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PySpark Tutorial

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(https://sparkbyexamples.com/pyspark/pyspark-parallelize-create-rdd/)

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PySpark Read and Write Parquet File

 Prabha

(https://sparkbyexamples.com/author/prabha/)

 PySpark

(https://sparkbyexamples.com/category/pyspark/)

Pyspark SQL provides methods to read Parquet file into DataFrame and write DataFrame to Parquet files, `parquet()` function from `DataFrameReader` and `DataFrameWriter` are used to read from and write/create a Parquet file respectively. Parquet files maintain the schema along with the data hence it is used to process a structured file.

In this article, I will explain how to read from and write a parquet file and also will explain how to partition the data and retrieve the partitioned data with the help of SQL.



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

Below are the simple statements on how to write and read parquet files in PySpark which I will explain in detail later sections.

```
df.write.parquet("/tmp/out/people.parquet")
parDF1=spark.read.parquet("/tmp/out/people.parquet")
```

Before, I explain in detail, first let's understand What is Parquet file and its advantages over CSV, JSON and other text file formats.

What is Parquet File?

[Apache Parquet](https://parquet.apache.org/) (<https://parquet.apache.org/>) file is a columnar storage format available to any project in the Hadoop ecosystem, regardless of the choice of data processing framework, data model, or programming language.

Advantages:

While querying columnar storage, it skips the nonrelevant data very quickly, making faster query execution. As a result aggregation queries consume less time compared to row-oriented databases.

It is able to support advanced [nested data structures](https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/) (<https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/>).

Parquet supports efficient compression options and encoding schemes.

[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\(\).](#)

Pyspark SQL provides support for both reading and writing Parquet files that automatically capture the schema of the original data, It also reduces data storage by 75% on average. Pyspark by default supports Parquet in its library hence we don't need to add any dependency libraries.

Apache Parquet Pyspark Example

Since we don't have the parquet file, let's work with writing parquet from a DataFrame. First, create a Pyspark DataFrame from a list of data using `spark.createDataFrame()` method.

```
data = [("James ", "", "Smith", "36", "M", 30000),
        ("Michael ", "Rose", "", "45", "F", 25000),
        ("Robert ", "", "Wi", "43", "M", 28000),
        ("Maria ", "Anne", "", "31", "F", 22000),
        ("Jen", "Mary", "Brown", "23", "F", 18000)]

columns = ["firstname", "middlename", "lastname", "dob", "gender", "salary"]
df = spark.createDataFrame(data, columns)
```

above example, it creates a DataFrame with columns firstname, middlename, lastname, dob, gender, salary.

Pyspark Write DataFrame to Parquet file format

Now let's create a parquet file from PySpark DataFrame by calling the `parquet()` function of `DataFrameWriter` class. When you write a DataFrame to parquet file, it

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

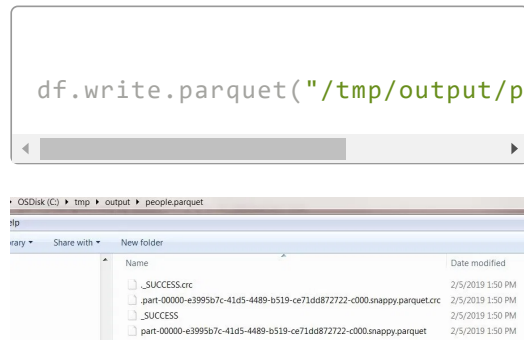
[PySpark – JSON Functions
\(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/\)](https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/)

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/)

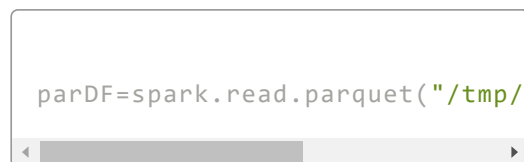
[PySpark – Read & Write Parquet File
\(https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file/\)](https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file/)

automatically preserves column names and their data types. Each part file Pyspark creates has the .parquet file extension. Below is the example,



PySpark Read Parquet file into DataFrame

Pyspark provides a `parquet()` method in `DataFrameReader` class to read the parquet file into dataframe. Below is an example of a reading parquet file to data frame.



Append or Overwrite an existing Parquet file

Using append save mode, you can append a dataframe to an existing parquet file. In case to overwrite use overwrite save mode.




Executing SQL queries DataFrame

Pyspark Sql provides to create temporary views on parquet files for executing sql queries. These views are available until your program exists.

