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FAQ's PySpark distinct() function is used

question/ dropDuplicates() is used to drop rows based on selected (one or multiple) columns. In this article, you will learn how to use distinct() and dropDuplicates() functions with PySpark example.



Before we start, first let's [create a DataFrame \(https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/\)](https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/) with some duplicate rows and

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[PySpark – Convert RDD to DataFrame
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[PySpark – Convert DataFrame to Pandas
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[PySpark – show\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-show-display-dataframe-contents-in-table/\)](https://sparkbyexamples.com/pyspark/pyspark-show-display-dataframe-contents-in-table/)

[PySpark – StructType & StructField
\(https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/\)](https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/)

[PySpark – Row Class
\(https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/)

[PySpark – Column Class
\(https://sparkbyexamples.com/pyspark/pyspark-column-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-column-functions/)

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

[PySpark – collect\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-collect/\)](https://sparkbyexamples.com/pyspark/pyspark-collect/)

[PySpark – withColumn\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-withcolumn/\)](https://sparkbyexamples.com/pyspark/pyspark-withcolumn/)

values on a few columns. We use this DataFrame to demonstrate how to get distinct multiple columns.

```
import pyspark
from pyspark.sql import SparkSession
from pyspark.sql.functions import countDistinct

spark = SparkSession.builder.appName('Distinct').getOrCreate()

data = [("James", "Sales", 3000),
        ("Michael", "Sales", 4600),
        ("Robert", "Sales", 4100),
        ("Maria", "Finance", 3000),
        ("James", "Sales", 3000), \
        ("Scott", "Finance", 3300),
        ("Jen", "Finance", 3900), \
        ("Jeff", "Marketing", 3000),
        ("Kumar", "Marketing", 2000),
        ("Saif", "Sales", 4100) \
        ]

columns = ["employee_name", "department", "salary"]
df = spark.createDataFrame(data, columns)
df.printSchema()
df.show(truncate=False)
```

Yields below output

```
+-----+-----+-----+
|employee_name|department|salary|
+-----+-----+-----+
|James        |Sales     |3000   |
|Michael      |Sales     |4600   |
|Robert       |Sales     |4100   |
|Maria        |Finance   |3000   |
|James        |Sales     |3000   |
|Scott        |Finance   |3300   |
|Jen          |Finance   |3900   |
|Jeff         |Marketing |3000   |
|Kumar        |Marketing |2000   |
|Saif         |Sales     |4100   |
+-----+-----+-----+
```

On the above table, record with employer name Robert has duplicate rows, As you notice we have 2 rows that have duplicate values on all columns and we have 4 rows that have duplicate values on department and salary columns.

[PySpark – withColumnRenamed\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-rename-dataframe-column/>).

[PySpark – where\(\) & filter\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-where-filter/>).

[PySpark – drop\(\) & dropDuplicates\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-distinct-to-drop-duplicates/>).

[PySpark – orderBy\(\) and sort\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-orderby-and-sort-explained/>).

[PySpark – groupBy\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-groupby-explained-with-example/>).

[PySpark – join\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-join-explained-with-examples/>).

[PySpark – union\(\) & unionAll\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-union-and-unionall/>).

[PySpark – unionByName\(\).](#)
(<https://sparkbyexamples.com/spark/spark-merge-two-dataframes-with-different-columns/>).

[PySpark – UDF \(User Defined Function\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-udf-user-defined-function/>).

[PySpark – map\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-map-transformation/>).

[PySpark – flatMap\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-flatmap-transformation/>).

[pyspark – foreach\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-loop-iterate-through-rows-in-dataframe/#use-foreach-loop-through-dataframe>).

[PySpark – sample\(\) vs sampleBy\(\).](#)

1. Get Distinct Rows (By Comparing All Columns)

On the above DataFrame, we have a total of 10 rows with 2 rows having all values duplicated, performing distinct on this DataFrame should get us 9 after removing 1 duplicate row.



```
distinctDF = df.distinct()
print("Distinct count: "+str(distinctDF.count()))
distinctDF.show(truncate=False)
```

distinct() function on DataFrame returns a new DataFrame after removing the duplicate records. This example yields the below output.

```
Distinct count: 9
+-----+-----+-----+
|employee_name|department|salary|
+-----+-----+-----+
|James        |Sales     |3000   |
|Michael      |Sales     |4600   |
|Maria        |Finance   |3000   |
|Robert       |Sales     |4100   |
|Saif         |Sales     |4100   |
|Scott        |Finance   |3300   |
|Jeff         |Marketing |3000   |
|Jen          |Finance   |3900   |
|Kumar        |Marketing |2000   |
+-----+-----+-----+
```

Alternatively, you can also run dropDuplicates() function which returns a new DataFrame after removing duplicate rows.

