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[PySpark – Create a DataFrame](https://sparkbyexamples.com/py-spark/create-a-dataframe/)
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PySpark When Otherwise | SQL Case When Usage

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[FAQ's PySpark When Otherwise and SQL Case When questions/](https://sparkbyexamples.com/pyspark/when-otherwise-and-sql-case-when-questions/)

[More Languages/PySpark supports a way to check multiple conditions in sequence and returns a value when the first condition met by using **SQL like case when** and **when\(\).otherwise\(\)** expressions, these works similar to "Switch" and "if then else" statements.](https://sparkbyexamples.com/py-spark/pyspark-what-is-sparksession/)

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- [Using "When Otherwise" on DataFrame.](#)
- [PySpark SQL "Case When" on DataFrame.](#)
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(<https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/>)

[PySpark – Column Class](#)
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[PySpark – select\(\)](#)
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(<https://sparkbyexamples.com/pyspark/pyspark-collect/>)

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(<https://sparkbyexamples.com/pyspark/pyspark-rename-dataframe-column/>)

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(<https://sparkbyexamples.com/pyspark/pyspark-where-filter/>)

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(<https://sparkbyexamples.com/pyspark/pyspark-distinct-to-drop-duplicates/>)

[PySpark – orderBy\(\) and sort\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-orderby-sort/>)

PySpark When Otherwise – `when()` is a SQL function that returns a Column type and `otherwise()` is a function of Column, if `otherwise()` is not used, it returns a None/NULL value.

PySpark SQL Case When – This is similar to SQL expression, Usage: `CASE WHEN cond1 THEN result WHEN cond2 THEN result... ELSE result END`.

First, let's [create a DataFrame](#)
(<https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/>)

```
from pyspark.sql import SparkSession
spark = SparkSession.builder.appName("PySpark").getOrCreate()
data = [("James", "M", 60000), ("Michael", "M", 70000), ("Robert", None, 400000), ("Maria", "F", 500000), ("Jen", "", None)]
```

```
columns = ["name", "gender", "salary"]
df = spark.createDataFrame(data = data, schema = StructType([StructField(c, StringType() if c in ["name", "gender"] else IntegerType(), True) for c in columns]))
df.show()
```

```
+-----+-----+-----+
|  name|gender|salary|
+-----+-----+-----+
| James|    M| 60000|
|Michael|    M| 70000|
| Robert| null|400000|
| Maria|    F|500000|
|   Jen|    |   null|
+-----+-----+-----+
```

1. Using `when()` `otherwise()` on PySpark DataFrame.

PySpark `when()` is SQL function, in order to use this first you should import and this returns a Column type, `otherwise()` is a function of Column, when `otherwise()` not used and none of the conditions met it assigns None (Null) value. Usage would be like `when(condition).otherwise(default)`.

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[PySpark – join\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-join-explained-with-examples/\)](#)

[PySpark – union\(\). & unionAll\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-union-and-unionall/\)](#)

[PySpark – unionByName\(\).
\(https://sparkbyexamples.com/spark/spark-merge-two-dataframes-with-different-columns/\)](#)

[PySpark – UDF \(User Defined Function\).
\(https://sparkbyexamples.com/pyspark/pyspark-udf-user-defined-function/\)](#)

[PySpark – map\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-map-transformation/\)](#)

[PySpark – flatMap\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-flatmap-transformation/\)](#)

[pyspark – foreach\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-loop-iterate-through-rows-in-dataframe/#use-foreach-loop-through-dataframe\)](#)

[PySpark – sample\(\) vs sampleBy\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-sampling-example/\)](#)

[PySpark – fillna\(\) & fill\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-fillna-fill-replace-null-values/\)](#)

[PySpark – pivot\(\).\(Row to Column\).
\(https://sparkbyexamples.com/pyspark/pyspark-pivot-and-unpivot-dataframe/\)](#)

[PySpark – partitionBy\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-partitionby-example/\)](#)

[PySpark – ArrayType Column \(Array\).
\(https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/\)](#)

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when() function take 2 parameters, first param takes a condition and second takes a literal value or Column, if condition evaluates to true then it returns a value from second param.

