

# Spark by {Examples} (https://sparkbyexamples.com/)

## Spark Tutorial

[Spark – Installation on Windows \(https://sparkbyexamples.com/spark/apache-spark-installation-on-windows/\)](https://sparkbyexamples.com/spark/apache-spark-installation-on-windows/)

[Spark – Installation on Linux | Ubuntu \(https://sparkbyexamples.com/spark/spark-installation-on-linux-ubuntu/\)](https://sparkbyexamples.com/spark/spark-installation-on-linux-ubuntu/)

[Spark – Cluster Setup with Hadoop Yarn \(https://sparkbyexamples.com/spark/spark-setup-on-hadoop-yarn/\)](https://sparkbyexamples.com/spark/spark-setup-on-hadoop-yarn/)

[Spark – Web/Application UI \(https://sparkbyexamples.com/spark/spark-web-ui-understanding/\)](https://sparkbyexamples.com/spark/spark-web-ui-understanding/)

[Spark – Setup with Scala and IntelliJ \(https://sparkbyexamples.com/spark/spark-setup-run-with-scala-intellij/\)](https://sparkbyexamples.com/spark/spark-setup-run-with-scala-intellij/)

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[Spark – SparkSession \(https://sparkbyexamples.com/spark/sparksession-explained-with-examples/\)](https://sparkbyexamples.com/spark/sparksession-explained-with-examples/)

[Spark – SparkContext \(https://sparkbyexamples.com/spark/spark-sparkcontext/\)](https://sparkbyexamples.com/spark/spark-sparkcontext/)

## Spark RDD Tutorial

[Spark RDD – Parallelize \(https://sparkbyexamples.com/apache-spark-rdd/how-to-create-an-rdd-using-parallelize/\)](https://sparkbyexamples.com/apache-spark-rdd/how-to-create-an-rdd-using-parallelize/)

[Spark RDD – Read text file \(https://sparkbyexamples.com/apache-spark-rdd/spark-read-multiple-text-files-into-a-single-rdd/\)](https://sparkbyexamples.com/apache-spark-rdd/spark-read-multiple-text-files-into-a-single-rdd/)

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Apache Spark



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In this Spark article, you will learn how to union two or more data frames of the same schema which is used to append DataFrame to another or combine two DataFrames and also explain the differences between union and union all with Scala examples.

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Dataframe union() – union() method of the DataFrame is used to combine two DataFrame's of the same structure/schema. If schemas are not the same it returns an error.

[Spark RDD – Read CSV](https://sparkbyexamples.com/apache-spark-rdd/spark-load-csv-file-into-rdd/)  
(<https://sparkbyexamples.com/apache-spark-rdd/spark-load-csv-file-into-rdd/>).

[Spark RDD – Create RDD](https://sparkbyexamples.com/apache-spark-rdd/different-ways-to-create-spark-rdd/)  
(<https://sparkbyexamples.com/apache-spark-rdd/different-ways-to-create-spark-rdd/>).

[Spark RDD – Create Empty RDD](https://sparkbyexamples.com/apache-spark-rdd/spark-how-to-create-an-empty-rdd/)  
(<https://sparkbyexamples.com/apache-spark-rdd/spark-how-to-create-an-empty-rdd/>).

[Spark RDD – Transformations](https://sparkbyexamples.com/apache-spark-rdd/spark-rdd-transformations/)  
(<https://sparkbyexamples.com/apache-spark-rdd/spark-rdd-transformations/>).

[Spark RDD – Actions](https://sparkbyexamples.com/apache-spark-rdd/spark-rdd-actions/)  
(<https://sparkbyexamples.com/apache-spark-rdd/spark-rdd-actions/>).

[Spark RDD – Pair Functions](https://sparkbyexamples.com/apache-spark-rdd/spark-pair-rdd-functions/)  
(<https://sparkbyexamples.com/apache-spark-rdd/spark-pair-rdd-functions/>).

[Spark RDD – Repartition and Coalesce](https://sparkbyexamples.com/spark/spark-repartition-vs-coalesce/)  
(<https://sparkbyexamples.com/spark/spark-repartition-vs-coalesce/>).

