Spark by {Examplesparkht/pthtt/pst//aptarkhyexamplescom/pm/)

PySpark Tutorial

Py\$park (https://sparkbyexamples.com/pyspark-

PySpark Tutorial For

Beginners

(https://sparkbyexamples.com/utorial/) pyspark-tutorial/)

PySpark - Features

pyspark-tutorial/#features)

PySpark - Advantages (https://sparkbyexamples.com/

pyspark-tutorial/#advantages)

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PySpark - Modules &

<u>Packages</u>

(https://sparkbyexamples.com/

pyspark-tutorial/#modules-

packages)

HBase P(https://sparkbyexamples.com/apache-

DataFrame with

hbase-tuterial/)mples

PySpark - Cluster Managers

pyspark-tutorial/#cluster-

manager)

(https://sparkbyexamples.com/ Kafka (https://sparkbyexamples.com/apache-

(https://sparkbyexamples.com/author/admin/) -

PySpark

PySpark - Install on Windowskafka-tutorials-registry by his examples com/category/pyspark/)

(https://sparkbyexamples.com/

PySpark - Web/Application UI (https://sparkbyexamples.com/

pyspark-tutorial/#pyspark-

installation)

FAQ's Youthan /namenally/encentreple By Spra/spark-

DataFrame using toDF() and

createDataFrame() methods, both

questions ese function takes different

signatures in order to create DataFrame from existing RDD, list, and DataFrame.

(https://sparkbyexamples.com/ More ➤ (https://sparkbyexamples.com/)Q

PySpark - SparkSession

spark/spark-web-ui-

understanding/)

pyspark/pyspark-what-is-

sparksession/)

PySpark - RDD

(https://sparkbyexamples.com/

pyspark-rdd)

PySpark - Parallelize

(https://sparkbyexamples.com/ pyspark/pyspark-parallelize-

create-rdd/)

PySpark - repartition() vs coalesce()

(https://sparkbyexamples.com/

pyspark/pyspark-repartitionvs-coalesce/)

PySpark - Broadcast

(https://sparkbyexamples.com/ pyspark/pyspark-broadcast-

<u>Variables</u> variables/) You can also create PySpark DataFrame from data sources like TXT, CSV, JSON, ORV, Avro, Parquet, XML formats by reading from HDFS, S3, DBFS, Azure Blob file systems e.t.c.

Related:

- Fetch More Than 20 Rows & Column Full Value in DataFrame (https://sparkbyexamples.com/spark/ spark-fetch-more-than-20-rows-fullcolumn-value/)
- · Get Current Number of Partitions of Spark DataFrame (https://sparkbyexamples.com/spark/ spark-get-current-number-ofpartitions-of-dataframe/)

<u>PySpark – Accumulator</u> (https://sparkbyexamples.com/ <u>pyspark/pyspark-accumulator-with-example/)</u>

PySpark DataFrame

<u>PySpark – Create a</u> <u>DataFrame</u>

(https://sparkbyexamples.com/ pyspark/different-ways-tocreate-dataframe-in-pyspark/)

<u>PySpark – Create an empty</u> <u>DataFrame</u>

(https://sparkbyexamples.com/ pyspark/pyspark-create-anempty-dataframe/)

<u>PySpark – Convert RDD to</u> <u>DataFrame</u>

(https://sparkbyexamples.com/ pyspark/convert-pyspark-rddto-dataframe/)

<u>PySpark – Convert DataFrame</u> <u>to Pandas</u>

(https://sparkbyexamples.com/ pyspark/convert-pysparkdataframe-to-pandas/)

<u>PySpark – show()</u>
(https://sparkbyexamples.com/
<u>pyspark/pyspark-show-display-</u>
dataframe-contents-in-table/)

<u>PySpark – StructType &</u>
<u>StructField</u>
(https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/)

<u>PySpark – Row Class</u> (https://sparkbyexamples.com/ <u>pyspark/pyspark-row-using-</u> rdd-dataframe/)