The below code snippet replaces the value of gender with a new derived value, when conditions not matched, we are assigning “Unknown” as value, for null assigning empty.

```
from pyspark.sql.functions import when, col
df2 = df.withColumn("new_gender", when(col("gender") == "M", "Male").when(col("gender") == "F", "Female").otherwise(""))

df2.show()
+-----+-----+-----+-----+
|  name |gender|salary|new_gender|
+-----+-----+-----+-----+
|  James|    M | 60000 |      Male|
|Michael|    M | 70000 |      Male|
| Robert| null |400000 |          |
|  Maria|    F |500000 |     Female|
|   Jen |    |   null |          |
+-----+-----+-----+-----+
```

Using with select()

```
df2=df.select(col("*"),when(df.gender == "M", "Male").when(df.gender == "F", "Female").otherwise(df.gender))
```

This yields same output as above.

2. PySpark SQL Case When on DataFrame.

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[PySpark – MapType \(Map/Dict\)](https://sparkbyexamples.com/pyspark/pyspark-maptypes-dict-examples/)
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PySpark SQL Functions

[PySpark – Aggregate Functions](https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/)
(<https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/>).

[PySpark – Window Functions](https://sparkbyexamples.com/pyspark/pyspark-window-functions/)
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[PySpark – Date and Timestamp Functions](https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/)
([https://sparkbyexamples.com/pyspark-sql-date-and-timestamp-functions/](https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/)).

[PySpark – JSON Functions](https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/)
([https://sparkbyexamples.com/pyspark-pyspark-json-functions-with-examples/](https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/)).

PySpark Datasources

[PySpark – Read & Write CSV File](https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/)
(<https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/>).

[PySpark – Read & Write Parquet File](https://sparkbyexamples.com/pyspark/pyspark-read-and-write-parquet-file/)
(<https://sparkbyexamples.com/pyspark/pyspark-read-and-write-parquet-file/>).

[PySpark – Read & Write JSON file](https://sparkbyexamples.com/pyspark/pyspark-read-json-file-into-dataframe/)
(<https://sparkbyexamples.com/pyspark/pyspark-read-json-file-into-dataframe/>).



If you have a SQL background you might have familiar with [Case When statement](https://www.w3schools.com/sql/sql_case.asp) (https://www.w3schools.com/sql/sql_case.asp) that is used to execute a sequence of conditions and returns a value when the first condition met, similar to SWITCH and IF THEN ELSE statements. Similarly, PySpark SQL Case When statement can be used on DataFrame, below are some of the examples of using with withColumn(), select(), selectExpr() utilizing expr() function.

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Syntax of SQL CASE WHEN ELSE END

```
CASE
  WHEN condition1 THEN result_val
  WHEN condition2 THEN result_val
  ----
  ----
  ELSE result
END;
```

- **CASE** is the start of the expression
- Clause **WHEN** takes a condition, if condition true it returns a value from **THEN**
If the condition is false it goes to the next condition and so on.
If none of the condition matches, it returns a value from the **ELSE** clause.
END is to end the expression

2.1 Using Case When Else on DataFrame using withColumn() & select()

Below example uses [PySpark SQL expr\(\) Function](https://sparkbyexamples.com/pyspark/pyspark-sql-expr-expression-function/) (<https://sparkbyexamples.com/pyspark/pyspark-sql-expr-expression-function/>) to express SQL like expressions.



