Piping in Sequences

### i Mechanism

We can also apply this to sequence of functions.

```

B <- filter(A, [BOOLEAN OPERATION])
C <- distinct(B, Col1, Col2)
count_C <- count(C, Col1)

```

With pipes,



```
A |>
filter([BOOLEAN OPERATION]) |>
distinct(Col1,Col2) |>
count(Col1)
```

## 5.4 Piping Uses

I will be using pipes for the rest of the workshop, but you don't need to.

## 6 Column Operations

### 6.1 Columns

We will discuss three different column specific operations: `rename()`, `select()`, `mutate()`

### 6.2 `rename()`

`rename()` changes the column names and keeps all existing variables.

```
rename(data, [NEWNAME = OLDNAME])
```

### 6.3 Examples

```
flights |>
  rename(tail_number = tailnum)
```

# A tibble: 336,776 x 19

	year	month	day	dep_time	sched_dep_time	dep_delay	arr_time	sched_arr_time
	<int>	<int>	<int>	<int>	<int>	<dbl>	<int>	<int>
1	2013	1	1	517	515	2	830	819
2	2013	1	1	533	529	4	850	830
3	2013	1	1	542	540	2	923	850
4	2013	1	1	544	545	-1	1004	1022
5	2013	1	1	554	600	-6	812	837
6	2013	1	1	554	558	-4	740	728
7	2013	1	1	555	600	-5	913	854

```

8 2013      1      1      557          600      -3      709          723
9 2013      1      1      557          600      -3      838          846
10 2013     1      1      558          600      -2      753          745
# i 336,766 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tail_number <chr>, origin <chr>, dest <chr>, air_time <dbl>,
#   distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dtm>

```

```

flights |>
  rename(destination_airport = dest,
          origin_airport = origin)

```

```

# A tibble: 336,776 x 19
   year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
   <int> <int> <int>   <int>         <int>      <dbl>   <int>         <int>
1  2013     1     1     517           515         2     830           819
2  2013     1     1     533           529         4     850           830
3  2013     1     1     542           540         2     923           850
4  2013     1     1     544           545        -1    1004          1022
5  2013     1     1     554           600        -6     812           837
6  2013     1     1     554           558        -4     740           728
7  2013     1     1     555           600        -5     913           854
8  2013     1     1     557           600        -3     709           723
9  2013     1     1     557           600        -3     838           846
10 2013     1     1     558           600        -2     753           745
# i 336,766 more rows
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin_airport <chr>, destination_airport <chr>,
#   air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dtm>

```

```
names(flights)
```

```

[1] "year"          "month"         "day"           "dep_time"
[5] "sched_dep_time" "dep_delay"     "arr_time"      "sched_arr_time"
[9] "arr_delay"     "carrier"       "flight"        "tailnum"
[13] "origin"        "dest"          "air_time"      "distance"
[17] "hour"          "minute"        "time_hour"

```

## 6.4 mutate()

`mutate()` adds new columns that are calculated from the existing columns.

## 6.5 Examples

As an example, we can calculate the average speed of the planes (mph) using the following equation:

$$speed = distance / airtime * 60$$

We can create a new variable called `speed` using the `mutate()` function.

```
flights |>
mutate(speed = distance/air_time*60)
```

```
# A tibble: 336,776 x 20
```

	year	month	day	dep_time	sched_dep_time	dep_delay	arr_time	sched_arr_time
	<int>	<int>	<int>	<int>	<int>	<dbl>	<int>	<int>
1	2013	1	1	517	515	2	830	819
2	2013	1	1	533	529	4	850	830
3	2013	1	1	542	540	2	923	850
4	2013	1	1	544	545	-1	1004	1022
5	2013	1	1	554	600	-6	812	837
6	2013	1	1	554	558	-4	740	728
7	2013	1	1	555	600	-5	913	854
8	2013	1	1	557	600	-3	709	723
9	2013	1	1	557	600	-3	838	846
10	2013	1	1	558	600	-2	753	745

```
# i 336,766 more rows
```

```
# i 12 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
#   hour <dbl>, minute <dbl>, time_hour <dtm>, speed <dbl>
```

## 6.6 Example

Suppose we want to create a variable `late` such that flights that have a positive delay is labeled “Late”, while those with no or negative delay is “NotLate”.

```
flights |>
mutate(late = ifelse(dep_delay > 0, "Late", "NotLate"), .keep="used")
```

```
# A tibble: 336,776 x 2
  dep_delay late
  <dbl> <chr>
1         2 Late
2         4 Late
3         2 Late
4        -1 NotLate
5        -6 NotLate
6        -4 NotLate
7        -5 NotLate
8        -3 NotLate
9        -3 NotLate
10       -2 NotLate
# i 336,766 more rows
```

#### Note

`ifelse` produces an if-else statement based on the condition.

```
ifelse([CONDITION],[CONDITION IF TRUE],[CONDITION IF FALSE])
```

## 6.7 Exercise

### 6.7.1 Exercise 1

Using the `case_information` data set, create a variable `OlderAdult` that has a value “yes” for individuals above 60 years of age, and “no” otherwise. Use

