

# How can rows be extracted from a data frame in R?

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## RECOMMENDED CITATION

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Rows can be extracted from a data frame in R by using the "subset" function or by using indexing. The "subset" function allows for specific rows to be selected based on certain criteria, such as a specific column value. Indexing, on the other hand, allows for the selection of rows based on their position in the data frame. Both methods provide a way to extract rows from a data frame in R, allowing for further manipulation and analysis of the data.

## Extract Rows from Data Frame in R (5 Examples)

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
```

#### Additional Resources

The following tutorials explain how to perform other common tasks in R: