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Spark – Flatten nested array to single array column

Problem: How to flatten the Array of Array or Nested Array DataFrame column into a single array column using Spark.

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Solution: Spark SQL provides flatten function to convert an Array of Array column (nested Array)

ArrayType(ArrayType(StringType))
to single array column on Spark
DataFrame using scala example.

Related:

- [How to flatten nested Struct column
\(https://sparkbyexamples.com/spark/spark-flatten-nested-struct-column/\)](https://sparkbyexamples.com/spark/spark-flatten-nested-struct-column/)
- [How to explode Array & Map columns to rows
\(https://sparkbyexamples.com/spark/explode-spark-array-and-map-dataframe-column/\)](https://sparkbyexamples.com/spark/explode-spark-array-and-map-dataframe-column/)

First, let's [create a DataFrame
\(https://sparkbyexamples.com/spark/different-ways-to-create-a-spark-dataframe/\)](https://sparkbyexamples.com/spark/different-ways-to-create-a-spark-dataframe/)
with an array column within another
array column, from below example
column "subjects" is an array of
ArraType which holds all subjects
learned.

```
val arrayArrayData = Seq(  
  Row("James", List(List("Java"  
    Row("Michael", List(List("Spa  
    Row("Robert", List(List("CSha  
  )  
  
val arrayArraySchema = new Str  
  .add("subjects", ArrayType(Ar  
  
val df = spark.createDataFrame  
  spark.sparkContext.parallel  
df.printSchema()  
df.show()
```

df.printSchema() and df.show() returns
the following schema and table.

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[Variables](#)

(<https://sparkbyexamples.com/spark/spark-broadcast-variables/>).

[Spark RDD – Accumulator](#)

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[Spark RDD – Convert RDD to DataFrame](#)

(<https://sparkbyexamples.com/apache-spark-rdd/convert-spark-rdd-to-dataframe-dataset/>).

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```
root
|-- name: string (nullable = true)
|-- subjects: array (nullable = true)
|   |-- element: array (contains primitives) (nullable = true)
|   |-- element: string (contains primitives) (nullable = true)
```

```
+-----+-----+
|name   |subjects|
+-----+-----+
|James  |[[Java, Scala, C++], [S|
|Michael|[[Spark, Java, C++], [S|
|Robert |[[CSharp, VB], [Spark,|
+-----+-----+
```

Flatten – Nested array to single array

Flatten – Creates a single array from an array of arrays (nested array). If a structure of nested arrays is deeper than two levels then only one level of nesting is removed. below snippet convert “subjects” column to a single array.

```
Syntax : flatten(e: Column): Column
```

```
df.select($"name", flatten($"subj
```



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(<https://sparkbyexamples.com/spark/spark-map-vs-mappartitions-transformation/>).

Outputs:

```
+-----+-----+
|name   |flatten(subjects)|
+-----+-----+
|James  |[Java, Scala, C++, Spar|
|Michael|[Spark, Java, C++, Spar|
|Robert |[CSharp, VB, Spark, Pyt|
+-----+-----+
```

Complete Spark Flatten Nested Array Example (flatten function)

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```
package com.sparkbyexamples.spar

import org.apache.spark.sql.{Row
import org.apache.spark.sql.func
import org.apache.spark.sql.type

object ArrayOfArrayType extends

    val spark = SparkSession.build
        .master("local[1]")
        .getOrCreate()

    val arrayArrayData = Seq(
        Row("James",List(List("Java"
        Row("Michael",List(List("Spa
        Row("Robert",List(List("CSha
    )

    val arrayArraySchema = new Str
        .add("subjects",ArrayType(Ar

    val df = spark.createDataFrame
        spark.sparkContext.paralleli
    df.printSchema()
    df.show(false)

    //Convert Array of Array into
    df.select($"name",flatten($"su

}
```

Conclusion

In this article, you have learned how to defined nested array using StructType and how to flatten the nested array to a single array using Spark Flatten function and Scala example.

Happy Learning !!

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