PySpark Built-In Functions

[PySpark – when\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-when-otherwise/\)](https://sparkbyexamples.com/pyspark/pyspark-when-otherwise/)

[PySpark – expr\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-sql-expr-expression-function/\)](https://sparkbyexamples.com/pyspark/pyspark-sql-expr-expression-function/)

[PySpark – lit\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/\)](https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/)

[PySpark – split\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-convert-string-to-array-column/\)](https://sparkbyexamples.com/pyspark/pyspark-convert-string-to-array-column/)

[PySpark – concat_ws\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-convert-array-column-to-string-column/\)](https://sparkbyexamples.com/pyspark/pyspark-convert-array-column-to-string-column/)

[Pyspark – substring\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-substring-from-a-column/\)](https://sparkbyexamples.com/pyspark/pyspark-substring-from-a-column/)

[PySpark – translate\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#translate-replace-character-by-character\)](https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#translate-replace-character-by-character)

[PySpark – regexp_replace\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-replace-column-regex/\)](https://sparkbyexamples.com/pyspark/pyspark-replace-column-regex/)

```
from pyspark.sql.functions import col, when, otherwise

#Using Case When on withColumn()
df3 = df.withColumn("new_gender", when(col("gender") == "F", "Female").otherwise("Male"))
df3.show(truncate=False)

+-----+-----+-----+-----+
|name   |gender|salary|new_gender|
+-----+-----+-----+-----+
|James  |M     |60000  |Male      |
|Michael|M     |70000  |Male      |
|Robert |null  |400000 |           |
|Maria  |F     |500000 |Female    |
|Jen    |      |null   |           |
+-----+-----+-----+-----+

#Using Case When on select()
df4 = df.select(col("*"), expr("CASE WHEN gender = 'F' THEN 'Female' ELSE gender END").alias("new_gender"))
```

2.2 Using Case When on SQL Expression

You can also use Case When with SQL statement after creating a temporary view. This returns a similar output as above.

```
df.createOrReplaceTempView("EMP")
spark.sql("select name, CASE WHEN gender = 'F' THEN 'Female' ELSE gender END as new_gender from EMP").show()
```

2.3. Multiple Conditions using & and | operator

We often need to check with multiple conditions, below is an example of using PySpark When Otherwise with multiple conditions by using and (&) or (|) operators. To explain this I will use a new set of data to make it simple.

```
df5.withColumn("new_column", when((col("code") == "b" & col("id") == 1), "A1").otherwise("A2")).show()
```

Output:

[values/#regex_replace-replace-string-columns](#)).

[PySpark – overlay\(\)](#).
(<https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#overlay-function>).

[PySpark – to_timestamp\(\)](#).
(https://sparkbyexamples.com/spark/pyspark-to_timestamp-convert-string-to-timestamp-type/).

[PySpark – to_date\(\)](#).
([https://sparkbyexamples.com/pyspark-to_date-convert-timestamp-to-date/](https://sparkbyexamples.com/pyspark/pyspark-to_date-convert-timestamp-to-date/)).

[PySpark – date_format\(\)](#).
([https://sparkbyexamples.com/pyspark-date_format-convert-date-to-string-format/](https://sparkbyexamples.com/pyspark/pyspark-date_format-convert-date-to-string-format/)).

[PySpark – datediff\(\)](#).
([https://sparkbyexamples.com/pyspark-pyspark-difference-between-two-dates-days-months-years/#datediff](https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#datediff)).

[PySpark – months_between\(\)](#).
([https://sparkbyexamples.com/pyspark-pyspark-difference-between-two-dates-days-months-years/#months_between\(\)](https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#months_between())).

[PySpark – explode\(\)](#).
([https://sparkbyexamples.com/pyspark-pyspark-explode-nested-array-into-rows/](https://sparkbyexamples.com/pyspark/pyspark-explode-nested-array-into-rows/)).

[PySpark – array_contains\(\)](#).
([https://sparkbyexamples.com/pyspark-pyspark-arraytype-column-with-examples/#array_contains](https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/#array_contains)).