### 6.7.2 Answer 1

```
case_information |>
  mutate(OlderAdult = ifelse(age>60,"yes","no"),.keep="used")
```

	age	OlderAdult
1	38	no
2	44	no
3	60	no
4	48	no
5	62	yes

6	58	no
7	39	no
8	58	no
9	33	no
10	86	yes
11	68	yes
12	57	no
13	59	no
14	70	yes
15	52	no
16	46	no
17	48	no
18	31	no
19	72	yes
20	47	no
21	35	no
22	48	no
23	25	no
24	51	no
25	35	no
26	31	no
27	70	yes
28	60	no
29	65	yes
30	29	no
31	83	yes
32	70	yes
33	43	no
34	30	no
35	55	no
36	58	no
37	73	yes
38	65	yes
39	71	yes
40	67	yes
41	54	no
42	51	no
43	76	yes
44	70	yes
45	28	no
46	48	no
47	54	no
48	67	yes

49	72	yes
50	31	no
51	79	yes
52	27	no
53	60	no
54	33	no
55	35	no
56	50	no
57	41	no
58	40	no
59	33	no
60	70	yes
61	28	no
62	70	yes
63	68	yes
64	46	no
65	40	no
66	26	no
67	61	yes
68	44	no
69	76	yes
70	42	no
71	50	no
72	59	no
73	40	no
74	51	no
75	58	no
76	66	yes
77	45	no
78	68	yes
79	38	no
80	60	no
81	32	no
82	24	no
83	69	yes
84	53	no
85	28	no
86	56	no
87	26	no
88	64	yes
89	48	no
90	48	no
91	39	no

92	48	no
93	64	yes
94	35	no
95	54	no
96	28	no
97	65	yes
98	28	no
99	62	yes
100	66	yes
101	77	yes
102	34	no
103	42	no
104	60	no
105	67	yes
106	33	no
107	32	no
108	38	no
109	50	no
110	55	no
111	31	no
112	45	no
113	66	yes
114	47	no
115	32	no
116	88	yes
117	59	no
118	67	yes
119	68	yes
120	35	no
121	30	no
122	59	no
123	56	no
124	47	no
125	22	no
126	76	yes
127	71	yes
128	30	no
129	25	no
130	28	no
131	69	yes
132	36	no
133	48	no
134	67	yes

135	27	no
136	38	no
137	61	yes
138	41	no
139	29	no
140	13	no
141	64	yes
142	50	no
143	38	no
144	49	no
145	28	no
146	35	no
147	48	no
148	75	yes
149	70	yes
150	54	no
151	39	no
152	30	no
153	28	no
154	58	no
155	72	yes
156	58	no
157	33	no
158	74	yes
159	51	no
160	55	no
161	86	yes
162	49	no
163	28	no
164	29	no
165	78	yes
166	28	no
167	56	no
168	49	no
169	40	no
170	74	yes
171	59	no
172	66	yes
173	51	no
174	23	no
175	53	no
176	41	no
177	75	yes



178	61	yes
179	36	no
180	55	no
181	71	yes
182	82	yes
183	52	no
184	70	yes
185	60	no
186	39	no
187	56	no
188	43	no
189	86	yes
190	78	yes
191	37	no
192	50	no
193	42	no
194	35	no
195	35	no
196	65	yes
197	65	yes
198	75	yes
199	58	no
200	56	no
201	70	yes
202	42	no
203	73	yes
204	74	yes
205	37	no
206	47	no
207	60	no
208	32	no
209	45	no
210	72	yes
211	21	no
212	35	no
213	68	yes
214	55	no
215	26	no
216	81	yes
217	45	no
218	49	no
219	51	no
220	69	yes

221	57	no
222	68	yes
223	31	no
224	54	no
225	26	no
226	36	no
227	33	no
228	73	yes
229	55	no
230	34	no
231	31	no
232	26	no
233	55	no
234	52	no
235	53	no
236	38	no
237	61	yes
238	25	no
239	46	no
240	37	no
241	45	no
242	52	no
243	78	yes
244	44	no
245	68	yes
246	56	no
247	44	no
248	23	no
249	45	no
250	27	no
251	54	no
252	64	yes
253	44	no
254	35	no
255	57	no
256	68	yes
257	45	no
258	73	yes
259	58	no
260	47	no
261	71	yes
262	36	no
263	83	yes

264	59	no
265	41	no
266	50	no
267	64	yes
268	61	yes
269	32	no
270	48	no
271	48	no
272	24	no
273	38	no
274	76	yes
275	44	no
276	61	yes
277	70	yes
278	66	yes
279	56	no
280	68	yes
281	57	no
282	30	no
283	32	no
284	33	no
285	90	yes
286	23	no
287	66	yes
288	63	yes
289	68	yes
290	54	no
291	56	no
292	46	no
293	30	no
294	33	no
295	89	yes
296	31	no
297	72	yes
298	36	no
299	31	no
300	39	no
301	72	yes
302	55	no
303	66	yes
304	28	no
305	43	no
306	70	yes

307	34	no
308	65	yes
309	43	no
310	60	no
311	45	no
312	35	no
313	54	no
314	31	no
315	54	no
316	49	no
317	22	no
318	27	no
319	31	no
320	52	no
321	42	no
322	63	yes
323	67	yes
324	62	yes
325	28	no
326	38	no
327	23	no
328	50	no
329	49	no
330	35	no
331	68	yes
332	72	yes
333	74	yes
334	64	yes
335	50	no
336	67	yes
337	51	no
338	29	no
339	78	yes
340	75	yes
341	68	yes
342	63	yes
343	46	no
344	51	no
345	53	no
346	31	no
347	69	yes
348	46	no
349	55	no

350	57	no
351	63	yes
352	23	no
353	45	no
354	41	no
355	62	yes
356	56	no
357	26	no
358	26	no
359	35	no
360	67	yes
361	30	no
362	59	no
363	52	no
364	49	no
365	67	yes
366	44	no
367	46	no
368	56	no
369	80	yes
370	20	no
371	57	no
372	58	no
373	34	no
374	64	yes
375	24	no
376	72	yes
377	56	no
378	40	no
379	32	no
380	34	no
381	28	no
382	64	yes
383	32	no
384	70	yes
385	53	no
386	61	yes
387	30	no
388	32	no
389	50	no
390	75	yes
391	53	no
392	58	no

