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)

(https://sparkbyexamples.com/ Hive (https://sparkbyexamples.com/apache-hive-

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PySpark - Modules &

Packages

(https://sparkbyexamples.com/

pyspark-tutorial/#modules-

packages)

HBase p(https://sparkbrevamples.com/apache-

file into DataFrame

hbase-tutorial/)

PySpark - Cluster Managers

pyspark-tutorial/#cluster-

manager)

2 NNK

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

□ <u>PySpark</u>

(https://sparkbyexamples.com/category/pyspark/)

PySpark - Install on Windowskafka-tutorials-with-examples/)

FAQ's

(https://sparkbyexamples.com/

pyspark-tutorial/#pyspark-

installation)

PySpark provides csv("path") on

DataFrameReader to read a CSV file (https://sparkbyexamples.com/spark-into PySpark DataFrame and

PySpark - Web/Application UI

(https://sparkbyexamples.com/ questio

spark/spark-web-ui-

understanding/)

dataframeObj.write.csv("path")

to save or write to the CSV file. In this tutorial, you will learn how to read a

single file, multiple files, all files from a

local directory into DataFrame, applying

some transformations, and finally writing DataFrame back to CSV file

using PySpark example.

PySpark - SparkSession (https://sparkbyexamples.com/ More 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-repartition-

vs-coalesce/)

PySpark - Broadcast

Variables

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

variables/)

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PySpark supports reading a CSV file with a pipe, comma, tab, space, or any other delimiter/separator files.

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

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

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

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

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

<u>PySpark – withColumn()</u> (https://sparkbyexamples.com/ pyspark/pyspark-withcolumn/)</u> **Note:** PySpark out of the box supports reading files in CSV, JSON, and many more file formats into PySpark DataFrame.

Table of contents:

- PySpark Read CSV file into DataFrame
 - · Read multiple CSV files
 - · Read all CSV files in a directory
- Options while reading CSV file
 - o delimiter
 - InferSchema
 - header
 - quotes
 - nullValues
 - dateFormat
- Read CSV files with a user-specified schema
- Applying DataFrame transformations
- · Write DataFrame to CSV file
 - Using options
 - Saving Mode

1. PySpark Read CSV

File into DataFrame

Using csv("path") or format("csv").load("path") of DataFrameReader, you can read a CSV file into a PySpark DataFrame, These methods take a file path to read from as an argument. When you use format("csv") method, you can also specify the Data sources by their fully qualified name, but for built-in sources, you can simply use their short names (csv,json, parquet, jdbc, text e.t.c).

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

<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) (https://sparkbyexamples.com/pyspark/pyspark-udf-user-defined-function/)

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

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

<u>pyspark – foreach()</u>
(<u>https://sparkbyexamples.com/pyspark/pyspark-loop-iterate-through-rows-in-dataframe/#use-foreach-loop-through-dataframe)</u>

<u>PySpark – sample() vs</u> <u>sampleBy()</u> Refer dataset zipcodes.csv at GitHub (https://github.com/spark-examples/pyspark-examples/blob/master/resources/zipcodes.csv)

Using fully qualified data source name, you can alternatively do the following.

This example reads the data into DataFrame columns "_c0" for the first column and "_c1" for the second and so on. and by default data type for all these columns is treated as String.

```
root
|-- _c0: string (nullable = true)
|-- _c1: string (nullable = true)
|-- _c2: string (nullable = true)
```

1.1 Using Header Record

For Column Names

If you have a header with column names on your input file, you need to explicitly specify True for header option using option("header", True) not mentioning this, the API treats header as a data record.

(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/)

PySpark — MapType (Map/Dict) (https://sparkbyexamples.com/ pyspark/pyspark-maptype-dictexamples/).

PySpark SQL Functions

<u>PySpark – Aggregate Functions</u> (<u>https://sparkbyexamples.com/pyspark/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/ As mentioned earlier, PySpark reads all columns as a string (StringType) by default. I will explain in later sections on how to read the schema (inferschema) from the header record and derive the column type based on the data.

