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PySpark Tutorial

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(https://sparkbyexamples.com/pyspark-tutorial/#pyspark-installation)

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[PySpark – RDD](#)

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[PySpark – repartition\(\) vs coalesce\(\)](#)

(https://sparkbyexamples.com/pyspark/pyspark-repartition-vs-coalesce/)

[PySpark – Broadcast Variables](#)

(https://sparkbyexamples.com/pyspark/pyspark-broadcast-variables/)

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PySpark orderBy() and sort() explained

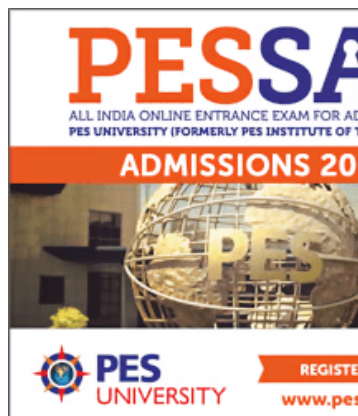
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(https://sparkbyexamples.com/author/sparkbyexam

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You can use either `sort()` or `orderBy()` function of PySpark DataFrame to sort DataFrame by ascending or descending order based on single or multiple columns, you can also do sorting using PySpark SQL sorting functions, In this article, I will explain all these different ways using PySpark examples.



- [Using sort\(\) function](#)
- [Using orderBy\(\) function](#)
- [Ascending order](#)
- [Descending order](#)
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[PySpark – Accumulator](https://sparkbyexamples.com/pyspark/pyspark-accumulator-with-example/)
(<https://sparkbyexamples.com/pyspark/pyspark-accumulator-with-example/>).

PySpark DataFrame

[PySpark – 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/>).

[PySpark – Create an empty DataFrame](https://sparkbyexamples.com/pyspark/pyspark-create-an-empty-dataframe/)
(<https://sparkbyexamples.com/pyspark/pyspark-create-an-empty-dataframe/>).

[PySpark – Convert RDD to DataFrame](https://sparkbyexamples.com/pyspark/convert-pyspark-rdd-to-dataframe/)
(<https://sparkbyexamples.com/pyspark/convert-pyspark-rdd-to-dataframe/>).

[PySpark – Convert DataFrame to Pandas](https://sparkbyexamples.com/pyspark/convert-pyspark-dataframe-to-pandas/)
(<https://sparkbyexamples.com/pyspark/convert-pyspark-dataframe-to-pandas/>).

[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/pyspark-select-columns-from-pyspark-dataframe/)
(<https://sparkbyexamples.com/pyspark/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/>).

Related: [How to sort DataFrame by using Scala](https://sparkbyexamples.com/spark/how-to-sort-dataframe-column-explained/)
(<https://sparkbyexamples.com/spark/how-to-sort-dataframe-column-explained/>).

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/>).

```
simpleData = [("James", "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", 91000)]

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

This Yields below output.

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

+-----+-----+-----+
|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|
+-----+-----+-----+
```

[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/>).

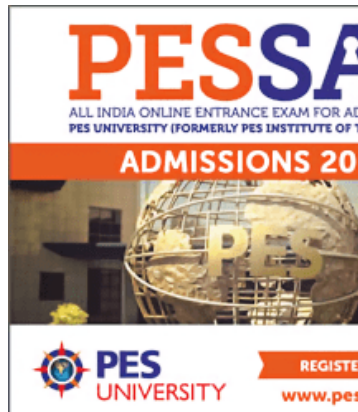
[PySpark – flatMap\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-flatmap-transformation/>).

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

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

DataFrame sorting using the sort() function

PySpark DataFrame class provides `sort()` function to sort on one or more columns. By default, it sorts by ascending order.



Syntax

```
sort(self, *cols, **kwargs):
```

Example

```
df.sort("department", "state").show()
df.sort(col("department"), col("state")).show()
```

The above two examples return the same below output, the first one takes the DataFrame column name as a string and the next takes columns in Column type. This table sorted by the first department column and then the state column.