[PySpark – array\(\)](#).
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[PySpark – collect_list\(\)](#).
([https://sparkbyexamples.com/pyspark-pyspark-aggregate-functions/#collect-list](https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/#collect-list)).

[PySpark – collect_set\(\)](#).
([https://sparkbyexamples.com/pyspark-pyspark-aggregate-functions/#collect-set](https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/#collect-set)).

[PySpark – create_map\(\)](#).
([https://sparkbyexamples.com/pyspark-pyspark-convert-dataframe-columns-to-maptype-dict/](https://sparkbyexamples.com/pyspark/pyspark-convert-dataframe-columns-to-maptype-dict/)).

[PySpark – map_keys\(\)](#).
([https://sparkbyexamples.com/pyspark-pyspark-maptype-dict-examples/#map_keys](https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/#map_keys)).

[PySpark – map_values\(\)](#).
(<https://sparkbyexamples.com/pyspark>).

```
+---+---+---+-----+
| id|code|amt|new_column|
+---+---+---+-----+
| 66|  a |  4|         A|
| 67|  a |  0|         A|
| 70|  b |  4|         B|
| 71|  d |  4|         A|
+---+---+---+-----+
```

Complete Example – PySpark When Otherwise | SQL Case When

```
from pyspark.sql import SparkSession
spark = SparkSession.builder.appName('When Otherwise').getOrCreate()
data = [("James", "M", 60000), ("Michael", "F", 70000),
        ("Robert", None, 40000), ("Jen", "", None)]
```

```
columns = ["name", "gender", "salary"]
df = spark.createDataFrame(data = data, schema = columns)
df.show()
```

#Using When otherwise

```
from pyspark.sql.functions import when, col
df2 = df.withColumn("new_gender", when(col("gender") == "M", "Male")
                                     .when(col("gender") == "F", "Female")
                                     .otherwise("Other"))
```

```
df2.show()
```

```
df2=df.select(col("*"),when(df.gender=="M","Male").when(df.gender=="F","Female").otherwise(df.gender).alias("new_gender"))
```

```
df2.show()
```

Using SQL Case When

```
from pyspark.sql.functions import col
df3 = df.withColumn("new_gender", case("gender",
                                       "WHEN gender = 'F' THEN 'Female'"
                                       "ELSE gender END"))
```

```
df3.show()
```

```
df4 = df.select(col("*"), expr("CASE WHEN gender = 'F' THEN 'Female'"
                                "ELSE gender END").alias("new_gender"))
```

```
df.createOrReplaceTempView("EMP")
spark.sql("select name, CASE WHEN gender = 'F' THEN 'Female'"
          "ELSE gender END as new_gender from EMP").show()
```

Conclusion:

[ark/pyspark-maptypes-dict-examples/#map_values](#)

[PySpark – struct\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/#update-struct-function>)

[PySpark – countDistinct\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-count-distinct-from-dataframe/>)

[PySpark – sum\(\), avg\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-dataframe-groupby-and-sort-by-descending-order/>)

[PySpark – row_number\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-window-functions/#row_number)

[PySpark – rank\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-window-functions/#rank>)

[PySpark – dense_rank\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-window-functions/#dense_rank)

[PySpark – percent_rank\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-window-functions/#percent_rank)

[PySpark – typedLit\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/#typedlit>)

[PySpark – from_json\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#from_json)

[PySpark – to_json\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#to_json)

[PySpark – json_tuple\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#json_tuple)

[PySpark – get_json_object\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#get_json_object)

[PySpark – schema_of_json\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#schema_of_json)


In this article, you have learned how to use Pyspark SQL “case when” and “when otherwise” on Dataframe by leveraging example like checking with NULL/None, applying with multiple conditions using AND (&), OR (|) logical operators. I hope you like this article.


Happy Learning !!

References

- <https://spark.apache.org/docs/2.1.0/api/python/pyspark.sql.html>
(<https://spark.apache.org/docs/2.1.0/api/python/pyspark.sql.html>)

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