

# How to Use PySpark When with OR Conditions to Create New Columns

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## RECOMMENDED CITATION

stats writer (2026). *How to Use PySpark When with OR Conditions to Create New Columns*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=126582>



```

+----+-----+-----+
|team|position|points|
+----+-----+-----+
| A| Guard| 11|
| A| Guard| 8|
| A| Forward| 22|
| A| Forward| 22|
| B| Guard| 14|
| B| Guard| 14|
| B| Forward| 13|
| B| Forward| 7|
+----+-----+-----+

```

We can use the following syntax to create a new column named **B10** that returns **1** if the **team** is A or the **points** is greater than 10, or **0** otherwise:

```
import pyspark.sql.functions as F
```

```
#create new DataFrame
```

```
df_new = df.withColumn('B10', F.when((df.team=='A') | (df.points>10), 1).otherwise(0))
```

```
#view new DataFrame
```

```
df_new.show()
```

```

+----+-----+-----+----+
|team|position|points|B10|
+----+-----+-----+----+
| A| Guard| 11| 1|
| A| Guard| 8| 0|
| A| Forward| 22| 1|
| A| Forward| 22| 1|
| B| Guard| 14| 1|
| B| Guard| 14| 1|
| B| Forward| 13| 1|
| B| Forward| 7| 1|
+----+-----+-----+----+

```

Notice that all of the values in the **B10** column that meet either condition receive a value of **1**.

Only one row doesn't meet either condition, which is the one row that received a value of **0**.

Also note that you could return 'Yes' or 'No' instead of **1** and **0** by using the following syntax:

```
import pyspark.sql.functions as F
```

```
#create new DataFrame
```

```
df_new = df.withColumn('B10', F.when((df.team=='B') | (df.points>10), 'Yes').otherwise('No'))
```

```
#view new DataFrame
```

```
df_new.show()
```

```
+---+-----+-----+---+
|team|position|points|B10|
+---+-----+-----+---+
| A| Guard| 11|Yes|
| A| Guard| 8| No|
| A| Forward| 22|Yes|
| A| Forward| 22|Yes|
| B| Guard| 14|Yes|
| B| Guard| 14|Yes|
| B| Forward| 13|Yes|
| B| Forward| 7|Yes|
+---+-----+-----+---+
```

The new **B10** column now returns 'Yes' or 'No' instead of **1** or **0**.

Feel free to return whatever values you'd like by specifying them in the **when** and **otherwise** functions.

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

[PySpark: How to Use When with AND Condition](#)