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
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Spark foreachPartition vs foreach | what to use?

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In Spark foreachPartition() is used when you have a heavy initialization (like database connection) and wanted to initialize once per partition where as foreach() is used to apply a function on every element of a RDD/DataFrame/Dataset partition.

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In this Spark Dataframe article, you will learn what is foreachPartiton used for and the differences with its sibling

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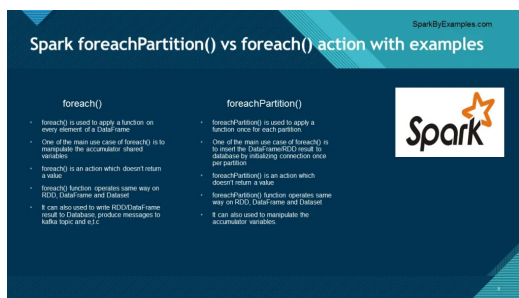
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foreach (foreachPartition vs foreach) function.

Spark foreachPartition is an action operation and is available in RDD, DataFrame, and Dataset. This is different than other actions as foreachPartition() function doesn't return a value instead it executes input function on each partition.

- [DataFrame foreachPartition\(\) Usage](#)
- [DataFrame foreach\(\) Usage](#)
- [RDD foreachPartition\(\) Usage](#)
- [RDD foreach\(\) Usage](#)



The image is a slide titled "Spark foreachPartition() vs foreach() action with examples" from SparkByExamples.com. It compares the two functions in a table-like format. The 'foreach()' column states it is used to apply a function on every element of a DataFrame, is one of the main use cases for manipulating accumulators, is an action that doesn't return a value, and operates on RDD, DataFrame, and Dataset. The 'foreachPartition()' column states it is used to apply a function once for each partition, is one of the main use cases for initializing connections once per partition, is an action that doesn't return a value, operates on the same way as foreach(), and can be used to manipulate accumulator variables. The Spark logo is visible on the right.

DataFrame

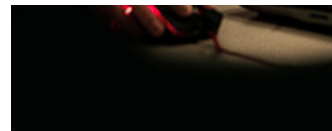
foreachPartition() Usage

On Spark DataFrame foreachPartition() is similar to foreach() action which is used to manipulate the accumulators, write to a database table or external data sources but the difference being foreachPartition() gives you an option to do heavy initializations per each partition and is considered most efficient.

Syntax

```
foreachPartition(f : scala.Func
```

When foreachPartition() applied on Spark DataFrame, it executes a function specified in foreach() for each partition on DataFrame. This operation is mainly used if you wanted to save the DataFrame result to RDBMS tables, or produce it to kafka topics e.t.c



[apache-spark-rdd/convert-spark-rdd-to-dataframe-dataset/](#)

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(<https://sparkbyexamples.com/apache-spark-rdd/spark-rdd-transformations/#rdd-filter>).

[Spark RDD – map\(\)](#)
(<https://sparkbyexamples.com/spark/spark-map-transformation/>).

[Spark RDD – flatMap\(\)](#)
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[Spark RDD – fold\(\)](#)
(<https://sparkbyexamples.com/apache-spark-rdd/spark-rdd-fold-function-example/>).

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[Spark RDD – reduce\(\)](#)
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[Spark RDD – reduceByKey\(\)](#)
(<https://sparkbyexamples.com/apache-spark-rdd/spark-reducebykey-usage-with-examples/>).

[Spark RDD – sortByKey\(\)](#)
(<https://sparkbyexamples.com/apache-spark-rdd/spark-sortbykey-with-rdd-example/>).

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

[Spark SQL – Add and Update Column \(withColumn\)](#)
(<https://sparkbyexamples.com/>



Example

In this example, to make it simple we just print the DataFrame to console.

```
// foreachPartition DataFrame
val df = spark.createDataFrame(...)
df.foreachPartition(partition => {
    //Initialize database connection
    partition.foreach(fun=>{
        //apply the function to it
        // or produce kafka topic
    })
    //If you have batch inserts
})
```

DataFrame foreach()

Usage

When `foreach()` applied on Spark DataFrame, it executes a function specified in for each element of DataFrame/Dataset. This operation is mainly used if you wanted to [manipulate accumulators](#) (<https://sparkbyexamples.com/spark/spark-accumulators/>), and any other operations which doesn't have heavy initializations.

```
val longAcc = spark.sparkContext.accumulatorOf(0L)
df.foreach(f=> {
    longAcc.add(f.getInt(1))
})
println("Accumulator value:" + longAcc.value)
```

[spark/spark-dataframe-withcolumn/](#)

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

[Spark SQL – Drop column](#)
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[Spark SQL – Where | Filter](#)
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[Spark SQL – Sort DataFrame](#)
(<https://sparkbyexamples.com/spark/spark-how-to-sort-dataframe-column-explained/>)

RDD foreachPartition()

Usage

foreach() on RDD behaves similarly to DataFrame equivalent hence, it has the same syntax.

Syntax

```
foreachPartition(f : scala.Function2, numPartitions : Int)
```

Example

```
// foreachPartition DataFrame
val rdd = spark.sparkContext.parallelize(1 to 100)
rdd.foreachPartition(partitionOfValues => {
    //Initialize any database connection
    partition.foreach(fun=>{
        //apply the function
    })
})
```

Spark RDD foreach()

Usage

rdd foreach() is equivalent to DataFrame foreach() action.

```
//rdd accumulator
val rdd2 = spark.sparkContext.parallelize(1 to 100)
val longAcc2 = spark.sparkContext.accumulator(0)
rdd2.foreach(f=> {
    longAcc2.add(f)
})
println("Accumulator value:" + longAcc2.value)
```

Conclusion

You should use foreachPartition action operation when using heavy initialization like database connections or Kafka producer etc where it initializes one per partition rather than

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(<https://sparkbyexamples.com/spark/spark-sql-dataframe-join/>).

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

[Spark SQL – map\(\) vs mapPartitions\(\)](https://sparkbyexamples.com/spark/spark-map-vs-mappartitions-transformation/)
(<https://sparkbyexamples.com/spark/spark-map-vs-mappartitions-transformation/>).

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

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

[Spark SQL – UDF \(User Defined Functions\)](https://sparkbyexamples.com/spark/spark-sql-udf/)
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(<https://sparkbyexamples.com/spark/spark-array-arraytype-dataframe-column/>).

[Spark SQL – Map \(MapType\) column](https://sparkbyexamples.com/spark/spark-dataframe-map-maptype-column/)
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(<https://sparkbyexamples.com/spark/spark-flatten-nested-struct-column/>).

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

one per element(foreach). foreach() transformation mostly used to update accumulator variables.


Reference:


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

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[Spark Streaming – Reading Files From Directory](#)



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