393	58	no
394	84	yes
395	74	yes
396	45	no
397	60	no
398	52	no
399	54	no
400	56	no
401	57	no
402	26	no
403	81	yes
404	28	no
405	42	no
406	62	yes
407	65	yes
408	64	yes
409	51	no
410	74	yes
411	50	no
412	26	no
413	60	no
414	43	no
415	20	no
416	56	no
417	21	no
418	45	no
419	33	no
420	30	no
421	70	yes
422	76	yes
423	37	no
424	56	no
425	63	yes
426	29	no
427	26	no
428	76	yes
429	73	yes
430	64	yes
431	71	yes
432	62	yes
433	32	no
434	25	no
435	71	yes

436	64	yes
437	49	no
438	51	no
439	66	yes
440	57	no
441	65	yes
442	64	yes
443	53	no
444	61	yes
445	21	no
446	80	yes
447	63	yes
448	71	yes
449	69	yes
450	67	yes
451	71	yes
452	57	no
453	52	no
454	62	yes
455	49	no
456	69	yes
457	29	no
458	49	no
459	55	no
460	64	yes
461	56	no
462	64	yes
463	54	no
464	35	no
465	50	no
466	54	no
467	49	no
468	63	yes
469	56	no
470	32	no
471	61	yes
472	56	no
473	32	no
474	63	yes
475	67	yes
476	69	yes
477	62	yes
478	38	no

479	40	no
480	27	no
481	56	no
482	71	yes
483	22	no
484	65	yes
485	33	no
486	55	no
487	61	yes
488	68	yes
489	40	no
490	70	yes
491	69	yes
492	59	no
493	50	no
494	54	no
495	34	no
496	20	no
497	52	no
498	39	no
499	76	yes
500	62	yes
501	24	no
502	39	no
503	25	no
504	39	no
505	55	no
506	30	no
507	54	no
508	63	yes
509	32	no
510	79	yes
511	59	no
512	67	yes
513	55	no
514	49	no
515	41	no
516	33	no
517	31	no
518	21	no
519	51	no
520	53	no
521	73	yes



522	51	no
523	75	yes
524	50	no
525	40	no
526	48	no
527	56	no
528	82	yes
529	75	yes
530	70	yes
531	66	yes
532	39	no
533	61	yes
534	55	no
535	28	no
536	35	no
537	75	yes
538	57	no
539	70	yes
540	83	yes
541	50	no
542	74	yes
543	45	no
544	20	no
545	47	no
546	64	yes
547	63	yes
548	86	yes
549	47	no
550	45	no
551	39	no
552	62	yes
553	34	no
554	71	yes
555	46	no
556	60	no
557	30	no
558	24	no
559	80	yes
560	68	yes
561	47	no
562	21	no
563	53	no
564	28	no

565	25	no
566	32	no
567	68	yes
568	54	no
569	37	no
570	27	no
571	27	no
572	71	yes
573	58	no
574	58	no
575	72	yes
576	58	no
577	56	no
578	55	no
579	38	no
580	76	yes
581	58	no
582	70	yes
583	52	no
584	70	yes
585	50	no
586	78	yes
587	25	no
588	63	yes
589	34	no
590	29	no
591	62	yes
592	62	yes
593	55	no
594	79	yes
595	58	no
596	61	yes
597	61	yes
598	55	no
599	56	no
600	64	yes
601	63	yes
602	47	no
603	73	yes
604	79	yes
605	50	no
606	55	no
607	51	no

608	42	no
609	57	no
610	50	no
611	59	no
612	43	no
613	61	yes
614	74	yes
615	39	no
616	67	yes
617	70	yes
618	73	yes
619	56	no
620	60	no
621	58	no
622	49	no
623	29	no
624	72	yes
625	46	no
626	28	no
627	65	yes
628	55	no
629	37	no
630	68	yes
631	87	yes
632	34	no
633	66	yes
634	68	yes
635	54	no
636	52	no
637	46	no
638	68	yes
639	67	yes
640	35	no
641	64	yes
642	27	no
643	50	no
644	55	no
645	74	yes
646	52	no
647	33	no
648	61	yes
649	71	yes
650	53	no

651	57	no
652	31	no
653	39	no
654	62	yes
655	34	no
656	89	yes
657	62	yes
658	60	no
659	74	yes
660	81	yes
661	70	yes
662	61	yes
663	69	yes
664	40	no
665	33	no
666	60	no
667	60	no
668	58	no
669	69	yes
670	43	no
671	52	no
672	71	yes
673	31	no
674	58	no
675	26	no
676	80	yes
677	66	yes
678	57	no
679	46	no
680	68	yes
681	72	yes
682	69	yes
683	71	yes
684	39	no
685	75	yes
686	76	yes
687	64	yes
688	93	yes
689	53	no
690	64	yes
691	55	no
692	61	yes
693	44	no

694	56	no
695	71	yes
696	82	yes
697	61	yes
698	63	yes
699	56	no
700	67	yes
701	30	no
702	61	yes
703	73	yes
704	75	yes
705	59	no
706	67	yes
707	33	no
708	48	no
709	62	yes
710	40	no
711	46	no
712	38	no
713	86	yes
714	51	no
715	73	yes
716	65	yes
717	65	yes
718	65	yes
719	51	no
720	40	no
721	59	no
722	75	yes
723	67	yes
724	67	yes
725	31	no
726	78	yes
727	25	no
728	32	no
729	53	no
730	71	yes
731	61	yes
732	41	no
733	38	no
734	38	no
735	33	no
736	66	yes

