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Apache Spark

tutorials-with-examples/amples.com/category/spark/)

FAQ's Likhet (\$QV/s'pcanske) webeen in patease once in its apreal k-"Swith", "if then else" statement from popular programming languages, (https://sparkbyexamples.com/questions/)ark SQL Dataframe also supports similar syntax using "when otherwise" or we can also use "case when" More *statement//spackbyexamplesmon

> how to check for multiple conditions and replicate SQL CASE statement.



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<u>Spark RDD – Persistance</u>
<u>Storage Levels</u>
(https://sparkbyexamples.com/spark/spark-persistence-storage-levels/)

Ad removed. Details

- Using "when otherwise" on DataFrame.
- Using "case when" on DataFrame.
- Using && and || operator

First Let's do the imports that are needed and create spark context and DataFrame

(https://sparkbyexamples.com/spark/diffe rent-ways-to-create-a-spark-dataframe/).

Using "when otherwise" on Spark DataFrame.

when is a Spark function, so to use it first we should import using import org.apache.spark.sql.functions.w hen before. Above code snippet





<u>Spark RDD – Broadcast</u>
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<u>spark/spark-broadcast-</u>
variables/)

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Spark RDD – Convert RDD to DataFrame (https://sparkbyexamples.com/apache-spark-rdd/convert-spark-rdd-to-dataframe-dataset/)

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Spark SQL - Create

DataFrame
(https://sparkbyexamples.com/
spark/different-ways-to-createa-spark-dataframe/)

<u>Spark SQL – Select Columns</u> (<u>https://sparkbyexamples.com/spark/spark-select-columns-from-dataframe/)</u>

<u>Spark SQL – Add and Update</u>
<u>Column (withColumn)</u>
(https://sparkbyexamples.com/spark/spark-dataframe-withcolumn/)

<u>Spark SQL – Rename Nested</u> <u>Column</u>

(https://sparkbyexamples.com/spark/rename-a-column-on-spark-dataframes/)

<u>Spark SQL – Drop column</u> (<u>https://sparkbyexamples.com/spark/spark-drop-column-from-dataframe-dataset/)</u>

<u>Spark SQL – Where | Filter</u> (https://sparkbyexamples.com/ <u>spark/spark-dataframe-where-filter/)</u>

<u>Spark SQL – When Otherwise</u> (https://sparkbyexamples.com/ <u>spark/spark-case-when-otherwise-example/)</u> replaces the value of gender with new derived value, when value not qualified with the condition, we are assigning "Unknown" as value.

when can also be used on Spark SQL select statement.

Using "case when" on Spark DataFrame.

Similar to SQL syntax, we could use "case when" with expression expr() .

LIVE BLOG

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FINALS TAKE CENTRE STAGE.



Using within SQL select.







<u>Spark SQL – Collect data to</u>
<u>Driver</u>
(https://sparkbyexamples.com/spark/spark-dataframe-collect/)

<u>Spark SQL – Distinct</u> (<u>https://sparkbyexamples.com/spark/spark-remove-duplicate-rows/)</u>

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<u>DataFrame</u>
(https://sparkbyexamples.com/
spark/how-to-pivot-table-andunpivot-a-spark-dataframe/)

<u>Spark SQL – Data Types</u> (https://sparkbyexamples.com/ <u>spark/spark-sql-dataframe-data-types/</u>)

<u>Spark SQL – StructType |</u>
<u>StructField</u>
(https://sparkbyexamples.com/
<u>spark/spark-sql-structtype-on-</u>
dataframe/)

<u>Spark SQL – Schema</u> (https://sparkbyexamples.com/ <u>spark/spark-schema-explained-with-examples/)</u>

<u>Spark SQL – Groupby</u> (https://sparkbyexamples.com/ spark/using-groupby-ondataframe/)

<u>Spark SQL – Sort DataFrame</u> (https://sparkbyexamples.com/ <u>spark/spark-how-to-sort-dataframe-column-explained/)</u>

<u>Spark SQL – Join Types</u> (https://sparkbyexamples.com/ spark/spark-sql-dataframejoin/)

Spark SQL – Union and UnionAll (https://sparkbyexamples.com/spark/spark-dataframe-union-and-union-all/)

<u>Spark SQL - map() vs</u> <u>mapPartitions()</u> (<u>https://sparkbyexamples.com/spark/spark-map-vs-mappartitions-transformation/)</u>

3. Using && and || operator

We can also use and (&&) or (||) within when function. To explain this I will use a new set of data to make it simple.

