

How can I filter a data frame by row number using dplyr in R?

Authored by
stats writer

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Dplyr is a popular package in R for data manipulation and analysis. It offers various functions for filtering, arranging, summarizing, and mutating data frames. One of the useful features of dplyr is the ability to filter a data frame by row number. This means that you can select specific rows from a data frame based on their position or order. This can be achieved by using the `filter()` function, which allows you to specify the row numbers you want to keep or exclude. By using dplyr's `filter()` function, you can efficiently slice and subset your data frame based on row number, making it a powerful tool for data exploration and analysis.

Filter by Row Number Using dplyr

You can use the following methods to filter a data frame by row number using the `slice` function from the package:

Method 1: Filter by Specific Row Numbers

```
df %>% slice(2, 3, 8)
```

This will return row numbers 2, 3, and 8.

Method 2: Filter by Range of Row Numbers

```
df %>% slice(2:5)
```

This will return rows 2 through 5.

The following examples show how to use each method in practice with the following data frame in R:

```
#create data frame
```

```
df <- data.frame(team=c('A', 'B', 'C', 'D', 'E', 'F', 'G', 'H'),  
points=c(10, 10, 8, 6, 15, 15, 12, 12),  
rebounds=c(8, 8, 4, 3, 10, 11, 7, 7))
```

```
#view data frame
```

```
df
```

```
team points rebounds
```

```
1 A 10 8
```

```
2 B 10 8
```

```
3 C 8 4
```

```
4 D 6 3
```

```
5 E 15 10
```

```
6 F 15 11
```

```
7 G 12 7
```

```
8 H 12 7
```

Example 1: Filter by Specific Row Numbers

We can use the following code to filter for rows 2, 3, and 8:

```
library(dplyr)
```

```
#filter for only rows 2, 3, and 8
```

```
df %>% slice(2, 3, 8)
```

```
team points rebounds
```

```
1 B 10 8
```

```
2 C 8 4
```

```
3 H 12 7
```

Notice that only rows 2, 3, and 8 are returned from the original data frame.

Example 2: Filter By Range of Row Numbers

We can use the following code to filter for rows between 2 and 5:

```
library(dplyr)
```

```
#filter for rows between 2 and 5
```

```
df %>% slice(2:5)
```

```
team points rebounds
```

```
1 B 10 8
```

```
2 C 8 4
```

```
3 D 6 3
```

```
4 E 15 10
```

Notice that only the rows between 2 and 5 are returned from the original data frame.

Additional Resources

The following tutorials explain how to perform other common operations in dplyr:

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