[Spark RDD – Shuffle Partitions](https://sparkbyexamples.com/spark/spark-shuffle-partitions/)  
(<https://sparkbyexamples.com/spark/spark-shuffle-partitions/>).

[Spark RDD – Cache vs Persist](https://sparkbyexamples.com/spark/spark-difference-between-cache-and-persist/)  
(<https://sparkbyexamples.com/spark/spark-difference-between-cache-and-persist/>).

[Spark RDD – Persistence Storage Levels](https://sparkbyexamples.com/spark/spark-persistence-storage-levels/)  
(<https://sparkbyexamples.com/spark/spark-persistence-storage-levels/>).

[Spark RDD – Broadcast Variables](https://sparkbyexamples.com/spark/spark-broadcast-variables/)  
(<https://sparkbyexamples.com/spark/spark-broadcast-variables/>).

[Spark RDD – Accumulator Variables](https://sparkbyexamples.com/spark/spark-accumulators/)  
(<https://sparkbyexamples.com/spark/spark-accumulators/>).

[Spark RDD – Convert RDD to DataFrame](https://sparkbyexamples.com/)  
(<https://sparkbyexamples.com/>).

DataFrame unionAll() – unionAll() is deprecated since Spark “2.0.0” version and replaced with union().

**Note:** In other SQL's, Union eliminates the duplicates but UnionAll combines two datasets including duplicate records. But, in spark both behave the same and use [DataFrame duplicate function to remove duplicate rows](https://sparkbyexamples.com/spark/spark-remove-duplicate-rows/) (<https://sparkbyexamples.com/spark/spark-remove-duplicate-rows/>).

First, let's create two DataFrame with the same schema.



```
import spark.implicits._

val simpleData = Seq(("James"
    ("Michael", "Sales", "NY", 8600
    ("Robert", "Sales", "CA", 8100
    ("Maria", "Finance", "CA", 9000
    )
val df = simpleData.toDF("emp
df.printSchema()
df.show()
```

This yields the below schema and DataFrame output.

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

## Spark SQL Tutorial

### [Spark SQL – Create DataFrame](#)

[\(https://sparkbyexamples.com/spark/different-ways-to-create-a-spark-dataframe/\)](https://sparkbyexamples.com/spark/different-ways-to-create-a-spark-dataframe/)

### [Spark SQL – Select Columns](#)

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

### [Spark SQL – Add and Update Column \(withColumn\)](#)

[\(https://sparkbyexamples.com/spark/spark-dataframe-withcolumn/\)](https://sparkbyexamples.com/spark/spark-dataframe-withcolumn/)

### [Spark SQL – Rename Nested Column](#)

[\(https://sparkbyexamples.com/spark/rename-a-column-on-spark-dataframes/\)](https://sparkbyexamples.com/spark/rename-a-column-on-spark-dataframes/)

### [Spark SQL – Drop column](#)

[\(https://sparkbyexamples.com/spark/spark-drop-column-from-dataframe-dataset/\)](https://sparkbyexamples.com/spark/spark-drop-column-from-dataframe-dataset/)

### [Spark SQL – Where | Filter](#)

[\(https://sparkbyexamples.com/spark/spark-dataframe-where-filter/\)](https://sparkbyexamples.com/spark/spark-dataframe-where-filter/)

### [Spark SQL – When Otherwise](#)

[\(https://sparkbyexamples.com/spark/spark-case-when-otherwise-example/\)](https://sparkbyexamples.com/spark/spark-case-when-otherwise-example/)

### [Spark SQL – Collect data to Driver](#)

[\(https://sparkbyexamples.com/spark/spark-dataframe-collect/\)](https://sparkbyexamples.com/spark/spark-dataframe-collect/)

### [Spark SQL – Distinct](#)

[\(https://sparkbyexamples.com/spark/spark-remove-duplicate-rows/\)](https://sparkbyexamples.com/spark/spark-remove-duplicate-rows/)

### [Spark SQL- Pivot Table DataFrame](#)

[\(https://sparkbyexamples.com/spark/how-to-pivot-table-and-unpivot-a-spark-dataframe/\)](https://sparkbyexamples.com/spark/how-to-pivot-table-and-unpivot-a-spark-dataframe/)

