

# How to Easily Extract Rows from a Data Frame in R

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November 29, 2025

## RECOMMENDED CITATION

stats writer (2025). *How to Easily Extract Rows from a Data Frame in R*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=101517>

In R, you can extract specific rows from a data frame using the bracket notation and the row indices. For example, `df[2,4:5]` will return the 2nd, 4th, and 5th rows from the data frame `df`. Additionally, you can use logical vectors to specify the rows that have to be extracted, and you can use the `subset()` function for more complex subsetting operations. Five examples of extracting rows from a data frame in R are provided in this article.

There are five common ways to extract rows from a data frame in R:

### Method 1: Extract One Row by Position

```
#extract row 2
df
```

### Method 2: Extract Multiple Rows by Position

```
#extract rows 2, 4, and 5
df
```

### Method 3: Extract Range of Rows

```
#extract rows in range of 1 to 3
df
```

### Method 4: Extract Rows Based on One Condition

```
#extract rows where value in column1 is greater than 10
df
```

### Method 5: Extract Rows Based on Multiple Conditions

```
#extract rows where column1 > 10 and column2 > 5
df
```

```
#extract rows where column1 > 10 or column2 > 5
df
```

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

```
#create data frame
df <- data.frame(team=c('A', 'B', 'C', 'D', 'E'),
```

```
points=c(99, 90, 86, 88, 95),  
assists=c(33, 28, 31, 39, 34),  
rebounds=c(30, 28, 24, 24, 28))
```

```
#view data frame  
df
```

```
team points assists rebounds  
1 A 99 33 30  
2 B 90 28 28  
3 C 86 31 24  
4 D 88 39 24  
5 E 95 34 28
```

### Example 1: Extract One Row by Position

The following code shows how to extract only row 2 from the data frame:

```
#extract row 2  
df
```

```
team points assists rebounds  
2 B 90 28 28
```

### Example 2: Extract Multiple Rows by Position

```
#extract rows 2, 4, and 5  
df
```

```
team points assists rebounds  
2 B 90 28 28  
4 D 88 39 24  
5 E 95 34 28
```

### Example 3: Extract Range of Rows

The following code shows how to extract rows in the range from 1 to 3:

```
#extract rows in range of 1 to 3  
df
```

```
team points assists rebounds
```

```
1 A 99 33 30
```

```
2 B 90 28 28
```

```
3 C 86 31 24
```

### Example 4: Extract Rows Based on One Condition

The following code shows how to extract the rows where the value in the **points** column is greater than 90:

```
#extract rows where value in points column is greater than 90
```

```
df
```

```
team points assists rebounds
```

```
1 A 99 33 30
```

```
5 E 95 34 28
```

### Example 5: Extract Rows Based on Multiple Conditions

The following code shows how to extract the rows where the value in the **points** column is greater than 90:

```
#extract rows where points is greater than 90 and assists is greater than 33
```

```
df
```

```
team points assists rebounds
```

```
5 E 95 34 28
```