

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

- Spark Tutorial

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/)

Spark – Cluster Setup with Hadoop Yarn

(https://sparkbyexamples.com/spark/spark-setup-on-hadoop-yarn/)

Spark – Web/Application UI

(https://sparkbyexamples.com/spark/spark-web-ui-understanding/)

Spark – Setup with Scala and IntelliJ

(https://sparkbyexamples.com/spark/spark-setup-run-with-scala-intellij/)

Spark – How to Run Examples From this Site on IntelliJ IDEA

(https://sparkbyexamples.com/spark/how-to-run-spark-examples-from-intellij/)

Spark – SparkSession

(https://sparkbyexamples.com/spark/sparksession-explained-with-examples/)

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/)

Spark RDD – Read text file

(https://sparkbyexamples.com/apache-spark-rdd/spark-read-multiple-text-files-into-a-single-rdd/)

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Spark Groupby Example with DataFrame

Similar to SQL "GROUP BY" clause, Spark groupBy() function is used to collect the identical data into groups on DataFrame/Dataset and perform aggregate functions on the grouped data. In this article, I will explain several groupBy() examples with the Scala language.

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FAQ's (https://sparkbyexamples.com/spark-questions/)

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The same approach can be used with the Pyspark (Spark with Python).

Syntax:

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Candor Offers An On-Camp Residential Facility Through Academic Year.

[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/)

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\(https://sparkbyexamples.com/apache-spark-rdd/spark-how-to-create-an-empty-rdd/\)](https://sparkbyexamples.com/apache-spark-rdd/spark-how-to-create-an-empty-rdd/)

[Spark RDD – Transformations
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[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
\(https://sparkbyexamples.com/spark/spark-convert-rdd-to-dataframe/\)](https://sparkbyexamples.com/spark/spark-convert-rdd-to-dataframe/)

```
groupBy(col1 : scala.Predef.Str  
org.apache.spark.sql.Rela
```

When we perform groupBy() on Spark Dataframe, it returns RelationalGroupedDataset object which contains below aggregate functions.

count() - Returns the count of rows for each group.



mean() - Returns the mean of values for each group.

max() - Returns the maximum of values for each group.

min() - Returns the minimum of values for each group.

sum() - Returns the total for values for each group.

avg() - Returns the average for values for each group.

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agg() - Using agg() function, we can calculate more than one aggregate at a time.

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[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/)

`pivot()` - This function is used to Pivot the DataFrame which I will not be covered in this article as I already have a dedicated article for [Pivot & Unpivot 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/).

Preparing Data & DataFrame

Before we start, let's [create the DataFrame](#)

[\(https://sparkbyexamples.com/spark/different-ways-to-create-a-spark-dataframe/\)](https://sparkbyexamples.com/spark/different-ways-to-create-a-spark-dataframe/) from a sequence of the data to work with. This DataFrame contains columns “employee_name”, “department”, “state”, “salary”, “age” and “bonus” columns.

We will use this Spark DataFrame to run `groupBy()` on “department” columns and calculate aggregates like minimum, maximum, average, total salary for each group using `min()`, `max()` and `sum()` aggregate functions respectively. and finally, we will also see how to do group and aggregate on multiple columns.

```
import spark.implicits._
val simpleData = Seq(("James", "Sales", "NY", 86000, 35, 12000),
  ("Michael", "Sales", "NY", 86000, 35, 12000),
  ("Robert", "Sales", "CA", 81000, 36, 11000),
  ("Maria", "Finance", "CA", 90000, 32, 13000),
  ("Raman", "Finance", "CA", 99000, 33, 14000),
  ("Scott", "Finance", "NY", 83000, 38, 11500),
  ("Jen", "Finance", "NY", 79000, 33, 11000),
  ("Jeff", "Marketing", "CA", 80000, 37, 11000),
  ("Kumar", "Marketing", "NY", 91000, 39, 12000))

val df = simpleData.toDF("employee_name", "department", "state", "salary", "age", "bonus")
df.show()
```

Yields below output.

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

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

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

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

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

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

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

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

[Spark SQL – map\(\) vs flatMap\(\)](#)
(<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/>).

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

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

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

groupBy and aggregate on DataFrame columns

Let's do the `groupBy()` on `department` column of `DataFrame` and then find the sum of salary for each department using `sum()` aggregate function.

```
df.groupBy("department").sum("salary")
+-----+-----+
|department|sum(salary)|
+-----+-----+
|Sales|257000|
|Finance|351000|
|Marketing|171000|
+-----+-----+
```

Similarly, we can calculate the number of employee in each department using `count()`

```
df.groupBy("department").count()
+-----+-----+
|department|count|
+-----+-----+
```

Calculate the minimum salary of each department using `min()`

```
df.groupBy("department").min("salary")
+-----+-----+
|department|min(salary)|
+-----+-----+
```

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

[Spark SQL – Flatten Nested Struct Column](#)
(<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/>).

[Spark SQL – Explode Array & Map Columns](#)
(<https://sparkbyexamples.com/spark/explode-spark-array-and-map-dataframe-column/>).

