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Docker Tutorial: Hive (via beeline) on Cloudera quickstart

14: Docker Tutorial: Hive (via beeline) 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 run --hostname=qu
2 --privileged=true -t -i -v /Users/arulkumarankumara
3 --publish-all=true -p 8888:8888 -p 80:80 -p 7180:7:
```

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

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```
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
```

List the file in HDFS:

```
1 [root@quickstart /]# hdfs dfs -ls hdfs:///user/roo
2 Found 1 items
3 -rw-r--r- 1 root supergroup 63 2019-05-3
4 [root@quickstart /]#
```

Step 4: Connect to hive 2 via **beeline**. Beeline is a thin client that also uses the Hive JDBC driver but instead executes queries through HiveServer2, which allows multiple concurrent client connections and supports authentication.

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Connect

```
1 [root@quickstart /]# beeline
2 ....
3 beeline>!connect jdbc:hive2://quickstart.cloudera::
4 ....
```

Create a database

```
1 0: jdbc:hive2://quickstart.cloudera:10000> create (2 .....
```

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Show databases

```
0: jdbc:hive2://quickstart.cloudera:10000> show do
2
3
  INFO : OK
  +------
5
  | database_name |
6
7
  ∣ default
8
  ∣ mydb
9
  | test
10 | +----+
11 3 rows selected (0.358 seconds)
12
```

Create an external table

An external table created over a file in HDFS will not delete the file even if the table is dropped.

```
1 CREATE EXTERNAL TABLE IF NOT EXISTS mydb.tbl_employ
2 (first_name STRING, surname STRING, department STRING)
3 ROW FORMAT DELIMITED
4 FIELDS TERMINATED BY ','
5 STORED AS TEXTFILE
6 LOCATION 'hdfs://quickstart.cloudera:8020/user/room
7
```

List the tables

```
1 0: jdbc:hive2://quickstart.cloudera:10000> use myour control of the control of
```

SELECT *

INSERT INTO

```
1 0: jdbc:hive2://quickstart.cloudera:10000> INSERT :
2 0: jdbc:hive2://quickstart.cloudera:10000> VALUE:
3
```

```
0: jdbc:hive2://quickstart.cloudera:10000> SELECT
2
3
 5
6
  ∣ Rebecca
                     ∣ Smith
7
  ∣ John
                     | Samuel
8
  | Peter
                     ∣ Smith
9
                       Mendis
  | Sean
10
11
```

Exit out of beeline with ctrl+z.

```
1 [root@quickstart /]# hdfs dfs -ls hdfs://quickstar-
2 Found 2 items
3 -rwxrwxrwx 1 scott supergroup 20 2019-05-
4 -rw-r--r-- 1 root supergroup 63 2019-05-
5 [root@quickstart /]#
```

```
1 [root@quickstart /]# hdfs dfs -cat hdfs://quickstar
2 Rebecca, Smith, Sales
3 [root@quickstart /]#
```

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Impala Shell

Why isn't "mydb" created with hive2 not showing even though both Impala & Hive 2 share the same metastore?

You need to run "INVALIDATE METADATA;" to be able to view the databases added via Hive 2.

Output beeline query to csv file

```
1  [root@quickstart /]# beeline -u jdbc:hive2://quicks
2  --outputformat=csv2 -e "SELECT * FROM mydb.tbl_emp'
3

1  [root@quickstart /]# cat output.csv
2  tbl_employee.first_name,tbl_employee.surname,tbl_er
3  John, Samuel, IT
4  Peter, Smith, Finance
5  Sean, Mendis, Marketing
6  [root@quickstart /]#
7
```

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