### [Spark SQL – Data Types](#)

[\(https://sparkbyexamples.com/spark/spark-sql-dataframe-data-types/\)](https://sparkbyexamples.com/spark/spark-sql-dataframe-data-types/)

```
root
|-- employee_name: string (nullable = true)
|-- department: string (nullable = true)
|-- state: string (nullable = true)
|-- salary: integer (nullable = true)
|-- age: integer (nullable = false)
|-- bonus: integer (nullable = true)
```

```
+-----+-----+-----+
|employee_name|department|state|
+-----+-----+-----+
|      James  |    Sales |  NY |
|   Michael   |    Sales |  NY |
|    Robert   |    Sales |  CA |
|     Maria   |  Finance |  CA |
+-----+-----+-----+
```

Now, let's create a second DataFrame with the new records and some records from the above DataFrame but with the same schema.

```
val simpleData2 = Seq(("James", "Sales", "NY", 9000),
  ("Maria", "Finance", "CA", 9000),
  ("Jen", "Finance", "NY", 79000),
  ("Jeff", "Marketing", "CA", 8000),
  ("Kumar", "Marketing", "NY", 9000)
)
val df2 = simpleData2.toDF("employee_name", "department", "state", "salary")
```

This yields below output

```
+-----+-----+-----+
|employee_name|department|state|
+-----+-----+-----+
|James        |    Sales |  NY |
|Maria        |  Finance |  CA |
|Jen          |  Finance |  NY |
|Jeff         | Marketing |  CA |
|Kumar        | Marketing |  NY |
+-----+-----+-----+
```

## Combine two or more DataFrames using union

[Spark SQL – StructType | StructField](https://sparkbyexamples.com/spark/spark-sql-structtype-on-dataframe/)  
(<https://sparkbyexamples.com/spark/spark-sql-structtype-on-dataframe/>).

[Spark SQL – Schema](https://sparkbyexamples.com/spark/spark-schema-explained-with-examples/)  
(<https://sparkbyexamples.com/spark/spark-schema-explained-with-examples/>).

[Spark SQL – Groupby](https://sparkbyexamples.com/spark/using-groupby-on-dataframe/)  
(<https://sparkbyexamples.com/spark/using-groupby-on-dataframe/>).

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

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

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

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

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

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

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

DataFrame union() method combines two DataFrames and returns the new DataFrame with all rows from two Dataframes regardless of duplicate data.

```
val df3 = df.union(df2)
df3.show(false)
```

As you see below it returns all records.

employee_name	department	state
James	Sales	NY
Michael	Sales	NY
Robert	Sales	CA
Maria	Finance	CA
James	Sales	NY
Maria	Finance	CA
Jen	Finance	NY
Jeff	Marketing	CA
Kumar	Marketing	NY

## Combine DataFrames using unionAll

DataFrame unionAll() method is deprecated since Spark “2.0.0” version and recommends using the union() method.

```
val df4 = df.unionAll(df2)
df4.show(false)
```

Returns the same output as above.

## Complete Example of DataFrame Union

[spark/spark-sql-aggregate-functions/](#)

[Spark SQL Window Functions \(https://sparkbyexamples.com/spark/spark-sql-window-functions/\)](#)

[Spark SQL JSON Functions \(https://sparkbyexamples.com/spark/spark-most-used-json-functions-with-examples/\)](#)

## Spark Data Source API

[Spark – Read & Write CSV file \(https://sparkbyexamples.com/spark/spark-read-csv-file-into-dataframe/\)](#)

[Spark – Read and Write JSON file \(https://sparkbyexamples.com/spark/spark-read-and-write-json-file/\)](#)

[Spark – Read & Write Parquet file \(https://sparkbyexamples.com/spark/spark-read-write-dataframe-parquet-example/\)](#)

[Spark – Read & Write XML file \(https://sparkbyexamples.com/spark/spark-read-write-xml/\)](#)

[Spark – Read & Write Avro files \(https://sparkbyexamples.com/spark/read-write-avro-file-spark-dataframe/\)](#)