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

[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
\(https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file/\)](https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file/)

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

DataFrame sorting using orderBy() function

PySpark DataFrame also provides orderBy() function to sort on one or more columns. By default, it orders by ascending.

Example

```
df.orderBy("department", "state")
df.orderBy(col("department"), col("state"))
```

This returns the same output as the previous section.

Sort by Ascending (ASC)

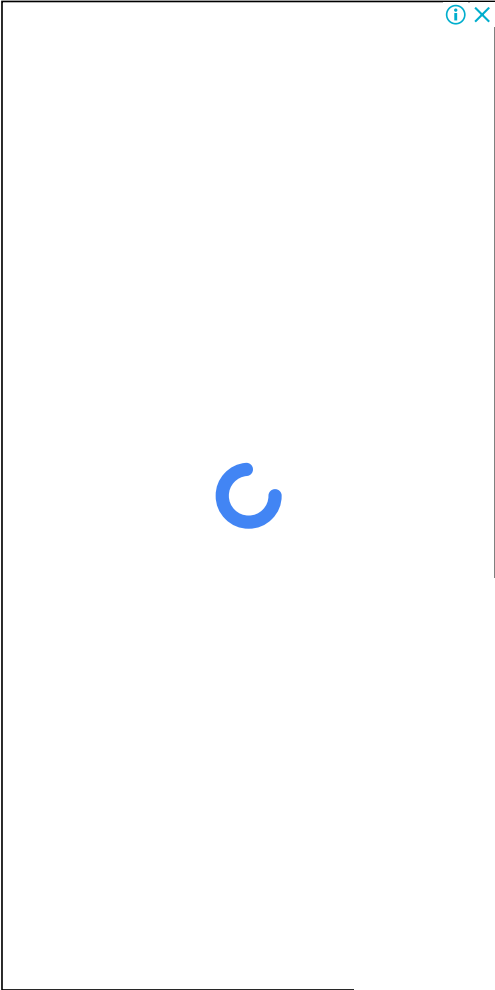
If you wanted to specify the ascending order/sort explicitly on DataFrame, you can use the asc method of the Column function. for example

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

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

```
df.sort(df.department.asc(),df.state.asc())
df.sort(col("department").asc(),col("state").asc())
df.orderBy(col("department").asc(),col("state").asc())
```

The above three examples return the same output.



employee_name	department	state
Maria	Finance	CA
Raman	Finance	CA
Den	Finance	NY
Scott	Finance	NY
Jeff	Marketing	CA
Kumar	Marketing	NY
Robert	Sales	CA
James	Sales	NY
Michael	Sales	NY

Sort by Descending (DESC)

If you wanted to specify the sorting by descending order on DataFrame, you can use the desc method of the orderBy column function. for example. From our previous example, let's use desc on the state column.

```
df.sort(df.department.asc(),df.state.desc())
df.sort(col("department").asc(),col("state").desc())
df.orderBy(col("department").asc(),col("state").desc())
```

This yields the below output for all three examples.

- PySpark Built-In Functions**
- [PySpark – when\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-when-otherwise/>)
- [PySpark – expr\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-sql-expr-expression-function/>)
- [PySpark – lit\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/>)
- [PySpark – split\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-convert-string-to-array-column/>)

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

[Pyspark – substring\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-substring-from-a-column/>).

[PySpark – translate\(\)](#)
(<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).

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

[PySpark – to_timestamp\(\)](#)
(https://sparkbyexamples.com/spark/pyspark-to_timestamp-convert-string-to-timestamp-type/).

[PySpark – to_date\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-to_date-convert-timestamp-to-date/).

