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Docker Tutorial: sqoop export – on Cloudera quickstart

## 18: Docker Tutorial: sqoop export – on Cloudera quickstart

 Posted on [June 5, 2019](#)

This extends [Docker Tutorial: BigData on Cloudera quickstart via Docker](#).

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

```
1 ~/projects/docker-hadoop]$ docker run --hostname=q
2 --privileged=true -t -i -v /Users/arulkumarankumar
3 --publish-all=true -p 8888:8888 -p 80:80 -p 7180:71
```

### Connect to MySQL DB

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**Step 2:** Hive & Impala store the metadata in a database like MySQL. The Hive **metastore service** connects to the metastore Database to store metadata. You can connect to the mysql RDBMS as shown below:

```

1 [root@quickstart /]# mysql -uroot -pcloudera
2 mysql> show databases;
3 +-----+
4 | Database          |
5 +-----+
6 | information_schema |
7 | cm                 |
8 | firehose           |
9 | hue                 |
10 | metastore           |
11 | mysql               |
12 | nav                 |
13 | navms               |
14 | oozie                |
15 | retail_db           |
16 | rman                 |
17 | sentry               |
18 +-----+
19 12 rows in set (0.01 sec)
20
21

```

## Create a DB & a table

**Step 3:** Create a new database and switch to that database.

```

1 mysql> create database test;
2 mysql> use test;
3 Database changed
4 mysql>
5

```

**Step 4:** Create a new table.

```

1 mysql> CREATE TABLE employee (firstname varchar(100)
2 surname varchar(100) not null,

```

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```
3 department varchar(100) not null
4 );
5
```

## Create a file on HDFS

**Step 5:** Create a file on the local file system.

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

```
1 John, Samuel, IT
2 Peter, Smith, Finance
3 Sean, Mendis, Marketing
```

**Step 6:** Put to HDFS folder “/user/root/”.

```
1 [root@quickstart /]# hdfs dfs -put employee.csv /user/root/
2
```

List the folder on HDFS.

```
1 [root@quickstart /]# hdfs dfs -ls /user/root/
2 Found 1 items
3 -rw-r--r--  1 root supergroup          63 2019-06-01 10:00 employee.csv
4
```

## Export HDFS file into MySQL table

**Step 7:** Export HDFS data into an empty table in MySQL RDBMS.

```
1 [root@quickstart /]# sqoop export --connect jdbc:mysql://localhost:3306/employee
2 --username root --password cloudera \
3 --table employee \
4 --export-dir /user/root/employee.csv --validate
5
```

# Connect to MySQL

**Step 8:** Connect to MySQL table and check if the data inserted via sqoop export.

```
1 [root@quickstart ~]# mysql -uroot -pcloudera
2
mysql> SELECT * FROM test.employee;
+-----+-----+-----+
| firstname | surname | department |
+-----+-----+-----+
| John      | Samuel  | IT          |
| Peter     | Smith   | Finance     |
| Sean      | Mendis  | Marketing   |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

◀ 17: Docker Tutorial: sqoop import – on Cloudera quickstart

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

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