Output:

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

Conclusion:

In this article, we have learned how to use spark "case when" using expr() function and "when otherwise" function on Dataframe also, we've learned how to use these functions with && and || logical operators. I hope you like this article.

Happy Learning !!



<u>Spark SQL - foreach() vs</u> <u>foreachPartition()</u> (https://sparkbyexamples.com/ <u>spark/spark-foreachpartition-vs-foreach-explained/)</u>

<u>Spark SQL - map() vs</u> <u>flatMap()</u> (<u>https://sparkbyexamples.com/spark/spark-map-vs-flatmap-with-examples/)</u>

<u>Spark SQL – Persist and</u> <u>Cache</u>

(https://sparkbyexamples.com/spark/spark-dataframe-cache-and-persist-explained/)

<u>Spark SQL – UDF (User Defined Functions)</u>
(https://sparkbyexamples.com/spark/spark-sql-udf/)

<u>Spark SQL – Array (ArrayType)</u> <u>Column</u> <u>(https://sparkbyexamples.com/</u>

(https://sparkbyexamples.com/ spark/spark-array-arraytypedataframe-column/)

<u>Spark SQL – Map (MapType)</u> <u>column</u>

(https://sparkbyexamples.com/spark/spark-dataframe-map-maptype-column/)

<u>Spark SQL – Flatten Nested</u>
<u>Struct Column</u>
(https://sparkbyexamples.com/spark/spark-flatten-nested-struct-column/)

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<u>Array Column</u>
(https://sparkbyexamples.com/spark/spark-flatten-nested-array-column-to-single-column/)

<u>Spark SQL – Explode Array & Map Columns</u>
(https://sparkbyexamples.com/
<u>spark/explode-spark-array-and-map-dataframe-column/)</u>

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<u>Spark SQL – Partitioning</u>
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<u>Spark SQL String Functions</u> (<u>https://sparkbyexamples.com/spark/usage-of-spark-sql-string-functions/</u>)

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nausheen aafreen

2 MAY 2021 REPLY

I really love the contents. They are self explanatory. I am very happy that you have shared so much to learn ,for people like me who have no idea about spark.

You are amazing <3



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Spark – Read & Write Avro files (Spark version 2.3.x or earlier) (https://sparkbyexamples.com/ spark/using-avro-data-filesfrom-spark-sql-2-3-x/)

<u>Spark – Read & Write HBase</u> <u>using "hbase-spark" Connector</u> (https://sparkbyexamples.com/ <u>spark/spark-read-write-using-hbase-spark-connector/)</u>

<u>Spark – Read & Write from HBase using Hortonworks</u>
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<u>Spark – Read & Write ORC file</u> (https://sparkbyexamples.com/ <u>spark/spark-read-orc-file-into-dataframe/)</u>

<u>Spark – Read Binary File</u> (https://sparkbyexamples.com/ <u>spark/spark-read-binary-file-</u> into-dataframe/)

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<u>Spark Streaming –</u>
<u>OutputModes</u>
(https://sparkbyexamples.com/
spark/spark-streamingoutputmode/)



NNK 3 MAY 2021 REPLY

Hi Nausheen, Thanks for your comments. I am happy it serving the purpose.



Anonymous

29 APR 2021 REPLY

good article for experienced folks as well



Anonymous

4 NOV 2020 REPLY

how to use 3. Using && and || operator in using string expressions



Naveen V

13 FEB 2020 REPLY

Very useful information for beginners to practice.
Thanks for your information.



Maha 12 JAN 2020 REPLY

Very nice article.



NNK 12 JAN 2020 REPLY

Thanks for reading.

<u>Spark Streaming – Reading</u> <u>Files From Directory</u> (https://sparkbyexamples.com/ <u>spark/spark-streaming-read-</u> <u>json-files-from-directory/)</u>

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<u>Kafka Messages in JSON</u>
<u>Format</u>
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Spark Streaming – Processing Kafka messages in AVRO Format (https://sparkbyexamples.com/ spark/spark-streamingconsume-and-produce-kafkamessages-in-avro-format/)

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