

How can I round values in specific columns using dplyr in R?

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The process of rounding values in specific columns using dplyr in R involves utilizing the dplyr package and its functions to manipulate data in a data frame. This can be achieved by selecting the desired columns, applying the round() function, and using the mutate() function to create a new column with the rounded values. This allows for efficient and precise rounding of data in specific columns, making it a useful tool for data analysis and manipulation in R.

Round Values in Specific Columns Using dplyr

You can use the following methods to round values in specific columns of a data frame using the dplyr package in R:

Method 1: Round Values in Specific Columns

```
library(dplyr)
```

```
#round values in 'sales' and 'returns' columns to 2 decimal places
```

```
df_new <- df %>% mutate(across(c('sales', 'returns'), round, 2))
```

Method 2: Round Values in All Numeric Columns

```
library(dplyr)
```

```
#round values in all numeric columns to 2 decimal places
```

```
df_new <- df %>% mutate(across(where(is.numeric),
```

round, 2))

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

#create data frame

```
df <- data.frame(store=c('A', 'A', 'A', 'B', 'B', 'C', 'C', 'C'),  
sales=c(4.352, 6.5543, 7.5423, 9.22111, 4.332, 9.55,  
8.0094, 7.2),  
returns=c(1.2324, 2.6654, 3.442, 6.545, 8.11, 8.004, 7.545,  
6.0),  
promos=c(12.11, 14.455, 10.277, 23.51, 20.099, 29.343,  
30.1, 45.6))
```

#view data frame

df

store sales returns promos

```
1 A 4.35200 1.2324 12.110  
2 A 6.55430 2.6654 14.455  
3 A 7.54230 3.4420 10.277  
4 B 9.22111 6.5450 23.510  
5 B 4.33200 8.1100 20.099  
6 C 9.55000 8.0040 29.343  
7 C 8.00940 7.5450 30.100
```

8 C 7.20000 6.0000 45.600

Example 1: Round Values in Specific Columns Using dplyr

The following code shows how to round the values in the sales and returns columns to 2 decimal places:

```
library(dplyr)
```

```
#round values in 'sales' and 'returns' columns to 2  
decimal places
```

```
df_new <- df %>% mutate(across(c('sales', 'returns'),  
round, 2))
```

```
#view updated data frame
```

```
df_new
```

```
store sales returns promos
```

```
1 A 4.35 1.23 12.110
```

```
2 A 6.55 2.67 14.455
```

```
3 A 7.54 3.44 10.277
```

```
4 B 9.22 6.54 23.510
```

```
5 B 4.33 8.11 20.099
```

```
6 C 9.55 8.00 29.343
```

```
7 C 8.01 7.54 30.100
```

```
8 C 7.20 6.00 45.600
```

Notice that the values in the sales and returns columns are rounded to 2 decimal places while all other columns have remain unchanged.

Example 2: Round Values in All Numeric Columns Using dplyr

The following code shows how to round the values in all of the numeric columns to 2 decimal places:

```
library(dplyr)
```

```
#round values in all numeric columns 2 decimal places
```

```
df_new <- df %>% mutate(across(where(is.numeric),  
round, 2))
```

```
#view updated data frame
```

```
df_new
```

```
store sales returns promos
```

```
1 A 4.35 1.23 12.11
```

```
2 A 6.55 2.67 14.46
```

```
3 A 7.54 3.44 10.28
```

```
4 B 9.22 6.54 23.51
```

```
5 B 4.33 8.11 20.10
```

```
6 C 9.55 8.00 29.34
```

```
7 C 8.01 7.54 30.10
```

8 C 7.20 6.00 45.60

Notice that the values in all three numeric columns of the data frame have been rounded to 2 decimal places.

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