[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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```
parqDF.createOrReplaceTempView(  
parkSQL = spark.sql("select * f
```

Creating a table on rquet file

/ let’s walk through executing SQL
ries on parquet file. In order to
cute sql queries, create a temporary
/ or table directly on the parquet file
ead of creating from DataFrame.

```
spark.sql("CREATE TEMPORARY VIEW  
spark.sql("SELECT * FROM PERSON
```

e, we created a temporary view
SON from “people.parquet” file.
; gives the following results.

-----+-----+-----+
Firstname middlename lastname
-----+-----+-----+
Robert Williams
Maria Anne Jones
Michael Rose
James Smith
Jen Mary Brown
-----+-----+-----+

reate Parquet partition

en we execute a particular query on
PERSON table, it scan’s through all
the rows and returns the results back.
This is similar to the traditional
database query execution. In PySpark,
we can improve query execution in an
optimized way by doing partitions on
the data using `pyspark partitionBy()`
(<https://sparkbyexamples.com/pyspark/pyspark-partitionby-example/>) method.
Following is the example of
partitionBy().

**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/).

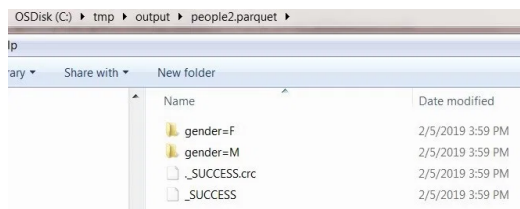
[PySpark – date_format\(\)](#)
(https://sparkbyexamples.com/pyspark/pyspark-date_format-convert-date-to-string-format/).

[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())).

```
df.write.partitionBy("gender", "salary")
```

When you check the people2.parquet file, it has two partitions “gender” followed by “salary” inside.



Retrieving from a partitioned Parquet file

The example below explains of reading partitioned parquet file into DataFrame with gender=M.

```
parDF2=spark.read.parquet("/tmp/people2.parquet", partitionCol="gender", where="gender='M'")  
parDF2.show(truncate=False)
```

Output for the above example is shown below.

```
+-----+-----+-----+-----+  
|firstname|middlename|lastname|salary|  
+-----+-----+-----+-----+  
|Robert   |           |Williams|100000 |  
|Michael  |Rose      |         |100000 |  
|James    |           |Smith   |100000 |  
+-----+-----+-----+-----+
```

Creating a table on Partitioned Parquet file

Here, I am creating a table on partitioned parquet file and executing a query that executes faster than the table without partition, hence improving the performance.

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

```
spark.sql("CREATE TEMPORARY VIEW person")
spark.sql("SELECT * FROM PERSON")
```

Below is the output .

```
+-----+-----+-----+
|firstname|middlename|lastname|
+-----+-----+-----+
|   Maria |      Anne|   Jones|
|      Jen|      Mary|   Brown|
+-----+-----+-----+
```

Complete Example of PySpark read and write Parquet file

```
import pyspark
from pyspark.sql import SparkSession
spark=SparkSession.builder.appName("PySpark").getOrCreate()
data=[("James ","","Smith","36"),
      ("Michael ","Rose","",18),
      ("Robert ","","Williams",45),
      ("Maria ","Anne","",22),
      ("Jen","Mary","Brown",28)]
columns=["firstname","middlename","lastname","age"]
df=spark.createDataFrame(data,columns)
df.write.mode("overwrite").parquet("/tmp/parquet")
parDF1=spark.read.parquet("/tmp/parquet")
parDF1.createOrReplaceTempView("person")
parDF1.printSchema()
parDF1.show(truncate=False)

parkSQL = spark.sql("select * from person")
parkSQL.show(truncate=False)

spark.sql("CREATE TEMPORARY VIEW person")
spark.sql("SELECT * FROM PERSON")

df.write.partitionBy("gender","age").parquet("/tmp/parquet")

parDF2=spark.read.parquet("/tmp/parquet")
parDF2.show(truncate=False)

spark.sql("CREATE TEMPORARY VIEW person")
spark.sql("SELECT * FROM PERSON")
```

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

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

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

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

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

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

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

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

Conclusion:

We have learned how to write a Parquet file from a PySpark DataFrame and reading parquet file to DataFrame and created view/tables to execute SQL queries. Also explained how to do partitions on parquet files to [improve performance](https://sparkbyexamples.com/spark/spark-performance-tuning/)
(https://sparkbyexamples.com/spark/spark-performance-tuning/).

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Raymond

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