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1.2 Read Multiple CSV Files

Using the read.csv() method you can also read multiple csv files, just pass all file names by separating comma as a path, for example:

```
df = spark.read.csv("path1,path.
```

1.3 Read all CSV Files in a Directory

We can read all CSV files from a directory into DataFrame just by passing directory as a path to the csv() method.

```
df = spark.read.csv("Folder pat)
```

2. Options While Reading

CSV File

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

<u>PySpark – Read & Write JSON</u> file

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

PySpark Built-In Functions

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

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

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

<u>PySpark – split()</u>
(https://sparkbyexamples.com/py
spark/pyspark-convert-string-toarray-column/)</u>

<u>PySpark – concat_ws()</u> (https://sparkbyexamples.com/py <u>spark/pyspark-convert-array-column-to-string-column/)</u>

<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)

<u>PySpark - to_timestamp()</u> (https://sparkbyexamples.com/spark/pyspark-to_timestampPySpark CSV dataset provides multiple options to work with CSV files. Below are some of the most important options explained with examples.

You can either use chaining option(self, key, value) to use multiple options or use alternate options(self, **options) method.

2.1 delimiter

delimiter option is used to specify the column delimiter of the CSV file. By default, it is **comma (,)** character, but can be set to any character like **pipe(|)**, **tab (\t)**, **space** using this option.

```
df3 = spark.read.options(delimit
    .csv("C:/apps/sparkbyexamples
```

2.2 inferSchema

The default value set to this option is False when setting to true it automatically infers column types based on the data. Note that, it requires reading the data one more time to infer the schema.

```
df4 = spark.read.options(inferS
    .csv("src/main/resources/zipc
```

Alternatively you can also write this by chaining option() method.

```
df4 = spark.read.option("inferSources/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/counces/cou
```

2.3 header

This option is used to read the first line of the CSV file as column names. By default the value of this option

<u>convert-string-to-timestamp-type/)</u>

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

PySpark – date_format() (https://sparkbyexamples.com/pyspark/pyspark-date_format-convert-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())

<u>PySpark - explode()</u>
(https://sparkbyexamples.com/py
spark/pyspark-explode-nestedarray-into-rows/)

<u>PySpark – array_contains()</u> (https://sparkbyexamples.com/pyspark/pyspark-arraytype-columnwith-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)

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

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

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

PySpark - map_values() (https://sparkbyexamples.com/py spark/pyspark-maptype-dictexamples/#map_values) is False, and all column types are assumed to be a string.

```
df3 = spark.read.options(header
    .csv("/tmp/resources/zipcodes
```

2.4 quotes

When you have a column with a delimiter that used to split the columns, use quotes option to specify the quote character, by default it is " and delimiters inside quotes are ignored. but using this option you can set any character.

2.5 nullValues

Using nullValues option you can specify the string in a CSV to consider as null. For example, if you want to consider a date column with a value "1900-01-01" set null on DataFrame.

2.6 dateFormat

dateFormat option to used to set the format of the input <u>DateType</u> (https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/#pyspark-sql-date-functions) and <u>TimestampType</u> (https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/#pyspark-sql-timestamp-functions) columns. Supports all java.text.SimpleDateFormat formats.

Note: Besides the above options, PySpark CSV API also supports many other options, please refer to this article for details (https://docs.databricks.com/data/datasources/read-csv.html). New Markets mean new tax challenges Automate cross-border

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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)

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

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

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)

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

3. Reading CSV files with

a user-specified custom

schema

If you know the schema of the file ahead and do not want to use the inferSchema option for column names and types, use <u>user-defined custom</u> column names and type (https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/) using schema option.

```
schema = StructType() \
      .add("RecordNumber", Integ
      .add("Zipcode",IntegerTyp
      .add("ZipCodeType", String
      .add("City",StringType(),
      .add("State",StringType()
      .add("LocationType",Strin
      .add("Lat",DoubleType(),T
      .add("Long",DoubleType(),
      .add("Xaxis",IntegerType(
      .add("Yaxis",DoubleType()
      .add("Zaxis",DoubleType()
      .add("WorldRegion", String
      .add("Country",StringType
      .add("LocationText",String
      .add("Location",StringTyp
      .add("Decommisioned", Bool
      .add("TaxReturnsFiled",St
      .add("EstimatedPopulation
      .add("TotalWages", Integer
      .add("Notes",StringType()
df_with_schema = spark.read.for
      .option("header", True) \
      .schema(schema) \
      .load("/tmp/resources/zip
```

4. Applying DataFrame transformations

Once you have created DataFrame from the CSV file, you can apply all transformation and actions DataFrame support. Please refer to the link for more details.



