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PySpark Tutorial

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PySpark

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FAQ's PySpark DataFrame show() is used to

display the contents of the DataFrame in a Table Row & Column Format. By default, it shows only 20 Rows, and the column values are truncated at 20 characters.

More ▼ (https://sparkbyexamples.com/)



1. PySpark DataFrame show() Syntax & Example

PySpark – Accumulator
(<https://sparkbyexamples.com/pyspark/pyspark-accumulator-with-example/>).

PySpark DataFrame

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

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/>).

PySpark – StructType & StructField
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PySpark – Row Class
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PySpark – Column Class
(<https://sparkbyexamples.com/pyspark/pyspark-column-functions/>).

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

PySpark – collect().
(<https://sparkbyexamples.com/pyspark/pyspark-collect/>).

PySpark – withColumn().
(<https://sparkbyexamples.com/pyspark/pyspark-withcolumn/>).

1.1 Syntax

```
def show(self, n=20, truncate=True)
```

1.2 Example

```
from pyspark.sql import SparkSession
spark = SparkSession.builder.appName('Example').getOrCreate()
columns = ["Seqno","Quote"]
data = [(1, "Be the change that you want to see in the world"),
        (2, "Everyone thinks of change coming from another person"),
        (3, "The purpose of our lives is to be happy"),
        (4, "Be cool.")]
df = spark.createDataFrame(data, columns)
df.show()
```

Seqno	Quote
1	Be the change that you want to see in the world
2	Everyone thinks of change coming from another person
3	The purpose of our lives is to be happy
4	Be cool.

As you see above, values in the Quote column is truncated at 20 characters, Let's see how to display the full column contents.

```
#Display full column contents
df.show(truncate=False)
```

Seqno	Quote
1	Be the change that you want to see in the world
2	Everyone thinks of change coming from another person
3	The purpose of our lives is to be happy
4	Be cool.

By default show() method displays only 20 rows from PySpark DataFrame. The below example limit the rows to 2 and full column contents. Our DataFrame has just 4 rows hence I can't demonstrate with more than 4 rows. If

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(<https://sparkbyexamples.com/pyspark/pyspark-rename-dataframe-column/>).

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(<https://sparkbyexamples.com/pyspark/pyspark-where-filter/>).

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(<https://sparkbyexamples.com/pyspark/pyspark-distinct-to-drop-duplicates/>).

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

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(<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/>).

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(<https://sparkbyexamples.com/pyspark/pyspark-map-transformation/>).

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

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

you have a DataFrame with thousands of rows try changing the value from 2 to 100 to display more than 20 rows.

```
# Display 2 rows and full column
df.show(2,truncate=False)

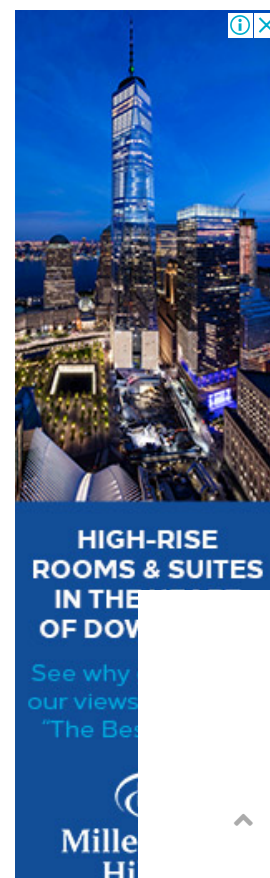
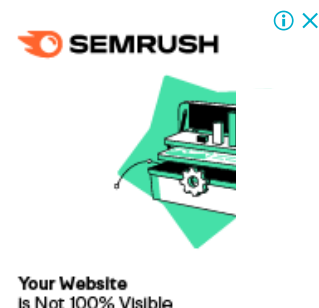
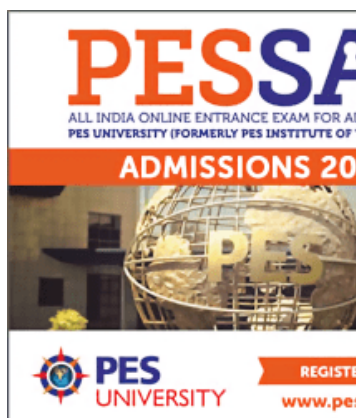
#+-----+-----+
#|Seqno|Quote
#+-----+-----+
#|1    |Be the change that you
#|2    |Everyone thinks of chang
#+-----+-----+
```

You can also truncate the column value at desired length.

```
# Display 2 rows & column value
df.show(2,truncate=25)

#+-----+-----+
#|Seqno|                               Quo
#+-----+-----+
#|    1|Be the change that you.
#|    2|Everyone thinks of cha.
#+-----+-----+
#only showing top 2 rows
```

Finally, let's see how to display the DataFrame vertically record by record.



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

[PySpark – MapType \(Map/Dict\).
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PySpark Datasources

[PySpark – Read & Write CSV File
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[PySpark – Read & Write Parquet File
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```
# Display DataFrame rows & columns
df.show(n=3,truncate=25,vertical=False)

#-RECORD 0-----
# Seqno | 1
# Quote | Be the change that you want to see
#-RECORD 1-----
# Seqno | 2
# Quote | Everyone thinks of change as a bad thing
#-RECORD 2-----
# Seqno | 3
# Quote | The purpose of our life is to find out what we are made of
```

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

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



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(<https://sparkbyexamples.com/pyspark/pyspark-when-otherwise/>).

[PySpark – expr\(\)](#)
(<https://sparkbyexamples.com/pyspark/pyspark-sql-expr-expression-function/>).



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

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

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

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

[PySpark – months_between\(\).
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[PySpark – array_contains\(\).](https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/#array_contains)
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[PySpark – create_map\(\).](https://sparkbyexamples.com/pyspark/pyspark-convert-dataframe-columns-to-maptype-dict/)
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(<https://sparkbyexamples.com/pyspark/pyspark-count-distinct-from-dataframe/>).

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