737	70	yes
738	55	no
739	53	no
740	78	yes
741	58	no
742	46	no
743	75	yes
744	41	no
745	66	yes
746	59	no
747	42	no
748	43	no
749	36	no
750	38	no
751	89	yes
752	28	no
753	37	no
754	54	no
755	87	yes
756	39	no
757	48	no
758	96	yes
759	74	yes
760	50	no
761	74	yes
762	33	no
763	67	yes
764	32	no
765	89	yes
766	51	no
767	24	no
768	56	no
769	59	no
770	53	no
771	67	yes
772	26	no
773	70	yes
774	53	no
775	72	yes
776	58	no
777	30	no
778	64	yes
779	39	no

780	64	yes
781	31	no
782	76	yes
783	60	no
784	49	no
785	55	no
786	70	yes
787	82	yes
788	44	no
789	59	no
790	69	yes
791	61	yes
792	68	yes
793	61	yes
794	52	no
795	43	no
796	55	no
797	71	yes
798	77	yes
799	70	yes
800	66	yes
801	63	yes
802	67	yes
803	77	yes
804	35	no
805	53	no
806	36	no
807	59	no
808	30	no
809	31	no
810	80	yes
811	62	yes
812	31	no
813	58	no
814	33	no
815	60	no
816	63	yes
817	42	no
818	55	no
819	52	no
820	57	no
821	60	no
822	50	no

823	83	yes
824	80	yes
825	26	no
826	75	yes
827	44	no
828	38	no
829	84	yes
830	52	no
831	35	no
832	75	yes
833	39	no
834	54	no
835	33	no
836	68	yes
837	38	no
838	42	no
839	67	yes
840	56	no
841	60	no
842	49	no
843	54	no
844	38	no
845	58	no
846	22	no
847	52	no
848	46	no
849	2	no
850	56	no
851	51	no
852	52	no
853	81	yes
854	68	yes
855	76	yes
856	54	no
857	51	no
858	57	no
859	70	yes
860	65	yes
861	68	yes
862	72	yes
863	59	no
864	85	yes
865	68	yes



866	46	no
867	59	no
868	62	yes
869	28	no
870	53	no
871	43	no
872	61	yes
873	44	no
874	73	yes
875	57	no
876	66	yes
877	40	no
878	63	yes
879	31	no
880	58	no
881	56	no
882	81	yes
883	20	no
884	56	no
885	44	no
886	57	no
887	53	no
888	66	yes
889	65	yes
890	57	no
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1982	71	yes
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11125	52	no
11126	41	no
11127	33	no
11128	27	no
11129	50	no
11130	60	no
11131	52	no
11132	46	no
11133	39	no
11134	34	no
11135	43	no
11136	24	no
11137	46	no
11138	35	no
11139	32	no
11140	26	no
11141	44	no
11142	62	yes

11143	22	no
11144	71	yes
11145	46	no
11146	26	no
11147	41	no
11148	62	yes
11149	58	no
11150	81	yes
11151	38	no
11152	32	no
11153	21	no
11154	47	no
11155	34	no
11156	43	no
11157	39	no
11158	73	yes
11159	99	yes
11160	26	no
11161	30	no
11162	36	no
11163	35	no
11164	10	no
11165	31	no
11166	58	no
11167	65	yes
11168	31	no
11169	29	no
11170	51	no
11171	28	no
11172	43	no
11173	57	no
11174	75	yes
11175	58	no
11176	74	yes
11177	41	no
11178	42	no
11179	36	no
11180	68	yes
11181	31	no
11182	24	no
11183	33	no
11184	71	yes
11185	59	no



11186	19	no
11187	41	no
11188	58	no
11189	34	no
11190	30	no
11191	28	no
11192	31	no
11193	23	no
11194	55	no
11195	39	no
11196	49	no
11197	42	no
11198	29	no
11199	35	no
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11201	22	no
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11207	58	no
11208	37	no
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11210	57	no
11211	52	no
11212	12	no
11213	30	no
11214	65	yes
11215	42	no
11216	31	no
11217	57	no
11218	62	yes
11219	36	no
11220	49	no
11221	28	no
11222	37	no
11223	32	no
11224	57	no
11225	46	no
11226	48	no
11227	42	no
11228	57	no

11229	28	no
11230	32	no
11231	31	no
11232	26	no
11233	8	no
11234	23	no
11235	35	no
11236	61	yes
11237	43	no
11238	32	no
11239	16	no
11240	39	no
11241	6	no
11242	23	no
11243	40	no
11244	39	no
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11246	54	no
11247	41	no
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11249	58	no
11250	52	no
11251	37	no
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11253	60	no
11254	19	no
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11256	48	no
11257	51	no
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11259	71	yes
11260	66	yes
11261	76	yes
11262	41	no
11263	34	no
11264	9	no
11265	40	no
11266	18	no
11267	31	no
11268	59	no
11269	10	no
11270	15	no
11271	45	no