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5. Write PySpark

DataFrame to CSV file

Use the write() method of the PySpark DataFrameWriter object to write PySpark DataFrame to a CSV file.

```
df.write.option("header",True)
  .csv("/tmp/spark_output/zipcode
```

5.1 Options

While writing a CSV file you can use several options. for example, header to output the DataFrame column names as header record and delimiter to specify the delimiter on the CSV output file.

```
df2.write.options(header='True'
   .csv("/tmp/spark_output/zipcode
```

Other options available quote, escape, nullValue, d ateFormat, quoteMode.

5.2 Saving modes

PySpark DataFrameWriter also has a method mode() to specify saving mode.

overwrite — mode is used to overwrite the existing file.

append – To add the data to the existing file.

ignore – Ignores write operation when the file already exists.

error – This is a default option when the file already exists, it returns an error. df2.write.mode('overwrite').csv
//you can also use this
df2.write.format("csv").mode('overwrite').mode('overwrite').mode('overwrite').mode('overwrite').mode('overwrite').mode('overwrite').csv

6. PySpark Read CSVComplete Example

```
import pyspark
from pyspark.sql import SparkSe
from pyspark.sql.types import S
from pyspark.sql.types import A
from pyspark.sql.functions impo
spark = SparkSession.builder.ap
df = spark.read.csv("/tmp/resou
df.printSchema()
df2 = spark.read.option("header
     .csv("/tmp/resources/zipco
df2.printSchema()
df3 = spark.read.options(header
  .csv("/tmp/resources/zipcodes
df3.printSchema()
schema = StructType() \
      .add("RecordNumber", Integ
      .add("Zipcode",IntegerTyp
      .add("ZipCodeType",String
      .add("City",StringType(),
      .add("State",StringType()
      .add("LocationType",Strin
      .add("Lat",DoubleType(),T
      .add("Long",DoubleType(),
      .add("Xaxis",IntegerType(
      .add("Yaxis",DoubleType()
      .add("Zaxis",DoubleType()
      .add("WorldRegion",String
      .add("Country",StringType
      .add("LocationText",Strin
      .add("Location",StringTyp
      .add("Decommisioned", Bool
      .add("TaxReturnsFiled",St
      .add("EstimatedPopulation
      .add("TotalWages",Integer
      .add("Notes",StringType()
df_with_schema = spark.read.for
      .option("header", True) \
      .schema(schema) \
      .load(/tmp/resources/zipc
df_with_schema.printSchema()
df2.write.option("header", True)
 .csv("/tmp/spark_output/zipcod
```

7. Conclusion:

In this tutorial, you have learned how to read a CSV file, multiple CSV files and all files from a local folder into PySpark DataFrame, using multiple options to change the default behavior and write CSV files back to DataFrame using different save options.

Happy Learning !!

References:

- <u>Databricks read CSV</u>
 (https://docs.databricks.com/data/dat a-sources/read-csv.html)
- PySpark CSV library (https://github.com/databricks/spark-csv)

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in

(https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/?share=linkedin&nb=1)



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TAGS: CSV

(HTTPS://SPARKBYEXAMPLES.COM/TAG/CSV/),
HEADER
(HTTPS://SPARKBYEXAMPLES.COM/TAG/HEADER/)

, PYSPARK WRITE CSV

(HTTPS://SPARKBYEXAMPLES.COM/TAG/PYSPARK -WRITE-CSV/), SCHEMA

(HTTPS://SPARKBYEXAMPLES.COM/TAG/SCHEMA/).



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Anonymous

18 APR 2021 REPLY

where is zipcode CSV file ?



NNK

18 APR 2021 REPLY

You can find it at zipcodes.csv @.

GitHub (https://github.com/sparkexamples/pysparkexamples/blob/master/resources/zip
codes.csv)



Anonymous

11 FEB 2021 REPLY

Really very helpful pyspark example..Thanks for the details!!



Anonymous

5 JAN 2021 <u>REPLY</u>

Very much helpful!! Thank you for the article!!



NNK 5 JAN 2021 REPLY

Thank you!!





Anonymous

2 NOV 2020 REPLY

Thank you so much for this article ①



NNK 2 NOV 2020 REPLY

Glad you like it.



Anonymous

19 SEP 2020 REPLY

Thanks for the example. could you please explain how to define/initialise the "spark" in the above example (e.g. spark.read.csv)?

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