[Spark SQL – Sampling](#)
(<https://sparkbyexamples.com/spark/spark-sampling-with-examples/>).

[Spark SQL – Partitioning](#)
(<https://sparkbyexamples.com/spark/spark-partitioning-understanding/>).

Spark SQL Functions

[Spark SQL String Functions](#)
(<https://sparkbyexamples.com/spark/usage-of-spark-sql-string-functions/>).

[Spark SQL Date and Timestamp Functions](#)
(<https://sparkbyexamples.com/spark/spark-sql-date-and-time-functions/>).

[Spark SQL Array Functions](#)
(<https://sparkbyexamples.com/spark/spark-sql-array-functions/>).

[Spark SQL Map Functions](#)
(<https://sparkbyexamples.com/spark/spark-sql-map-functions/>).

[Spark SQL Sort Functions](#)
(<https://sparkbyexamples.com/spark/spark-sql-sort-functions/>).

[Spark SQL Aggregate Functions](#)
(<https://sparkbyexamples.com/>).

Calculate the maximin salary of each department using `max()`

```
df.groupBy("department").max("s
```

Calculate the average salary of each department using `avg()`

```
df.groupBy("department").avg( "
```

Calculate the mean salary of each department using `mean()`

```
df.groupBy("department").mean(
```

groupBy and aggregate on multiple DataFrame columns

Similarly, we can also run `groupBy` and `aggregate` on two or more DataFrame columns, below example does group by on department, state and does `sum()` on salary and bonus columns.

```
//GroupBy on multiple columns
df.groupBy("department","state"
    .sum("salary","bonus")
    .show(false)
```

This yields the below output.

[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/>)

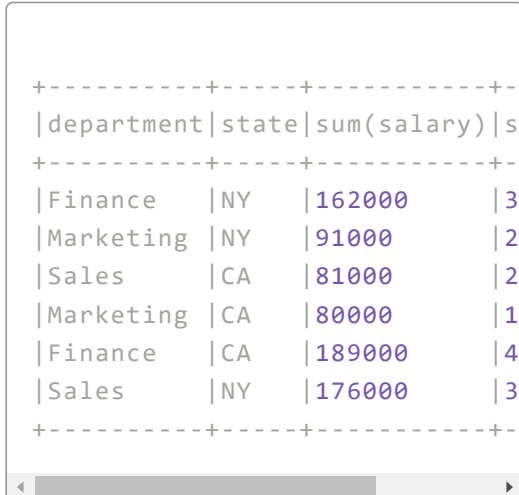
[Spark – Read & Write Avro files](#)
(<https://sparkbyexamples.com/spark/read-write-avro-file-spark-dataframe/>)

[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/>)



department	state	sum(salary)	count(*)
Finance	NY	162000	3
Marketing	NY	91000	2
Sales	CA	81000	2
Marketing	CA	80000	1
Finance	CA	189000	4
Sales	NY	176000	3

similarly, we can run group by and aggregate on tow or more columns for other aggregate functions, please refer below source code for example.

Running more aggregates at a time

Using `agg()` aggregate function we can calculate many aggregations at a time on a single statement using [Spark SQL aggregate](#)

(<https://sparkbyexamples.com/spark/spark-sql-aggregate-functions/>) functions `sum()`

(<https://sparkbyexamples.com/spark/spark-sql-aggregate-functions/#sum>),

`avg()`

(<https://sparkbyexamples.com/spark/spark-sql-aggregate-functions/#avg>),

`min()`

(<https://sparkbyexamples.com/spark/spark-sql-aggregate-functions/#min>),

`max()`

(<https://sparkbyexamples.com/spark/spark-sql-aggregate-functions/#max>)

`mean()`

(<https://sparkbyexamples.com/spark/spark-sql-aggregate-functions/#mean>)

e.t.c. In order to use these, we should

```
import "import
```

```
org.apache.spark.sql.functions.
```

```
_"
```

```
–
```


[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/>).



```
import org.apache.spark.sql.functions._
df.groupBy("department")
  .agg(
    sum("salary").as("sum_salary"),
    avg("salary").as("avg_salary"),
    sum("bonus").as("sum_bonus"),
    max("bonus").as("max_bonus")
  )
  .show(false)
```

This example does group on department column and calculates sum() and avg() of salary for each department and calculates sum() and max() of bonus for each department.

```
+-----+-----+-----+
|department|sum_salary|avg_salary|
+-----+-----+-----+
|Sales      |257000    |85666.666|
|Finance    |351000    |87750.0  |
|Marketing  |171000    |85500.0  |
+-----+-----+-----+
```

Using filter on aggregate data

Similar to SQL “HAVING” clause, On Spark DataFrame we can use either where() (<https://sparkbyexamples.com/spark/working-with-spark-dataframe-filter/>) or filter() (<https://sparkbyexamples.com/spark/working-with-spark-dataframe-filter/>) function to filter the rows of aggregated