11272	10	no
11273	26	no
11274	24	no
11275	39	no
11276	58	no
11277	44	no
11278	50	no
11279	2	no
11280	39	no
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11282	27	no
11283	45	no
11284	42	no
11285	48	no
11286	13	no
11287	28	no
11288	0	no
11289	69	yes
11290	31	no
11291	35	no
11292	52	no
11293	21	no
11294	58	no
11295	37	no
11296	38	no
11297	29	no
11298	66	yes
11299	40	no
11300	34	no
11301	50	no
11302	33	no
11303	27	no
11304	13	no
11305	58	no
11306	27	no
11307	54	no
11308	23	no
11309	38	no
11310	8	no
11311	25	no
11312	63	yes
11313	56	no
11314	27	no

11315	78	yes
11316	30	no
11317	59	no
11318	21	no
11319	51	no
11320	50	no
11321	21	no
11322	72	yes
11323	27	no
11324	8	no
11325	49	no
11326	44	no
11327	45	no
11328	72	yes
11329	36	no
11330	58	no
11331	31	no
11332	33	no
11333	44	no
11334	24	no
11335	59	no
11336	0	no
11337	47	no
11338	11	no
11339	38	no
11340	39	no
11341	52	no
11342	NA	<NA>
11343	21	no
11344	63	yes
11345	67	yes
11346	49	no
11347	18	no
11348	39	no
11349	87	yes
11350	52	no
11351	29	no
11352	43	no
11353	40	no
11354	37	no
11355	34	no
11356	40	no
11357	22	no

11358	53	no
11359	33	no
11360	27	no
11361	60	no
11362	32	no
11363	40	no
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11365	32	no
11366	66	yes
11367	28	no
11368	10	no
11369	40	no
11370	58	no
11371	42	no
11372	34	no
11373	44	no
11374	51	no
11375	48	no
11376	33	no
11377	52	no
11378	35	no
11379	42	no
11380	36	no
11381	66	yes
11382	67	yes
11383	32	no
11384	41	no
11385	65	yes
11386	62	yes
11387	16	no
11388	32	no
11389	33	no
11390	42	no
11391	25	no
11392	35	no
11393	22	no
11394	42	no
11395	28	no
11396	36	no
11397	42	no
11398	21	no
11399	58	no
11400	34	no

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11402	38	no
11403	58	no
11404	38	no
11405	30	no
11406	31	no
11407	32	no
11408	57	no
11409	23	no
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11411	43	no
11412	61	yes
11413	46	no
11414	22	no
11415	34	no
11416	42	no
11417	40	no
11418	69	yes
11419	10	no
11420	27	no
11421	56	no
11422	57	no
11423	14	no
11424	54	no
11425	22	no
11426	29	no
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11428	31	no
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11435	28	no
11436	20	no
11437	20	no
11438	57	no
11439	NA	<NA>
11440	56	no
11441	59	no
11442	17	no
11443	53	no

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11445	59	no
11446	31	no
11447	51	no
11448	28	no
11449	39	no
11450	27	no
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11456	57	no
11457	43	no
11458	38	no
11459	60	no
11460	37	no
11461	68	yes
11462	38	no
11463	60	no
11464	9	no
11465	28	no
11466	12	no
11467	31	no
11468	34	no
11469	8	no
11470	36	no
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11476	35	no
11477	34	no
11478	20	no
11479	29	no
11480	38	no
11481	58	no
11482	23	no
11483	62	yes
11484	47	no
11485	24	no
11486	34	no

11487	NA	<NA>
11488	56	no
11489	23	no
11490	39	no
11491	34	no
11492	59	no
11493	39	no
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11496	34	no
11497	45	no
11498	55	no
11499	40	no
11500	37	no
11501	NA	<NA>
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11503	26	no
11504	59	no
11505	14	no
11506	30	no
11507	5	no
11508	61	yes
11509	40	no
11510	68	yes
11511	38	no
11512	24	no
11513	18	no
11514	57	no
11515	54	no
11516	29	no
11517	24	no
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11521	38	no
11522	35	no
11523	45	no
11524	46	no
11525	30	no
11526	21	no
11527	32	no
11528	66	yes
11529	0	no



11530	11	no
11531	70	yes
11532	56	no
11533	58	no
11534	43	no
11535	54	no
11536	39	no
11537	12	no
11538	23	no
11539	42	no
11540	22	no
11541	31	no
11542	19	no
11543	29	no
11544	46	no
11545	51	no
11546	54	no
11547	54	no
11548	23	no
11549	46	no
11550	50	no
11551	28	no
11552	51	no
11553	NA	<NA>
11554	30	no
11555	44	no
11556	52	no
11557	48	no
11558	44	no
11559	52	no
11560	48	no
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11564	40	no
11565	0	no
11566	46	no
11567	51	no
11568	35	no
11569	11	no
11570	11	no
11571	48	no
11572	30	no

11573	38	no
11574	65	yes
11575	36	no
11576	26	no
11577	40	no
11578	26	no
11579	38	no
11580	19	no
11581	37	no
11582	33	no
11583	40	no
11584	22	no
11585	49	no
11586	27	no
11587	29	no
11588	25	no
11589	29	no
11590	63	yes
11591	45	no
11592	3	no
11593	19	no
11594	42	no
11595	35	no
11596	25	no
11597	64	yes
11598	36	no
11599	54	no
11600	46	no
11601	32	no
11602	27	no
11603	34	no
11604	30	no
11605	41	no
11606	21	no
11607	61	yes
11608	27	no
11609	65	yes
11610	67	yes
11611	30	no
11612	34	no
11613	30	no
11614	22	no
11615	66	yes