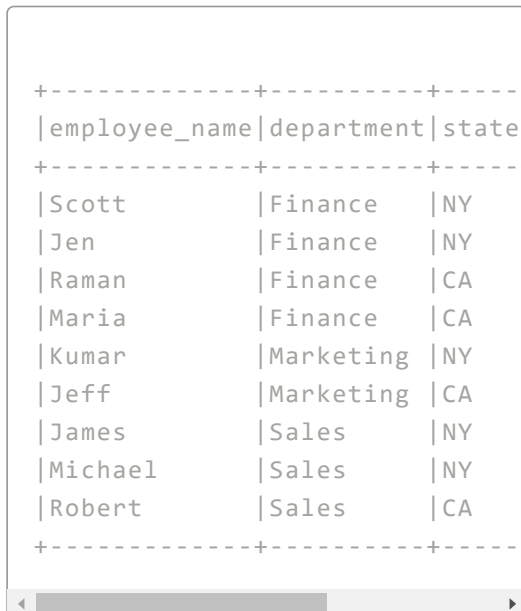
[PySpark – date_format\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-date_format-convert-date-to-string-format/).

[PySpark – 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())).

[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).



A screenshot of a PySpark DataFrame output. The table has three columns: employee_name, department, and state. The data is sorted by employee_name in ascending order. The output is displayed in a light gray box with a scrollbar at the bottom.

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

Besides `asc()` and `desc()` functions, PySpark also provides `asc_nulls_first()` and `asc_nulls_last()` and equivalent descending functions.

Using Raw SQL

Below is an example of how to sort DataFrame using raw SQL syntax.



A screenshot of PySpark code using raw SQL to sort a DataFrame. The code is displayed in a light gray box with a scrollbar at the bottom.

```
df.createOrReplaceTempView("EMP")
spark.sql("select employee_name,
```

The above two examples return the same output as above.

Dataframe Sorting

Complete Example

[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\(\).](#)
(<https://sparkbyexamples.com/pyspark/pyspark-window-functions/#rank>).

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

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

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

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

simpleData = [("James", "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", 91000)]

columns= ["employee_name", "department", "state", "salary"]

df = spark.createDataFrame(data=simpleData, schema=columns)

df.printSchema()
df.show(truncate=False)

df.sort("department", "state").show()
df.sort(col("department"), col("state")).show()

df.orderBy("department", "state").show()
df.orderBy(col("department"), col("state")).show()

df.sort(df.department.asc(), df.salary.asc()).show()
df.sort(col("department").asc(), col("salary").asc()).show()
df.orderBy(col("department").asc(), col("salary").asc()).show()

df.sort(df.department.asc(), df.salary.desc()).show()
df.sort(col("department").asc(), col("salary").desc()).show()
df.orderBy(col("department").asc(), col("salary").desc()).show()

df.createOrReplaceTempView("EMPLOYEE")
spark.sql("select employee_name, department, state, salary from EMPLOYEE").show()
```

This complete example is also available at [PySpark sorting GitHub project](#) (<https://github.com/spark-examples/pyspark-examples/blob/master/pyspark-orderby.py>) for reference.

Conclusion

Here you have learned how to Sort PySpark DataFrame columns using `sort()`, `orderBy()` and using SQL

PySpark – typedLit().
(<https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/#typedlit>).

PySpark – from_json().
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#from_json).

PySpark – to_json().
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#to_json).

PySpark – json_tuple().
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#json_tuple).

PySpark – get_json_object().
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#get_json_object).

PySpark – schema_of_json().
(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#schema_of_json).

sort functions and used this function with PySpark SQL along with Ascending and Descending sorting orders.

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2



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(<https://sparkbyexamples.com/pyspark/pyspark-orderby-and-sort-explained/?share=linkedin&nb=1>)



(<https://sparkbyexamples.com/pyspark/pyspark-orderby-and-sort-explained/?share=twitter&nb=1>)

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

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Spark Check String Column Has Numeric Values
(https://sparkbyexamples.com/spark/spark-check-string-column-has-numeric-values/)

Spark Check Column Data Type is Integer or String
(https://sparkbyexamples.com/spark/spark-check-column-data-type-is-integer-or-string/)

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