<u>PySpark – Column Class</u> (https://sparkbyexamples.com/ <u>pyspark/pyspark-column-</u> functions/)

<u>PySpark – select()</u>
(https://sparkbyexamples.com/
pyspark/select-columns-frompyspark-dataframe/)</u>

<u>PySpark – collect()</u>
(https://sparkbyexamples.com/
pyspark/pyspark-collect/)</u>

<u>PySpark – withColumn()</u> (https://sparkbyexamples.com/ pyspark/pyspark-withcolumn/)</u> How to check if Column Present in Spark DataFrame (https://sparkbyexamples.com/spark/ spark-check-column-present-in-dataframe/)

Finally, PySpark DataFrame also can be created by reading data from RDBMS Databases and NoSQL databases.

In this article, you will learn creating DataFrame by some of these methods with PySpark examples.

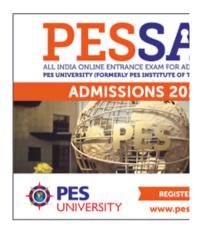


Table of Contents

- Create DataFrame from RDD
 - toDF()
 - createDataFrame()
- Create DataFrame from the list of data
- Create DataFrame from Data sources
 - Creating from CSV file
 - Creating from TXT file
 - Creating from JSON file
- Other sources (Avro, Parquet, ORC e.t.c)

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F

createDataFrame(rdd)
createDataFrame(dataList)
createDataFrame(rowData,columns)
createDataFrame(dataList,schema)

PvSpark Create DataFrame matrix

In order to create a DataFrame from a list we need the data hence, first, let's create the data and the columns that are needed.

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<u>PySpark –</u>
<u>withColumnRenamed()</u>
(<u>https://sparkbyexamples.com/</u>
<u>pyspark/pyspark-rename-</u>
dataframe-column/)

<u>PySpark – where() & filter()</u> (https://sparkbyexamples.com/ pyspark/pyspark-where-filter/)

PySpark – drop() & dropDuplicates() (https://sparkbyexamples.com/pyspark/pyspark-distinct-to-drop-duplicates/)

<u>PySpark – orderBy() and sort()</u> (https://sparkbyexamples.com/ <u>pyspark/pyspark-orderby-and-</u> sort-explained/)

<u>PySpark – groupBy()</u>
(https://sparkbyexamples.com/
pyspark/pyspark-groupbyexplained-with-example/)</u>

<u>PySpark – join()</u>
(https://sparkbyexamples.com/
pyspark/pyspark-joinexplained-with-examples/)</u>

<u>PySpark – union() & unionAll()</u> (https://sparkbyexamples.com/ <u>pyspark/pyspark-union-and-unionall/)</u>

<u>PySpark – unionByName()</u>
(https://sparkbyexamples.com/
spark/spark-merge-twodataframes-with-differentcolumns/)

<u>PySpark – UDF (User Defined Function)</u> (https://sparkbyexamples.com/pyspark/pyspark-udf-user-defined-function/)</u>

<u>PySpark – map()</u>
(https://sparkbyexamples.com/
pyspark/pyspark-maptransformation/)

<u>PySpark – flatMap()</u>
(https://sparkbyexamples.com/
pyspark/pyspark-flatmaptransformation/)

pyspark – foreach() (https://sparkbyexamples.com/ pyspark/pyspark-loop-iteratethrough-rows-indataframe/#use-foreach-loopthrough-dataframe)

<u>PySpark – sample() vs</u> <u>sampleBy()</u>

```
columns = ["language","users_columns = [("Java", "20000"), ("Py")
```

1. Create DataFrame

from RDD

One easy way to manually create
PySpark DataFrame is from an existing
RDD. first, let's create a Spark RDD
(https://sparkbyexamples.com/spark/diff
erent-ways-to-create-spark-rdd/) from a
collection List by calling parallelize()
(https://sparkbyexamples.com/pyspark/
pyspark-parallelize-create-rdd/) function
from SparkContext
(https://sparkbyexamples.com/spark/sp
ark-sparkcontext/). We would need this
rdd object for all our examples below.

```
spark = SparkSession.builder.ap
rdd = spark.sparkContext.parall
```