11616	27	no
11617	62	yes
11618	42	no
11619	1	no
11620	39	no
11621	41	no
11622	39	no
11623	68	yes
11624	32	no
11625	38	no
11626	57	no
11627	51	no
11628	59	no
11629	35	no
11630	32	no
11631	15	no
11632	63	yes
11633	50	no
11634	46	no
11635	37	no
11636	46	no
11637	43	no
11638	29	no
11639	50	no
11640	29	no
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11643	25	no
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11645	50	no
11646	45	no
11647	47	no
11648	42	no
11649	24	no
11650	52	no
11651	34	no
11652	16	no
11653	24	no
11654	13	no
11655	83	yes
11656	33	no
11657	53	no
11658	66	yes

11659	58	no
11660	65	yes
11661	67	yes
11662	NA	<NA>
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11664	6	no
11665	58	no
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11682	48	no
11683	52	no
11684	59	no
11685	32	no
11686	27	no
11687	29	no
11688	28	no
11689	71	yes
11690	37	no
11691	52	no
11692	26	no
11693	33	no
11694	65	yes
11695	29	no
11696	49	no
11697	51	no
11698	37	no
11699	37	no
11700	48	no
11701	30	no

11702	61	yes
11703	34	no
11704	72	yes
11705	13	no
11706	19	no
11707	57	no
11708	51	no
11709	39	no
11710	20	no
11711	54	no
11712	31	no
11713	27	no
11714	47	no
11715	34	no
11716	33	no
11717	52	no
11718	0	no
11719	25	no
11720	58	no
11721	49	no
11722	52	no
11723	0	no
11724	29	no
11725	40	no
11726	48	no
11727	22	no
11728	23	no
11729	26	no
11730	46	no
11731	42	no
11732	77	yes
11733	63	yes
11734	24	no
11735	17	no
11736	12	no
11737	29	no
11738	23	no
11739	48	no
11740	43	no
11741	61	yes
11742	25	no
11743	46	no
11744	13	no

11745	35	no
11746	75	yes
11747	45	no
11748	35	no
11749	56	no
11750	28	no
11751	42	no
11752	23	no
11753	28	no
11754	13	no
11755	73	yes
11756	14	no
11757	31	no
11758	43	no
11759	53	no
11760	57	no
11761	19	no
11762	30	no
11763	46	no
11764	28	no
11765	49	no
11766	29	no
11767	20	no
11768	6	no
11769	65	yes
11770	10	no
11771	60	no
11772	50	no
11773	46	no
11774	30	no
11775	29	no
11776	45	no
11777	34	no
11778	58	no
11779	15	no
11780	17	no
11781	29	no
11782	83	yes
11783	66	yes
11784	51	no
11785	21	no
11786	52	no
11787	31	no

11788	21	no
11789	43	no
11790	24	no
11791	27	no
11792	30	no
11793	80	yes
11794	40	no
11795	60	no
11796	66	yes
11797	28	no
11798	48	no
11799	48	no
11800	83	yes
11801	21	no
11802	47	no
11803	25	no
11804	37	no
11805	28	no
11806	26	no
11807	28	no
11808	33	no
11809	36	no
11810	52	no
11811	25	no
11812	61	yes
11813	51	no
11814	47	no
11815	53	no
11816	31	no
11817	32	no
11818	14	no
11819	87	yes
11820	84	yes
11821	1	no
11822	53	no
11823	45	no
11824	50	no
11825	46	no
11826	36	no
11827	39	no
11828	61	yes
11829	13	no
11830	32	no

11831	67	yes
11832	56	no
11833	36	no
11834	61	yes
11835	55	no
11836	69	yes
11837	56	no
11838	40	no
11839	31	no
11840	35	no
11841	39	no
11842	32	no
11843	56	no
11844	13	no
11845	63	yes
11846	44	no
11847	58	no
11848	32	no
11849	44	no
11850	28	no
11851	27	no
11852	26	no
11853	61	yes
11854	48	no
11855	30	no
11856	64	yes
11857	59	no
11858	42	no
11859	23	no
11860	22	no
11861	17	no
11862	46	no
11863	65	yes
11864	62	yes
11865	35	no
11866	27	no
11867	43	no
11868	33	no
11869	21	no
11870	35	no
11871	63	yes
11872	63	yes
11873	25	no



11874	50	no
11875	47	no
11876	59	no
11877	25	no
11878	48	no
11879	39	no
11880	35	no
11881	36	no
11882	46	no
11883	78	yes
11884	36	no
11885	39	no
11886	64	yes
11887	47	no
11888	40	no
11889	39	no
11890	78	yes
11891	37	no
11892	76	yes
11893	25	no
11894	44	no
11895	12	no
11896	41	no
11897	48	no
11898	41	no
11899	64	yes
11900	42	no
11901	29	no
11902	81	yes
11903	67	yes
11904	57	no
11905	74	yes
11906	47	no
11907	26	no
11908	49	no
11909	1	no
11910	57	no
11911	49	no
11912	48	no
11913	52	no
11914	45	no
11915	66	yes
11916	8	no

11917	38	no
11918	33	no
11919	39	no
11920	44	no
11921	64	yes
11922	32	no
11923	29	no
11924	44	no
11925	54	no
11926	34	no
11927	29	no
11928	22	no
11929	25	no
11930	25	no
11931	84	yes
11932	81	yes
11933	53	no
11934	60	no
11935	25	no
11936	43	no
11937	38	no
11938	44	no
11939	46	no
11940	65	yes
11941	47	no
11942	41	no
11943	47	no
11944	53	no
11945	63	yes
11946	38	no
11947	64	yes
11948	1	no
11949	34	no
11950	29	no
11951	25	no
11952	23	no
11953	30	no
11954	27	no
11955	23	no
11956	53	no
11957	52	no
11958	67	yes
11959	77	yes

