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Spark – Extract DataFrame Column as List

Let's see how to convert/extract the Spark DataFrame column as a List (Scala/Java Collection), there are multiple ways to convert this, I will explain most of them with examples.

Remember that when you use DataFrame.collect() you get Array[Row] not List[String] hence you need to use a map() function to extract the first column from each row before convert it to a Scala/Java Collection list.



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I will also cover how to extract the Spark DataFrame column as list with out duplicates.

Let's Create a Spark DataFrame

```
val data = Seq(("James","Smith",
               ("Robert","Williams","USA","
               )
val columns = Seq("firstname","l
import spark.implicits._
val df = data.toDF(columns:_)
df.show()
//+-----+-----+-----+--
//|firstname|lastname|country|st
//+-----+-----+-----+--
//|   James|   Smith|   USA|
//| Michael|   Rose|   USA|
//|  Robert|Williams|   USA|
//|   Maria|   Jones|   USA|
//+-----+-----+-----+--
```

From above data, I will extract the state values as a List.

Example 1 – Spark Convert DataFrame Column to List

In order to convert Spark DataFrame Column to List, first it select() the column you want, next use the [Spark map\(\)](#) transformation

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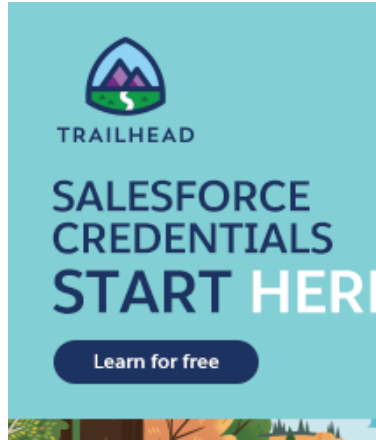
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to convert the Row to String, finally `collect()` the data to the driver (<https://sparkbyexamples.com/spark/spark-dataframe-collect/>) which returns an `Array[String]`.



Among all examples explained here this is best approach and performs better with small or large datasets.

```
val listValues=df.select("state")
                    .collect.toList
println(listValues)
//List(CA, NY, CA, FL)
```

The above examples extract all values from a DataFrame column as a List including duplicate values. If you wanted to remove the duplicates, use `distinct`.

```
println(listValues.distinct)
//List(CA, NY, FL)
```

The better option would be running `distinct()` on Spark DataFrame (<https://sparkbyexamples.com/spark/spark-remove-duplicate-rows/>) before collecting as List or Array. If you have many values in a list, this performs better.

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```
val dis=df.select("state").disti
    .collect().toList
println(dis)
//List(CA, NY, FL)
```

Example 2 – Using Typed Dataset to Extract Column List

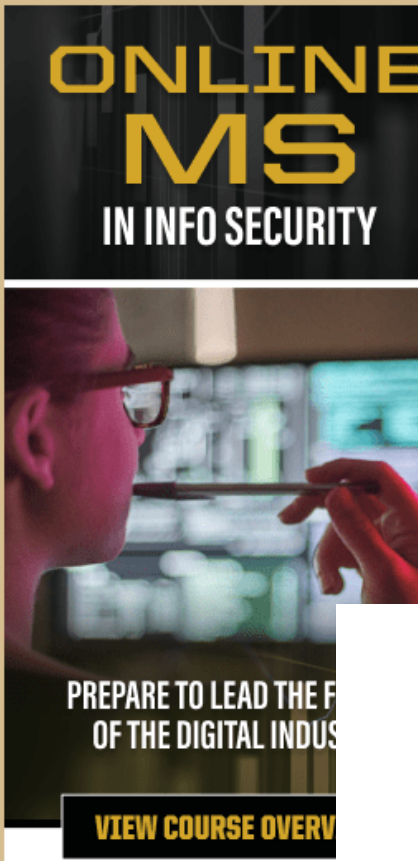
If you are using Dataset, use the below approach, since we are using Typed String encoders we don't have to use map() transformation

```
val ex3=df.select('state').as[St
    .collect.toList
println(ex3)
//List(CA, NY, CA, FL)
```

Example 3 – Using RDD to Get Column List

In this example, I have used RDD to get Column List and used RDD map() transformation to extract the column we want. RDD collect() action returns Array[Any] . This actually performs better and it is the preferred approach if you are using RDD's or PySpark DataFrame

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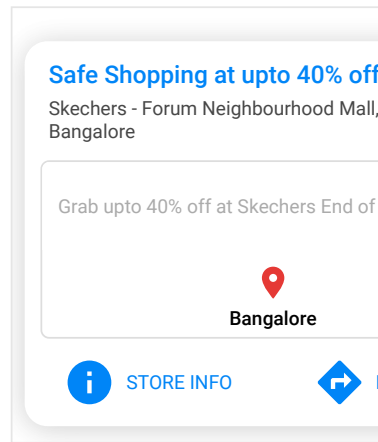
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```
val ex4=df.select("state").rdd.map{row => row.get(0)}
    .collect().toList
println(ex4.toString)
//List(CA, NY, CA, FL)
```

Example 4 – Uset collectAsList() to Get Column List

Spark also provides `collectAsList()` action to collect the DataFrame Columns as a `java.util.List[Row]`, If you are using Java this is the way to go.

```
val ex2=df.select("state").map{row => row.get(0)}
    .collectAsList
println(ex2)
//List(CA, NY, CA, FL)
```

Example 5 – Other Alternatives to Convert Column to List

This does not perform better. Here, first we are collecting the DataFrame and then extracting the first column from

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each row on Driver without utilizing the Spark cluster.


```
df.select("state").collect.map(f
```


Conclusion


In this article, I have provided many examples of how to extract/convert the Spark DataFrame column as a list with or without duplicates.


Happy Learning !!


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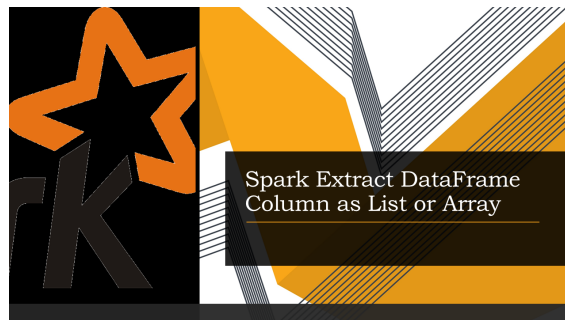
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