1.1 Using toDF() function

PySpark RDD's toDF() method is used to create a DataFrame from existing RDD. Since RDD doesn't have columns, the DataFrame is created with default column names "_1" and "_2" as we have two columns.

```
dfFromRDD1 = rdd.toDF()
dfFromRDD1.printSchema()
```

printschema() yields the below output.

```
root
|-- _1: string (nullable = true
|-- _2: string (nullable = true
```

If you wanted to provide column names to the DataFrame use toDF() method with column names as arguments as shown below.

OPEN

(https://sparkbyexamples.com/ pyspark/pyspark-samplingexample/)

PySpark – fillna() & fill() (https://sparkbyexamples.com/ pyspark/pyspark-fillna-fillreplace-null-values/)

<u>PySpark – pivot() (Row to</u> Column)

(https://sparkbyexamples.com/ pyspark/pyspark-pivot-andunpivot-dataframe/)

<u>PySpark – partitionBy()</u>
(https://sparkbyexamples.com/
pyspark/pyspark-partitionbyexample/)

<u>PySpark – ArrayType Column</u> (<u>Array)</u>

(https://sparkbyexamples.com/ pyspark/pyspark-arraytypecolumn-with-examples/)

<u>PySpark – MapType</u>
(<u>Map/Dict)</u>
(<u>https://sparkbyexamples.com/pyspark/pyspark-maptype-dictexamples/)</u>

PySpark SQL Functions

<u>PySpark – Aggregate Functions</u> (https://sparkbyexamples.com/py <u>spark/pyspark-aggregate-functions/)</u>

<u>PySpark – Window Functions</u> (<u>https://sparkbyexamples.com/pyspark/pyspark-window-functions/</u>)

<u>PySpark – Date and Timestamp</u> <u>Functions</u>

(https://sparkbyexamples.com/py spark/pyspark-sql-date-andtimestamp-functions/)

<u>PySpark – JSON Functions</u> (<u>https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/</u>)

PySpark Datasources

<u>PySpark – Read & Write CSV</u> <u>File</u>

(https://sparkbyexamples.com/ pyspark/pyspark-read-csv-fileinto-dataframe/)

<u>PySpark – Read & Write</u> <u>Parquet File</u> (https://sparkbyexamples.com/

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```
columns = ["language","users_columns |
dfFromRDD1 = rdd.toDF(columns) |
dfFromRDD1.printSchema()
```

This yields schema of the DataFrame with column names.

```
root
|-- language: string (nullable
|-- users: string (nullable =
```

By default, the datatype of these columns infers to the type of data. We can change this behavior by supplying schema

(https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/), where we can specify a column name, data type, and nullable for each field/column.

1.2 Using

createDataFrame() from

SparkSession

Using createDataFrame() from SparkSession

(https://sparkbyexamples.com/tag/spark session) is another way to create manually and it takes rdd object as an argument. and chain with toDF() to specify name to the columns.