1.

```
f.groupBy("department")
  .agg(
    sum("salary").as("sum_salary"),
    avg("salary").as("avg_salary"),
    sum("bonus").as("sum_bonus"),
    max("bonus").as("max_bonus")
  )
  .where(col("sum_bonus") >= 100000)
  .show(false)
```





Ⓜ️ removes the sum of a bonus that less than 50000 and yields below out.

department	sum_salary	avg_sala
Sales	257000	85666.66
Finance	351000	87750.0

source code


```

package com.sparkbyexamples.spa

import org.apache.spark.sql.Spa
import org.apache.spark.sql.fun

object GroupbyExample extends App {
  val spark: SparkSession = SparkSession
    .master("local[1]")
    .appName("SparkByExamples.co
    .getOrCreate()

  spark.sparkContext.setLogLevel(WARNING)
  import spark.implicits._

  val simpleData = Seq(("James", 30000, "Sales", "NY", 86000),
    ("Michael", "Sales", "NY", 86000),
    ("Robert", "Sales", "CA", 81000),
    ("Maria", "Finance", "CA", 90000),
    ("Raman", "Finance", "CA", 99000),
    ("Scott", "Finance", "NY", 83000),
    ("Jen", "Finance", "NY", 79000),
    ("Jeff", "Marketing", "CA", 80000),
    ("Kumar", "Marketing", "NY", 90000)
  )
  val df = simpleData.toDF("emp_id", "name", "department", "state")
  df.show()

  //Group By on single column
  df.groupBy("department").count().show()
  df.groupBy("department").avg("salary").show()
  df.groupBy("department").sum("salary").show()
  df.groupBy("department").min("salary").show()
  df.groupBy("department").max("salary").show()
  df.groupBy("department").mean("salary").show()

  //GroupBy on multiple columns
  df.groupBy("department", "state").sum("salary", "bonus").show()
  df.groupBy("department", "state").avg("salary", "bonus").show()
  df.groupBy("department", "state").max("salary", "bonus").show()
  df.groupBy("department", "state").min("salary", "bonus").show()
  df.groupBy("department", "state").mean("salary", "bonus").show()

  //Running Filter
  df.groupBy("department", "state").sum("salary", "bonus").show()

```

```

        .show(false)

//using agg function
df.groupBy("department")
  .agg(
    sum("salary").as("sum_salary"),
    avg("salary").as("avg_salary"),
    sum("bonus").as("sum_bonus"),
    max("bonus").as("max_bonus")
  )
  .show(false)

df.groupBy("department")
  .agg(
    sum("salary").as("sum_salary"),
    avg("salary").as("avg_salary"),
    sum("bonus").as("sum_bonus"),
    stddev("bonus").as("stddev_bonus")
  )
  .where(col("sum_bonus") > 50000)
  .show(false)
}

```

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


Conclusion


In this tutorial, you have learned how to use `groupBy()` and aggregate functions on Spark DataFrame and also learned how to run these on multiple columns and finally filtering data on the aggregated column.


Thanks for reading. If you like it, please do share the article by following the below social links and any comments or suggestions are welcome in the comments sections!

Happy Learning !!

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 (<https://sparkbyexamples.com/spark/using-groupby-on-dataframe/?share=reddit&nb=1>)

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t (<https://sparkbyexamples.com/spark/using-groupby-on-dataframe/?share=tumblr&nb=1>)

✓ (<https://sparkbyexamples.com/spark/using-groupby-on-dataframe/?share=pocket&nb=1>)

in (<https://sparkbyexamples.com/spark/using-groupby-on-dataframe/?share=linkedin&nb=1>)

🐦 (<https://sparkbyexamples.com/spark/using-groupby-on-dataframe/?share=twitter&nb=1>)

TAGS: [AGG](#)

([HTTPS://SPARKBYEXAMPLES.COM/TAG/AGG/](https://sparkbyexamples.com/tag/agg/)),

[GROUPBY](#)

([HTTPS://SPARKBYEXAMPLES.COM/TAG/GROUPBY/](https://sparkbyexamples.com/tag/groupby/)).



NNK

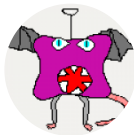
(<https://sparkbyexamples.com/author/admin/>)

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SparkByExamples.com is a Big Data and Spark examples community page, all examples are simple and easy to understand and well tested in our development environment [Read more ...](#)

(<https://sparkbyexamples.com/about-sparkbyexamples/>)

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[REPLY](#)

are you using python or scala for this tutorial ?



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[REPLY](#)

Examples on this page use Scala. If you are looking for GroupBy with Python (PySpark) see

<https://sparkbyexamples.com/pyspark/pyspark-groupby-explained-with-example/>

(<https://sparkbyexamples.com/pyspark/pyspark-groupby-explained-with-example/>)



sri bhargavi

23 NOV 2020

[REPLY](#)



Hi, why we use agg
without agg also can we
perform agg functions
rt??

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Categories

Apache Hadoop
(<https://sparkbyexamples.com/category/hadoop/>)

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