[\(https://sparkbyexamples.com/pyspark/pyspark-sampling-example/\)](https://sparkbyexamples.com/pyspark/pyspark-sampling-example/).

[PySpark – fillna\(\) & fill\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-fillna-fill-replace-null-values/\)](https://sparkbyexamples.com/pyspark/pyspark-fillna-fill-replace-null-values/).

[PySpark – pivot\(\)_\(Row to Column\).
\(https://sparkbyexamples.com/pyspark/pyspark-pivot-and-unpivot-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-pivot-and-unpivot-dataframe/).

[PySpark – partitionBy\(\).
\(https://sparkbyexamples.com/pyspark/pyspark-partitionby-example/\)](https://sparkbyexamples.com/pyspark/pyspark-partitionby-example/).

[PySpark – ArrayType Column \(Array\).
\(https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/\)](https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/).

[PySpark – MapType \(Map/Dict\).
\(https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/\)](https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/).

PySpark SQL Functions

[PySpark – Aggregate Functions
\(https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/).

[PySpark – Window Functions
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[PySpark – Date and Timestamp Functions
\(https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/).

[PySpark – JSON Functions
\(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/\)](https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/).

PySpark Datasources

[PySpark – Read & Write CSV File
\(https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/).

[PySpark – Read & Write Parquet File
\(https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file-into-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file-into-dataframe/).

```
df2 = df.dropDuplicates()
print("Distinct count: "+str(df2.count()))
df2.show(truncate=False)
```

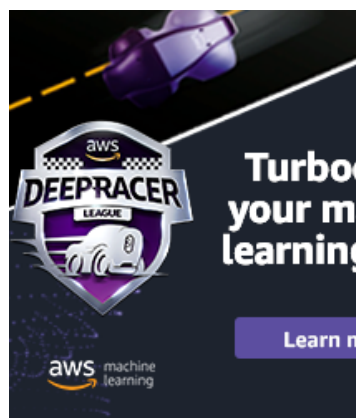
2. PySpark Distinct of Selected Multiple Columns

PySpark doesn't have a distinct method which takes columns that should run distinct on (drop duplicate rows on selected multiple columns) however, it provides another signature of dropDuplicates() function which takes multiple columns to eliminate duplicates.

Note that calling dropDuplicates() on DataFrame returns a new DataFrame with duplicate rows removed.

```
dropDisDF = df.dropDuplicates([col1, col2])
print("Distinct count of department")
dropDisDF.show(truncate=False)
```

Yields below output. If you notice the output, It dropped 2 records that are duplicate.



[pyspark/pyspark-read-and-write-parquet-file/](#)

[PySpark – Read & Write JSON file](#)
(<https://sparkbyexamples.com/pyspark/pyspark-read-json-file-into-dataframe/>)



Distinct count of department &

employee_name	department	salary
Jen	Finance	3900
Maria	Finance	3000
Scott	Finance	3300
Michael	Sales	4600
Cumar	Marketing	2000
Robert	Sales	4100
James	Sales	3000
Jeff	Marketing	3000

Source Code to Get

Distinct Rows

[i](#) [x](#)

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(<https://sparkbyexamples.com/pyspark/pyspark-sql-expr-expression-function/>)



[PySpark – lit\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/\)](https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/)

[PySpark – split\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-convert-string-to-array-column/\)](https://sparkbyexamples.com/pyspark/pyspark-convert-string-to-array-column/)

[PySpark – concat_ws\(\)
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[Pyspark – substring\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-substring-from-a-column/\)](https://sparkbyexamples.com/pyspark/pyspark-substring-from-a-column/)

[PySpark – translate\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#translate-replace-character-by-character\)](https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#translate-replace-character-by-character)

