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Docker Tutorial: Apache Spark SQL - on Cloudera quickstart

# 19: Docker Tutorial: Apache Spark SQL – on Cloudera quickstart



This extends Docker Tutorial: BigData on Cloudera quickstart via Docker.

#### Step 1: Run the container on a command line.

1	/
	~/projects/docker-hadoop]\$ docker runhostname=q
	privileged=true -t -i -v /Users/arulkumarankumar
3	publish-all=true -p 8888:8888 -p 80:80 -p 7180:7

#### Create a .csv in HDFS

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Step 2: Create a csv file "employee.csv" in the local file system.

1 [root@quickstart /]# touch employee.csv
2 [root@quickstart /]# vi employee.csv

3

1 John, Samuel, IT

2 Peter, Smith, Finance

3 | Sean, Mendis, Marketing

Step 3: Copy this file onto HDFS file system.

1 [root@quickstart /]# hdfs dfs -copyFromLocal employ

## Start spark-shell & create tables

Step 4: Start spark-shell.

1 [root@quickstart /]# spark-shell

Step 5: Create tables via Spark SQL.

1 | scala> sqlContext.sql("CREATE TABLE employee (firs

## Load data

Step 6: Load data from HDFS into the table via Spark SQL.

1 | scala> sqlContext.sql("LOAD DATA INPATH 'hdfs:///u:

### Create a Dataframe

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# Step 7: Create a Dataframe via Spark SQL, and show the results.

```
scala> val employeeDf = sqlContext.sql("SELECT * I
2
   employeeDf: org.apache.spark.sql.DataFrame = [fir:
3
4
  | scala> employeeDf.show()
5
6
   |first_name|surname|department|
7
          John| Samuel|
8
         Peter | Smith | Finance |
9
10
         | Sean| Mendis| Marketing|
11
12
13 | scala>
```

## Filter by name

Step 8: Using the "filter" on a Dataframe. Please note "===" is used as opposed to "==" or "=".

## Save Dataframe as a table

```
1 | scala> employeeDf.write.saveAsTable("employee_2")

18: Docker Tutorial: sqoop export – on Cloudera quickstart

20: Docker Tutorial: Apache Spark (spark-submit) in Java on Cloudera quickstart

20: Docker Tutorial: Apache Spark (spark-submit) in Java on Cloudera quickstart
```

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