```
dfFromRDD2 = spark.createDataFr
```

<u>pyspark/pyspark-read-and-write-parquet-file/)</u>

<u>PySpark – Read & Write JSON</u>

(https://sparkbyexamples.com/ pyspark/pyspark-read-jsonfile-into-dataframe/)

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2. Create DataFrame from List Collection

In this section, we will see how to create PySpark DataFrame from a list.

These examples would be similar to t we have seen in the above section RDD, but we use the list data ct instead of "rdd" object to create aFrame.

Using ateDataFrame() from arkSession



ing createDataFrame() from rkSession is another way to te PySpark DataFrame manually, it is a list object as an argument. and in with toDF() to specify names to columns.

BTech Registrations Closing Soon

FFromData2 = spark.createDataF



ateDataFrame() with the

w type

Using

ateDataFrame() has another lature in PySpark which takes the ection of Row type and schema for lmn names as arguments. To use first we need to convert our "data" ect from the list to list of Row.



PySpark Built-In Functions

<u>PySpark – when()</u> (https://sparkbyexamples.com/py spark/pyspark-when-otherwise/)</u>

<u>PySpark – expr()</u>
(https://sparkbyexamples.com/py
spark/pyspark-sql-exprexpression-function/)

rowData = map(lambda x: Row(*x)
dfFromData3 = spark.createDataF

2.3 Create DataFrame with

schema

PySpark - lit()

(https://sparkbyexamples.com/py spark/pyspark-lit-add-literalconstant/)

PySpark - split()

(https://sparkbyexamples.com/py spark/pyspark-convert-string-toarray-column/)

PySpark – concat_ws() (https://sparkbyexamples.com/py spark/pyspark-convert-arraycolumn-to-string-column/)

<u>Pyspark – substring()</u>
(https://sparkbyexamples.com/pyspark/pyspark-substring-from-a-column/)</u>

PySpark – translate() (https://sparkbyexamples.com/py spark/pyspark-replace-columnvalues/#translate-replacecharacter-by-character)

PySpark - regexp_replace()
(https://sparkbyexamples.com/py
spark/pyspark-replace-columnvalues/#regexp_replace-replacestring-columns)

PySpark – overlay() (https://sparkbyexamples.com/py spark/pyspark-replace-columnvalues/#overlay-function)

PySpark – to_timestamp()
(https://sparkbyexamples.com/spark/pyspark-to_timestampconvert-string-to-timestamptype/)

PySpark – to_date() (https://sparkbyexamples.com/py spark/pyspark-to_date-converttimestamp-to-date/)

<u>PySpark – date_format()</u>
(https://sparkbyexamples.com/py
spark/pyspark-date_formatconvert-date-to-string-format/)

PySpark – datediff() (https://sparkbyexamples.com/py spark/pyspark-differencebetween-two-dates-daysmonths-years/#datediff)

PySpark – months_between()
(https://sparkbyexamples.com/py
spark/pyspark-differencebetween-two-dates-daysmonthsyears/#months_between())

If you wanted to specify the column names along with their data types, you should create the StructType schema first and then assign this while creating a DataFrame.

```
from pyspark.sql.types import S
data2 = [("James","","Smith","3
    ("Michael", "Rose", "", "40288
    ("Robert","","Williams","42
    ("Maria", "Anne", "Jones", "39
    ("Jen", "Mary", "Brown", "", "F
schema = StructType([ \
    StructField("firstname",Str
    StructField("middlename",St
    StructField("lastname", Stri
    StructField("id", StringTyp
    StructField("gender", Strin
    StructField("salary", Integ
  ])
df = spark.createDataFrame(data
df.printSchema()
df.show(truncate=False)
```

This yields below output.