[PySpark – regexp_replace\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#regexp_replace-replace-string-columns\)](https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#regexp_replace-replace-string-columns)

[PySpark – overlay\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#overlay-function\)](https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#overlay-function)

[PySpark – to_timestamp\(\)
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[PySpark – to_date\(\)
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[PySpark – date_format\(\)
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[PySpark – datediff\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#datediff\)](https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#datediff)

[PySpark – months_between\(\)
\(https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#months_between\)](https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#months_between)

```
import pyspark
from pyspark.sql import SparkSession
from pyspark.sql.functions import concat_ws, split

spark = SparkSession.builder.appName('PySpark-SQL').getOrCreate()

data = [("James", "Sales", 3000),
        ("Michael", "Sales", 4600),
        ("Robert", "Sales", 4100),
        ("Maria", "Finance", 3000),
        ("James", "Sales", 3000), \
        ("Scott", "Finance", 3300),
        ("Jen", "Finance", 3900), \
        ("Jeff", "Marketing", 3000),
        ("Kumar", "Marketing", 2000),
        ("Saif", "Sales", 4100) \
        ]

columns= ["employee_name", "department"]
df = spark.createDataFrame(data, columns)
df.printSchema()
df.show(truncate=False)

#Distinct
distinctDF = df.distinct()
print("Distinct count: "+str(distinctDF.count()))
distinctDF.show(truncate=False)

#Drop duplicates
df2 = df.dropDuplicates()
print("Distinct count: "+str(df2.count()))
df2.show(truncate=False)

#Drop duplicates on selected columns
dropDisDF = df.dropDuplicates(["department"])
print("Distinct count of department: "+str(dropDisDF.count()))
dropDisDF.show(truncate=False)
}
```

The complete example is available at [GitHub \(https://github.com/sparkbyexamples/pyspark-examples/blob/master/pyspark-distinct.py\)](https://github.com/sparkbyexamples/pyspark-examples/blob/master/pyspark-distinct.py) for reference.

Conclusion

In this PySpark SQL article, you have learned `distinct()` method which is used to get the distinct values of rows (all columns) and also learned how to use `dropDuplicates()` to get the distinct and finally learned using `dropDuplicates()` function to get distinct of multiple columns.

[PySpark – explode\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-explode-nested-array-into-rows/>).

[PySpark – array_contains\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/#array_contains).

[PySpark – array\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/#array>).

[PySpark – collect_list\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/#collect-list>).

[PySpark – collect_set\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/#collect-set>).

[PySpark – create_map\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-convert-dataframe-columns-to-maptype-dict/>).

[PySpark – map_keys\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/#map_keys).

[PySpark – map_values\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/#map_values).

[PySpark – struct\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/#update-struct-function>).

[PySpark – countDistinct\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-count-distinct-from-dataframe/>).

[PySpark – sum\(\).avg\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-dataframe-groupby-and-sort-by-descending-order/>).

[PySpark – row_number\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-window-functions/#row_number).

[PySpark – rank\(\)](#)
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[PySpark – typedLit\(\).
\(https://sparkbyexamples.com/py-spark/pyspark-lit-add-literal-constant/#typedlit\)](https://sparkbyexamples.com/py-spark/pyspark-lit-add-literal-constant/#typedlit)

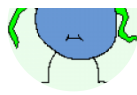
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[PySpark – get_json_object\(\).
\(https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#get_json_object\)](https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#get_json_object)

[PySpark – schema_of_json\(\).
\(https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#schema_of_json\)](https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#schema_of_json)



abdulsattar

4 APR 2021 [REPLY](#)

bro please correct them above if there is no duplicate , i spent alot time on this and after all i came to see if there is someone else having same problem



NNK 4 APR 2021 [REPLY](#)

Hi Abdulsattar, I have updated the article when it was pointed out the first time. You should not see duplicate() function used anywhere. Could you please let me know where you are seeing, may be it's caching somewhere.



Sneha 31 OCT 2020 [REPLY](#)

I don't see duplicate() method used, is there a confusion between distinct() and duplicate() ? Please check.



NNK 1 NOV 2020 [REPLY](#)

Thanks Sneha. Yes, it should be distinct(), there is no duplicate but PySpark also has dropDuplicates().

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