

How can I subset a dataset by a specific date range in R?

Authored by
stats writer

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The process of subsetting a dataset by a specific date range in R involves selecting a subset of data within a specified date range from a larger dataset. This can be achieved by using different functions and operators in R, such as the `subset()` function or the "

This tutorial provides several examples of how to use this function in practice.

Example 1: Subset Between Two Dates

The following code shows how to select the rows of a data frame that fall between two dates, inclusive:

```
#make this example reproducible
```

```
set.seed(0)
```

```
#create data frame
```

```
df <- data.frame(date = as.Date("2021-01-01") - 0:19,
```

```
sales = runif(20, 10, 500) + seq(50, 69)^2)
```

```
#view first six rows
```

```
head(df)
```

```
date sales
```

```
1 2021-01-01 2949.382
```

```
2 2020-12-31 2741.099
```

```
3 2020-12-30 2896.341
```

```
4 2020-12-29 3099.698
```

```
5 2020-12-28 3371.022
```

```
6 2020-12-27 3133.824
```

```
#subset between two dates, inclusive
```

```
df
```

```
date sales
```

```
5 2020-12-28 3371.022
```

```
6 2020-12-27 3133.824
```

```
7 2020-12-26 3586.211
```

```
8 2020-12-25 3721.891
```

You only need to modify the greater and less than signs to select the rows that fall between two dates, exclusive:

#make this example reproducible**set.seed(0)**

#create data frame

```
df <- data.frame(date = as.Date("2021-01-01") - 0:19,  
sales = runif(20, 10, 500) + seq(50, 69)^2)
```

#subset between two dates, exclusive

df

date sales

6 2020-12-27 3133.824

7 2020-12-26 3586.211

Example 2: Subset After a Certain Date

The following code shows how to select the rows of a data frame that occur after a certain date:

#make this example reproducible**set.seed(0)**

#create data frame

```
df <- data.frame(date = as.Date("2021-01-01") - 0:19,  
sales = runif(20, 10, 500) + seq(50, 69)^2)
```

#subset after a certain date

df

date sales

1 2021-01-01 2949.382

2 2020-12-31 2741.099

3 2020-12-30 2896.341

4 2020-12-29 3099.698

5 2020-12-28 3371.022

6 2020-12-27 3133.824

7 2020-12-26 3586.211

8 2020-12-25 3721.891

9 2020-12-24 3697.791

10 2020-12-23 3799.266

11 2020-12-22 3640.275

Example 3: Subset Before a Certain Date

The following code shows how to select the rows of a data frame that occur before a certain date:

```
#make this example reproducible
```

```
set.seed(0)
```

```
#create data frame
```

```
df <- data.frame(date = as.Date("2021-01-01") - 0:19,
```

```
sales = runif(20, 10, 500) + seq(50, 69)^2)
```

```
#subset before a certain date
```

```
df
```

```
date sales
```

```
12 2020-12-21 3831.928
```

```
13 2020-12-20 3940.513
```

```
14 2020-12-19 4315.641
```

```
15 2020-12-18 4294.211
```

```
16 2020-12-17 4612.222
```

```
17 2020-12-16 4609.873
```

```
18 2020-12-15 4850.633
```

```
19 2020-12-14 5120.034
```

```
20 2020-12-13 4957.217
```

[How to Plot a Time Series in R](#)

[How to Extract Year from Date in R](#)

[How to Aggregate Daily Data to Monthly and Yearly in R](#)