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PySpark Tutorial

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(https://sparkbyexamples.com/pyspark/pyspark-repartition-vs-coalesce/)

[PySpark – Broadcast Variables](#)

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PySpark Row using on DataFrame and RDD

In PySpark Row class is available by importing pyspark.sql.Row which is represented as a record/row in DataFrame, one can create a Row object by using named arguments, or create a custom Row like class. In this article I will explain how to use Row class on RDD, DataFrame and its functions.



Before we start using it on RDD & DataFrame, let's understand some basics of Row class.

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PySpark DataFrame

[PySpark – Create a DataFrame
\(https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/\)](https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/)

[PySpark – Create an empty DataFrame
\(https://sparkbyexamples.com/pyspark/pyspark-create-an-empty-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-create-an-empty-dataframe/)

[PySpark – Convert RDD to DataFrame
\(https://sparkbyexamples.com/pyspark/convert-pyspark-rdd-to-dataframe/\)](https://sparkbyexamples.com/pyspark/convert-pyspark-rdd-to-dataframe/)

[PySpark – Convert DataFrame to Pandas
\(https://sparkbyexamples.com/pyspark/convert-pyspark-dataframe-to-pandas/\)](https://sparkbyexamples.com/pyspark/convert-pyspark-dataframe-to-pandas/)

[PySpark – show\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-show-display-dataframe-contents-in-table/\)](https://sparkbyexamples.com/pyspark/pyspark-show-display-dataframe-contents-in-table/)

[PySpark – StructType & StructField
\(https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/\)](https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/)

[PySpark – Row Class
\(https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/)

[PySpark – Column Class
\(https://sparkbyexamples.com/pyspark/pyspark-column-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-column-functions/)

[PySpark – select\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-select-columns-from-pyspark-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-select-columns-from-pyspark-dataframe/)

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

[PySpark – withColumn\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-withcolumn/\)](https://sparkbyexamples.com/pyspark/pyspark-withcolumn/)

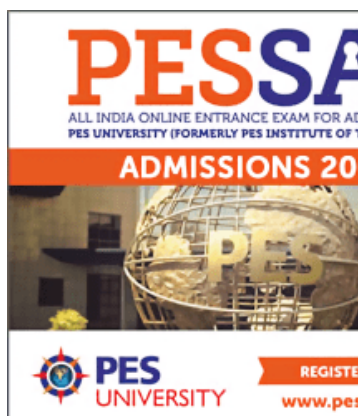
Related Article: [PySpark Column Class Usage & Functions with Examples
\(https://sparkbyexamples.com/pyspark/pyspark-column-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-column-functions/)

Key Points of Row Class:

- Earlier to Spark 3.0, when used Row class with named arguments, the fields are sorted by name.
- Since 3.0, Rows created from named arguments are not sorted alphabetically instead they will be ordered in the position entered.
- To enable sorting by names, set the environment variable `PYSPARK_ROW_FIELD_SORTING_ENABLED` to `true`.
- Row class provides a way to create a struct-type column as well.

1. Create a Row Object

Row class extends the tuple hence it takes variable number of arguments, `Row()` is used to create the row object. Once the row object created, we can retrieve the data from Row using index similar to tuple.



```
from pyspark.sql import Row
row=Row("James",40)
print(row[0] + "," +str(row[1]))
```

This outputs `James,40`. Alternatively you can also write with named arguments. Benefits with the named argument is you can access with field name `row.name`. Below example print "Alice".

[PySpark – withColumnRenamed\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-rename-dataframe-column/>).

[PySpark – where\(\) & filter\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-where-filter/>).

[PySpark – drop\(\) & dropDuplicates\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-distinct-to-drop-duplicates/>).

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

[PySpark – groupBy\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-groupby-explained-with-example/>).

[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\(\).](#)

```
row=Row(name="Alice", age=11)
print(row.name)
```

2. Create Custom Class from Row

We can also create a Row like class, for example “Person” and use it similar to Row object. This would be helpful when you wanted to create real time object and refer it’s properties. On below example, we have created a Person class and used similar to Row.

```
Person = Row("name", "age")
p1=Person("James", 40)
p2=Person("Alice", 35)
print(p1.name + "," +p2.name)
```

This outputs James,Alice

3. Using Row class on PySpark RDD

We can use Row class on PySpark RDD. When you use Row to create an RDD, after collecting the data you will get the result back in Row.

```
from pyspark.sql import SparkSession
spark = SparkSession.builder.appName('Row').getOrCreate()

data = [Row(name="James,,Smith", last_name="Smith", age=30),
        Row(name="Michael,Rose,", last_name="Rose", age=40),
        Row(name="Robert,,Williams", last_name="Williams", age=40)]

rdd=spark.sparkContext.parallelize(data)
print(rdd.collect())
```

This yields below output.

[\(https://sparkbyexamples.com/pyspark/pyspark-sampling-example/\)](https://sparkbyexamples.com/pyspark/pyspark-sampling-example/).