11960	24	no
11961	31	no
11962	54	no
11963	37	no
11964	67	yes
11965	54	no
11966	0	no
11967	31	no
11968	26	no
11969	46	no
11970	37	no
11971	61	yes
11972	44	no
11973	35	no
11974	43	no
11975	46	no
11976	42	no
11977	21	no
11978	0	no
11979	46	no
11980	50	no
11981	33	no
11982	43	no
11983	54	no
11984	49	no
11985	42	no
11986	0	no
11987	55	no
11988	44	no
11989	27	no
11990	26	no
11991	72	yes
11992	21	no
11993	63	yes
11994	35	no
11995	41	no
11996	35	no
11997	44	no
11998	35	no
11999	48	no
12000	42	no
12001	72	yes
12002	37	no

12003	35	no
12004	53	no
12005	26	no
12006	72	yes
12007	36	no
12008	34	no
12009	39	no
12010	80	yes
12011	23	no
12012	23	no
12013	32	no
12014	20	no
12015	33	no
12016	77	yes
12017	47	no
12018	44	no
12019	73	yes
12020	33	no
12021	53	no
12022	8	no
12023	NA	<NA>
12024	36	no
12025	25	no
12026	13	no
12027	32	no
12028	46	no
12029	61	yes
12030	46	no
12031	29	no
12032	26	no
12033	32	no
12034	9	no
12035	33	no
12036	23	no
12037	29	no
12038	36	no
12039	95	yes
12040	0	no
12041	21	no
12042	20	no
12043	62	yes
12044	44	no
12045	37	no

12046	40	no
12047	60	no
12048	31	no
12049	43	no
12050	24	no
12051	9	no
12052	47	no
12053	58	no
12054	46	no
12055	53	no
12056	52	no
12057	38	no
12058	7	no
12059	79	yes
12060	27	no
12061	32	no
12062	11	no
12063	33	no
12064	58	no
12065	45	no
12066	72	yes
12067	28	no
12068	22	no
12069	0	no
12070	0	no
12071	37	no
12072	54	no
12073	24	no
12074	66	yes
12075	66	yes
12076	73	yes
12077	26	no
12078	45	no
12079	65	yes
12080	57	no
12081	7	no
12082	31	no
12083	34	no
12084	53	no
12085	22	no
12086	45	no
12087	35	no
12088	37	no

12089	62	yes
12090	18	no
12091	50	no

## 6.8 select()

`select()` allows you to rapidly zoom in on a useful subset using operations based on the names of the variables. This is helpful when the datasets have hundreds of columns.

### 6.8.1 By Name

```
flights |>
  select(carrier,dep_delay,month,day)
```

```
# A tibble: 336,776 x 4
  carrier dep_delay month   day
  <chr>      <dbl> <int> <int>
1 UA          2      1      1
2 UA          4      1      1
3 AA          2      1      1
4 B6         -1      1      1
5 DL         -6      1      1
6 UA         -4      1      1
7 B6         -5      1      1
8 EV         -3      1      1
9 B6         -3      1      1
10 AA        -2      1      1
# i 336,766 more rows
```

### 6.8.2 By Range

```
flights |>
  select(year:carrier)
```

```
# A tibble: 336,776 x 10
  year month   day dep_time sched_dep_time dep_delay arr_time sched_arr_time
  <int> <int> <int>   <int>         <int>      <dbl>    <int>         <int>
1  2013     1     1     517           515         2      830           819
```

```

2 2013      1      1      533              529      4      850              830
3 2013      1      1      542              540      2      923              850
4 2013      1      1      544              545     -1     1004             1022
5 2013      1      1      554              600     -6      812              837
6 2013      1      1      554              558     -4      740              728
7 2013      1      1      555              600     -5      913              854
8 2013      1      1      557              600     -3      709              723
9 2013      1      1      557              600     -3      838              846
10 2013     1      1      558              600     -2      753              745
# i 336,766 more rows
# i 2 more variables: arr_delay <dbl>, carrier <chr>

```

### 6.8.3 By Exclusion

```

flights |>
  select(!c(year,month,day))

```

```

# A tibble: 336,776 x 16
   dep_time sched_dep_time dep_delay arr_time sched_arr_time arr_delay carrier
   <int>      <int>      <dbl>   <int>      <int>      <dbl> <chr>
1     517         515         2     830         819        11 UA
2     533         529         4     850         830        20 UA
3     542         540         2     923         850        33 AA
4     544         545        -1    1004        1022       -18 B6
5     554         600        -6     812         837       -25 DL
6     554         558        -4     740         728        12 UA
7     555         600        -5     913         854        19 B6
8     557         600        -3     709         723       -14 EV
9     557         600        -3     838         846        -8 B6
10    558         600        -2     753         745         8 AA
# i 336,766 more rows
# i 9 more variables: flight <int>, tailnum <chr>, origin <chr>, dest <chr>,
#   air_time <dbl>, distance <dbl>, hour <dbl>, minute <dbl>, time_hour <dtm>

```

## 7 Group Operations

### 7.1 Groups

The `tidyverse` also enables us to work in groups. Commonly used functions include `group_by()` and `summarize()`.

## 7.2 group\_by()

`group_by()` divides the dataset into groups useful for your analysis. These are commonly used in conjunction with other functions.

