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Use to_timestamp() function to convert String to Timestamp (TimestampType)-in PySpark. The converted time would be in a default format of MM-dd-yyyy HH:mm:ss.SSS, I will explain how to use this function with a few examples.



Syntax - to_timestamp()

Syntax: to timestamp(timestampStrir Syntax: to timestamp(timestampString)

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

<u>Spark SQL – Add and Update</u> Column (withColumn) This function has above two signatures that defined in PySpark SQL Date & Timestamp Functions

(https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/), the first syntax takes just one argument and the argument should be in Timestamp format 'MM-dd-yyyy HH:mm:ss.SSS', when the format is not in this format, it returns null.

The second signature takes an additional String argument to specify the format of the input Timestamp; this support formats specified in SimeDateFormat
(https://docs.oracle.com/en/java/javase/13/docs/api/java.base/java/text/SimpleDateFormat.html). Using this additional argument, you can cast String from any format to Timestamp type in PySpark.

Convert String to PySpark Timestamp type

In the below example we convert the string pattern which is in PySpark default format to Timestamp type, since the input DataFrame column is in default Timestamp format, we use the first signature for conversion. And the second example uses the cast function to do the same.

In this snippet, we just add a new column timestamp by converting the input column from string to Timestamp type. (https://sparkbyexamples.com/spark/spark-dataframe-withcolumn/)

<u>Spark SQL – Rename Nested</u> <u>Column</u> (<u>https://sparkbyexamples.com</u>

(https://sparkbyexamples.com/sp ark/rename-a-column-on-sparkdataframes/)

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

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

<u>Spark SQL – When Otherwise</u> (https://sparkbyexamples.com/spark/spark-case-when-otherwise-example/)

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

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

<u>Spark SQL- Pivot Table</u> <u>DataFrame</u>

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

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

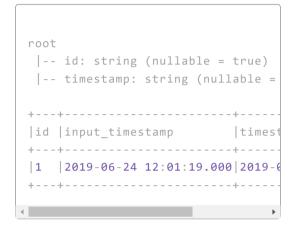
<u>Spark SQL – Sort DataFrame</u> (https://sparkbyexamples.com/spark/spark-how-to-sort-dataframe-column-explained/)</u>

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

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

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Custom string format to Timestamp type

This example converts input timestamp string from custom format to PySpark Timestamp type, to do this, we use the second syntax where it takes an additional argument to specify user-defined patterns for date-time formatting,



In case if you want to convert string to date format

(https://sparkbyexamples.com/spark/convert-string-to-date-format-spark-sql/) use to_date() function. And here is another example to convert Timestamp to custom string pattern format (https://sparkbyexamples.com/spark/spark-convert-timestamp-to-string/).



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

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

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

<u>Spark SQL – Persist and Cache</u> (https://sparkbyexamples.com/spark/spark-dataframe-cache-and-persist-explained/)

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

Spark SQL – Array (ArrayType).
Column
(https://sparkbyexamples.com/spark/spark-array-arraytype-dataframe-column/).

<u>Spark SQL – Map (MapType)</u> <u>column</u> (<u>https://sparkbyexamples.com/spark/spark-dataframe-map-</u> maptype-column/)

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

Spark SQL – Flatten Nested
Array Column
(https://sparkbyexamples.com/spark/spark-flatten-nested-array-column-to-single-column/)

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

<u>Spark SQL – Sampling</u> (<u>https://sparkbyexamples.com/spark/spark-sampling-with-examples/</u>)

<u>Spark SQL – Partitioning</u> (https://sparkbyexamples.com/spark/spark-partitioningunderstanding/)</u>

Spark SQL Functions

<u>Spark SQL String Functions</u> (<u>https://sparkbyexamples.com/sp</u>

SQL Example

```
#SQL string to TimestampType
spark.sql("select to_timestamp('201
#SQL CAST timestamp string to Times
spark.sql("select timestamp('2019-0')
#SQL Custom string to TimestampType
spark.sql("select to_timestamp('06-
```

Complete Example for quick reference

```
from pyspark.sql import SparkSessid
# Create SparkSession
spark = SparkSession.builder \
          .appName('SparkByExamples
          .getOrCreate()
from pyspark.sql.functions import
df=spark.createDataFrame(
        data = [("1","2019-06-24]
        schema=["id","input_timesta
df.printSchema()
#Timestamp String to DateType
df.withColumn("timestamp", to timest
  .show(truncate=False)
# Using Cast to convert TimestampTy
df.withColumn('timestamp', \
         to_timestamp('input_timest
  .show(truncate=False)
df.select(to_timestamp(lit('06-24-2
  .show(truncate=False)
#SQL string to TimestampType
spark.sql("select to_timestamp('201
#SQL CAST timestamp string to Times
spark.sql("select timestamp('2019-6
#SQL Custom string to TimestampTyp€
spark.sql("select to timestamp('06-
```

Happy Learning !!

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PySpark SQL – How to Get Current Date
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ark/usage-of-spark-sql-stringfunctions/)

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

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

- (https://sparkbyexamples.com/pyspark/pyspark-current-date-timestamp/)
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