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

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

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

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

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

PySpark SQL Functions

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

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

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

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 \(https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file/\)](https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file/).

```
[Row(name='James,,Smith', lang=
```

Now, let's collect the data and access the data using its properties.

```
collData=rdd.collect()
for row in collData:
    print(row.name + "," +str(r
```

This yields below output.

```
James,,Smith,['Java', 'Scala',
Michael,Rose,,['Spark', 'Java',
Robert,,Williams,['CSharp', 'VB
```

Alternatively, you can also do by creating a Row like class "Person"

```
Person=Row("name","lang","state
data = [Person("James,,Smith",[
    Person("Michael,Rose,",["Sp
    Person("Robert,,Williams",[
```

4. Using Row class on PySpark DataFrame

Similarly, Row class also can be used with PySpark DataFrame, By default data in DataFrame represent as Row. To demonstrate, I will use the same data that was created for RDD.

[pyspark/pyspark-read-and-write-parquet-file/](#)

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

Note that Row on DataFrame is not allowed to omit a named argument to represent that the value is None or missing. This should be explicitly set to None in this case.

```
df=spark.createDataFrame(data)
df.printSchema()
df.show()
```

df yields below output. Note that DataFrame is able to take the column names from Row object.

```
root
-- name: string (nullable = true)
-- lang: array (nullable = true)
|   |-- element: string (contains null)
-- state: string (nullable = true)
```

```
-----+-----
      name |
-----+-----
      James,,Smith|[Java, Scala,
      Michael,Rose,|[Spark, Java,
      Robert,,Williams|      [CSharp
```

df can also change the column names using toDF() function

```
columns = ["name","languagesAtSchool"]
df=spark.createDataFrame(data,columns)
df.printSchema()
```

This yields below output, note the column name “languagesAtSchool” from the previous example.

```
root
|-- name: string (nullable = true)
|-- languagesAtSchool: array (contains null)
|   |-- element: string (contains null)
|-- currentState: string (nullable = true)
```

PySpark Built-In Functions

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

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

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

[PySpark – split\(\)](#)
(<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-values/#regexp_replace-replace-string-columns)
(https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#regexp_replace-replace-string-columns).

[PySpark – overlay\(\)](https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#overlay-function)
(<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/)
(https://sparkbyexamples.com/spark/pyspark-to_timestamp-convert-string-to-timestamp-type/).

[PySpark – to_date\(\)](https://sparkbyexamples.com/pyspark/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/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).

5. Create Nested Struct Using Row Class

The below example provides a way to create a struct type using the Row class. Alternatively, you can also create struct type using By [Providing Schema using PySpark StructType & StructFields](#) (<https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/>)

```
#Create DataFrame with struct using Row class
from pyspark.sql import Row
data=[Row(name="James",prop=Row(hair="black",eye="blue")),
      Row(name="Ann",prop=Row(hair="brown",eye="green"))]
df=spark.createDataFrame(data)
df.printSchema()
```

Yields below schema

```
root
 |-- name: string (nullable = true)
 |-- prop: struct (nullable = true)
       |-- hair: string (nullable = true)
       |-- eye: string (nullable = true)
```

6. Complete Example of PySpark Row usage on RDD & DataFrame

Below is complete example for reference.

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

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

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

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

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

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

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

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

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

```
from pyspark.sql import SparkSession

row=Row("James",40)
print(row[0] + "," +str(row[1]))
row2=Row(name="Alice", age=11)
print(row2.name)
```

```
Person = Row("name", "age")
p1=Person("James", 40)
p2=Person("Alice", 35)
print(p1.name + "," +p2.name)
```

#PySpark Example

```
spark = SparkSession.builder.appName("PySpark Example").getOrCreate()
```

```
data = [Row(name="James,,Smith",lang="English",state="California"),
        Row(name="Michael,Rose,",lang="Spanish",state="California"),
        Row(name="Robert,,Williams",lang="English",state="California")]
```

#RDD Example 1

```
rdd=spark.sparkContext.parallelize(data)
collData=rdd.collect()
print(collData)
for row in collData:
    print(row.name + "," +str(row.lang))
```

RDD Example 2

```
Person=Row("name","lang","state")
data = [Person("James,,Smith",["English","Spanish"],"California"),
        Person("Michael,Rose,",["Spanish","English"],"California"),
        Person("Robert,,Williams",["English","Spanish"],"California")]
rdd=spark.sparkContext.parallelize(data)
collData=rdd.collect()
print(collData)
for person in collData:
    print(person.name + "," +str(person.lang))
```

#DataFrame Example 1

```
columns = ["name","languagesAtSchool","state"]
df=spark.createDataFrame(data,columns)
df.printSchema()
df.show()
```

```
collData=df.collect()
print(collData)
for row in collData:
    print(row.name + "," +str(row.lang))
```

#DataFrame Example 2

```
columns = ["name","languagesAtSchool","state"]
df=spark.createDataFrame(data,columns)
df.printSchema()
```

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

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

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

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

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

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

Conclusion

In this PySpark Row article you have learned how to use Row class with named argument and defining realtime class and using it on DataFrame & RDD. Hope you like this

Reference

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

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(<https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/?share=linkedin&nb=1>)



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