The R output indicates whether your data frame is grouped.

```
flights |> group_by(carrier)
```

```
# A tibble: 336,776 x 19
```

```
# Groups:   carrier [16]
```

	year	month	day	dep_time	sched_dep_time	dep_delay	arr_time	sched_arr_time
	<int>	<int>	<int>	<int>	<int>	<dbl>	<int>	<int>
1	2013	1	1	517	515	2	830	819
2	2013	1	1	533	529	4	850	830
3	2013	1	1	542	540	2	923	850
4	2013	1	1	544	545	-1	1004	1022
5	2013	1	1	554	600	-6	812	837
6	2013	1	1	554	558	-4	740	728
7	2013	1	1	555	600	-5	913	854
8	2013	1	1	557	600	-3	709	723
9	2013	1	1	557	600	-3	838	846
10	2013	1	1	558	600	-2	753	745

```
# i 336,766 more rows
```

```
# i 11 more variables: arr_delay <dbl>, carrier <chr>, flight <int>,
```

```
#   tailnum <chr>, origin <chr>, dest <chr>, air_time <dbl>, distance <dbl>,
```

```
#   hour <dbl>, minute <dbl>, time_hour <dtm>
```

## 7.3 ungroup()

`ungroup()` removes the grouping set by `group_by()`. This is helpful when calculating

## 7.4 summarize()

When calculating summary statistics from the data frame, we want to reduce the frame to a single row for each group. This can be done using `summarize()` or `summarise()`.

These summary statistics can be calculated for the entire data frame, or by group.



## 7.5 Example 1

Suppose we want to calculate the average and standard deviation of the departure delay time.

### 7.5.1 All Flights

```
flights |>
  summarize(mean = mean(dep_delay, na.rm=T),
            sd = sd(dep_delay, na.rm=T),
            median = quantile(dep_delay, 0.5, na.rm=T),
            minimum = min(dep_delay, na.rm=T),
            maximum = max(dep_delay, na.rm=T))
```

```
# A tibble: 1 x 5
  mean    sd median minimum maximum
<dbl> <dbl> <dbl>   <dbl>   <dbl>
1  12.6  40.2    -2     -43    1301
```

### 7.5.2 By Carrier

```
flights |>
  group_by(carrier) |>
  summarize(mean = mean(dep_delay, na.rm=T),
            sd = sd(dep_delay, na.rm=T),
            median = quantile(dep_delay, 0.5, na.rm=T),
            minimum = min(dep_delay, na.rm=T),
            maximum = max(dep_delay, na.rm=T))
```

```
# A tibble: 16 x 6
  carrier mean    sd median minimum maximum
  <chr>   <dbl> <dbl> <dbl>   <dbl>   <dbl>
1 9E      16.7  45.9   -2     -24     747
2 AA       8.59  37.4   -3     -24    1014
3 AS       5.80  31.4   -3     -21     225
4 B6      13.0  38.5   -1     -43     502
5 DL       9.26  39.7   -2     -33     960
6 EV      20.0  46.6   -1     -32     548
7 F9      20.2  58.4   0.5    -27     853
8 FL      18.7  52.7    1     -22     602
```

9	HA	4.90	74.1	-4	-16	1301
10	MQ	10.6	39.2	-3	-26	1137
11	OO	12.6	43.1	-6	-14	154
12	UA	12.1	35.7	0	-20	483
13	US	3.78	28.1	-4	-19	500
14	VX	12.9	44.8	0	-20	653
15	WN	17.7	43.3	1	-13	471
16	YV	19.0	49.2	-2	-16	387

## 7.6 Example 2

Suppose we want to count how many times a carrier's flight was delayed in each month.

```
flights |>
  mutate(late = ifelse(dep_delay > 0, "Late","NotLate"),.keep="all") |>
  group_by(carrier,month,.drop=F) |>
  count(late)
```

```
# A tibble: 508 x 4
# Groups:   carrier, month [185]
   carrier month late      n
   <chr>   <int> <chr>   <int>
1 9E       1 Late     574
2 9E       1 NotLate  924
3 9E       1 <NA>     75
4 9E       2 Late     511
5 9E       2 NotLate  842
6 9E       2 <NA>    106
7 9E       3 Late     538
8 9E       3 NotLate  976
9 9E       3 <NA>    113
10 9E      4 Late     471
# i 498 more rows
```

## 7.7 Exercise

### 7.7.1 Exercise 1

Using the case\_information data set, calculate the average and standard deviation of age for each status category.

### 7.7.2 Answer 1

```
case_information |>
group_by(status,.drop=F) |>
summarize(Mean = mean(age,na.rm=T), SD = sd(age,na.rm=T))
```

```
# A tibble: 5 x 3
  status      Mean    SD
  <chr>      <dbl> <dbl>
1 Admitted    48.8  18.4
2 Died        63.7  15.4
3 For validation 40.2  17.6
4 Home quarantined 41.1  15.6
5 Recovered   46.5  16.5
```

### 7.7.3 Exercise 2

Using the case\_information data set, count the number of each status category for each age group and sex. Calculate the relative proportion within each agegroup/sex group.

### 7.7.4 Answer 2

```
case_information |>
group_by(age_group,sex,.drop=F) |>
count(status)
```

```
# A tibble: 173 x 4
# Groups:   age_group, sex [36]
  age_group sex    status      n
  <chr>    <chr> <chr>    <int>
1 0 to 4   Female Admitted    10
2 0 to 4   Female Died      2
3 0 to 4   Female For validation 37
4 0 to 4   Female Home quarantined 3
5 0 to 4   Female Recovered    5
6 0 to 4   Male  Admitted    12
7 0 to 4   Male  Died      5
8 0 to 4   Male  For validation 63
9 0 to 4   Male  Home quarantined 8
10 0 to 4  Male  Recovered    9
# i 163 more rows
```

**8 Chapter Done! Click here to go back to the [home page](#)!**