```
root
|-- firstname: string (nullable = true)
|-- middlename: string (nullable = true)
|-- lastname: string (nullable = true)
|-- id: string (nullable = true)
|-- gender: string (nullable = true)
|-- salary: integer (nullable = true)
|-- salary: integer (nullable = true)
|-- salary: integer (nullable = true)
|-- |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- | |-- |
```

3. Create DataFrame

from Data sources

In real-time mostly you create

DataFrame from data source files like

CSV, Text, JSON, XML e.t.c.

PySpark by default supports many data formats out of the box without importing any libraries and to create DataFrame you need to use the appropriate method available in DataFrameReader class.

<u>PySpark - explode()</u>
(https://sparkbyexamples.com/pyspark/pyspark-explode-nested-array-into-rows/)</u>

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

PySpark – array().
(https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/#array).

<u>PySpark – collect_list()</u>
(https://sparkbyexamples.com/py
spark/pyspark-aggregatefunctions/#collect-list)

<u>PySpark – collect_set()</u>
(https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/#collect-set)</u>

PySpark - create_map()
(https://sparkbyexamples.com/py
spark/pyspark-convertdataframe-columns-to-maptypedict/)

PySpark – map_keys() (https://sparkbyexamples.com/py spark/pyspark-maptype-dictexamples/#map_keys)

PySpark – map_values() (https://sparkbyexamples.com/py spark/pyspark-maptype-dictexamples/#map_values)

PySpark – struct() (https://sparkbyexamples.com/py spark/pyspark-structtype-andstructfield/#update-structfunction)

<u>PySpark - countDistinct()</u>
(https://sparkbyexamples.com/pyspark/pyspark-count-distinct-from-dataframe/)</u>

PySpark – sum(), avg() (https://sparkbyexamples.com/py spark/pyspark-dataframegroupby-and-sort-bydescending-order/)

PySpark - row_number()
(https://sparkbyexamples.com/py
spark/pyspark-windowfunctions/#row_number)

<u>PySpark - rank()</u> (https://sparkbyexamples.com/py spark/pyspark-windowfunctions/#rank)

3.1 Creating DataFrame from CSV

Use csv() method of the
DataFrameReader object to create a
DataFrame from CSV file. you can also
provide options like what delimiter to
use, whether you have quoted data,
date formats, infer schema, and many
more. Please refer PySpark Read CSV
into DataFrame

(https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/)

```
df2 = spark.read.csv("/src/reso
```

3.2. Creating from text

(TXT) file

Similarly you can also create a

DataFrame by reading a from Text file,
use text() method of the

DataFrameReader to do so.

```
df2 = spark.read.text("/src/res
```

3.3. Creating from JSON

file

PySpark is also used to process semistructured data files like JSON format. you can use json() method of the DataFrameReader to read JSON file into DataFrame. Below is a simple example.

```
df2 = spark.read.json("/src/res
```

Similarly, we can create DataFrame in PySpark from most of the relational databases which I've not covered here and I will leave this to you to explore.

PySpark – dense_rank() (https://sparkbyexamples.com/py spark/pyspark-windowfunctions/#dense_rank)

<u>PySpark – percent_rank()</u>
(https://sparkbyexamples.com/pyspark/pyspark-window-functions/#percent_rank)</u>

PySpark - typedLit()
(https://sparkbyexamples.com/py
spark/pyspark-lit-add-literalconstant/#typedlit)

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

PySpark – to_json()
(https://sparkbyexamples.com/py
spark/pyspark-json-functionswith-examples/#to_json)

<u>PySpark – json_tuple()</u>
(https://sparkbyexamples.com/py
spark/pyspark-json-functionswith-examples/#json_tuple)

<u>PySpark – get json object()</u>
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#get json object)

PySpark - schema_of_json() (https://sparkbyexamples.com/py spark/pyspark-json-functionswith-

examples/#schema_of_json)

4. Other sources (Avro, Parquet, ORC, Kafka)

We can also create DataFrame by reading Avro, Parquet, ORC, Binary files and accessing Hive and HBase table, and also reading data from Kafka which I've explained in the below articles, I would recommend reading these when you have time.

- PySpark Read Parquet file into
 DataFrame
 (https://sparkbyexamples.com/pyspark/pyspark-read-and-write-parquet-file/)
- DataFrame from Avro source
 (https://sparkbyexamples.com/spark/using-avro-data-files-from-spark-sql-2-4/)
- DataFrame by Streaming data from <u>Kafka</u> (https://sparkbyexamples.com/spark/ spark-streaming-kafka-consumerexample-in-json-format/)

The complete code can be downloaded from GitHub (https://github.com/spark-examples/spark-scala-examples/blob/master/src/main/scala/com/sparkbyexamples/spark/dataframe/CreateDataFrame.scala)

Happy Learning !!

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4 FEB 2021 REPLY

* indicates: its passing list as an argument



Anonymous

24 NOV 2020 REPLY

regular expression for arbitrary column names



sagar

30 JUL 2020 REPLY

What is significance of * in below dfFromData2 = spark.createDataFrame(data).toDF(*col umns)

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