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

[Spark – Read & Write HBase using “hbase-spark” Connector \(https://sparkbyexamples.com/spark/spark-read-write-using-hbase-spark-connector/\)](#)

[Spark – Read & Write from HBase using Hortonworks \(https://sparkbyexamples.com/spark/create-spark-dataframe-from-hbase-using-hortonworks/\)](#)

[Spark – Read & Write ORC file \(https://sparkbyexamples.com/spark/spark-read-orc-file-into-dataframe/\)](#)

```
package com.sparkbyexamples.scala

import org.apache.spark.sql.SparkSession

object UnionExample extends App {

    val spark: SparkSession = SparkSession
      .master("local[1]")
      .appName("SparkByExamples.com")
      .getOrCreate()

    spark.sparkContext.setLogLevel("WARN")

    import spark.implicits._

    val simpleData = Seq(("James", "Sales", "NY", 86000),
      ("Michael", "Sales", "NY", 86000),
      ("Robert", "Sales", "CA", 81000),
      ("Maria", "Finance", "CA", 90000)
    )
    val df = simpleData.toDF("emp_name", "dept", "location", "salary")
    df.printSchema()
    df.show()

    val simpleData2 = Seq(("James", "Finance", "CA", 90000),
      ("Maria", "Finance", "CA", 90000),
      ("Jen", "Finance", "NY", 79000),
      ("Jeff", "Marketing", "CA", 80000),
      ("Kumar", "Marketing", "NY", 91000)
    )
    val df2 = simpleData2.toDF("emp_name", "dept", "location", "salary")
    df2.show(false)

    val df3 = df.union(df2)
    df3.show(false)
    df3.distinct().show(false)

    val df4 = df.unionAll(df2)
    df4.show(false)
}
```

This complete example is also available at the [GitHub \(https://github.com/spark-examples/spark-scala-examples/blob/master/src/main/scala/com/sparkbyexamples/spark/dataframe/UnionExample.scala\)](https://github.com/spark-examples/spark-scala-examples/blob/master/src/main/scala/com/sparkbyexamples/spark/dataframe/UnionExample.scala) project.

## Conclusion

[Spark – Read Binary File](https://sparkbyexamples.com/spark/spark-read-binary-file-into-dataframe/)  
(<https://sparkbyexamples.com/spark/spark-read-binary-file-into-dataframe/>).

## Spark Streaming & Kafka

[Spark Streaming – OutputModes](https://sparkbyexamples.com/spark/spark-streaming-outputmode/)  
(<https://sparkbyexamples.com/spark/spark-streaming-outputmode/>).

[Spark Streaming – Reading Files From Directory](https://sparkbyexamples.com/spark/spark-streaming-read-json-files-from-directory/)  
(<https://sparkbyexamples.com/spark/spark-streaming-read-json-files-from-directory/>).

[Spark Streaming – Reading Data From TCP Socket](https://sparkbyexamples.com/spark/spark-streaming-from-tcp-socket/)  
(<https://sparkbyexamples.com/spark/spark-streaming-from-tcp-socket/>).

[Spark Streaming – Processing Kafka Messages in JSON Format](https://sparkbyexamples.com/spark/spark-streaming-with-kafka/)  
(<https://sparkbyexamples.com/spark/spark-streaming-with-kafka/>).


[Spark Streaming – Processing Kafka messages in AVRO Format](https://sparkbyexamples.com/spark/spark-streaming-consume-and-produce-kafka-messages-in-avro-format/)  
(<https://sparkbyexamples.com/spark/spark-streaming-consume-and-produce-kafka-messages-in-avro-format/>).


[Spark SQL Batch – Consume & Produce Kafka Message](https://sparkbyexamples.com/spark/spark-batch-processing-produce-consume-kafka-topic/)  
(<https://sparkbyexamples.com/spark/spark-batch-processing-produce-consume-kafka-topic/>).


In this Spark article, you have learned how to combine two or more DataFrame's of the same schema into single DataFrame using Union method and learned the difference between the union() and unionAll() functions.

Happy learning !!


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**Manasee Kamble**

6 MAY 2020 [REPLY](#)

I am trying UnionByName on dataframes but it gives weird results in cluster mode. It runs on local as expected.

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