

Apache Hive

by Sumit Mittal



IMPORTANT

Copyright Infringement and Illegal Content Sharing Notice

All course content designs, video, audio, text, graphics, logos, images are Copyright© and are protected by India and international copyright laws. All rights reserved.

Permission to download the contents (wherever applicable) for the sole purpose of individual reading and preparing yourself to crack the interview only. Any other use of study materials – including reproduction, modification, distribution, republishing, transmission, display – without the prior written permission of Author is strictly prohibited.

Trendytech Insights legal team, along with thousands of our students, actively searches the Internet for copyright infringements. Violators subject to prosecution.

2. Data loading using Load command

You can load data into a hive table using Load statement in two ways:

- 2.1 From LFS (Local File System) to Hive table
- 2.2 From HDFS to Hive table

Create a folder (data) in the root directory:



List the Hive root directory again and check that the data folder has now been created:

```
hadoop fs -ls /
                                 cloudera@quickstart:~
     File Edit View Search Terminal Help
    [cloudera@quickstart ~]$ hadoop fs ~ls /
    Found 11 items
                                                0 2017-10-23 09:15 /benchmarks
    drwxrwxrwx - hdfs
                            supergroup
    drwxr-xr-x

    cloudera supergroup

                                                0 2020-02-13 01:56 /data

    hbase

                                                0 2020-02-12 22:18 /hbase
    drwxr-xr-x
                            supergroup
    drwxr-xr-x

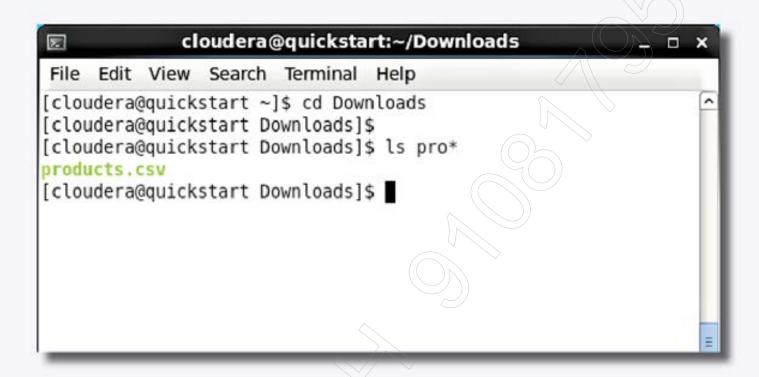
    cloudera supergroup

                                                0 2020-02-01 23:30 /input
               - cloudera supergroup
    drwxr-xr-x
                                                0 2020-02-01 23:47 /outputfolder1
               - cloudera supergroup
                                                0 2020-02-07 21:41 /queryresult
               - solr
    drwxr-xr-x
                            solr
                                               0 2017-10-23 09:18 /solr
                 - cloudera supergroup
                                               0 2020-01-25 02:34 /sparkdir
    drwxr-xr-x
    drwxrwxrwt
                - hdfs
                         supergroup
                                               0 2020-01-20 05:50 /tmp
                 - hdfs
                            supergroup
    drwxr-xr-x
                                               0 2020-01-28 10:19 /user
    drwxr-xr-x

    hdfs

                            supergroup
                                               0 2017-10-23 09:17 /var
    [cloudera@quickstart ~]$
```

Download the *products.csv* file from Google Classroom into Cloudera Downloads folder:



Move the *products.csv* file into the *data* folder of hdfs which we have created:

Check the data folder - the products.csv file must appear:



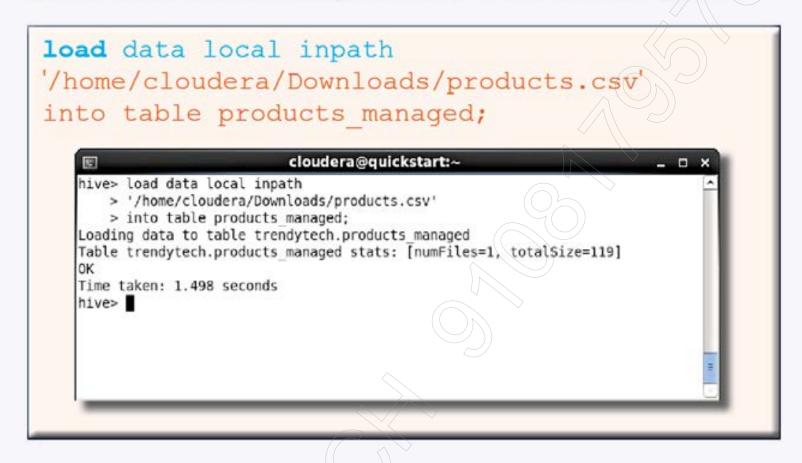
Note: In Managed table, data managed fully by Hive and stored in the warehouse directory.

2.1 Loading data into Managed table from LFS (Local File System)

Create a Managed table:

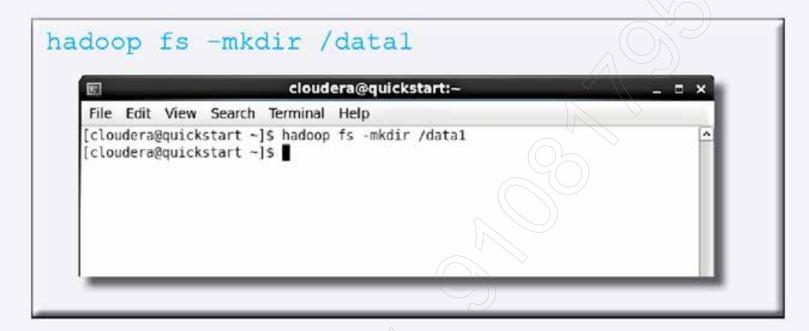
```
create table if not exists products managed (
id string,
title string,
cost float
row format delimited
fields terminated by
stored as textfile;
                      cloudera@quickstart:~
   hive> create table if not exists products managed(
      > id string,
      > title string,
      > cost float
      > row format delimited
      > fields terminated by ','
      > stored as textfile;
   Time taken: 1,624 seconds
   hive>
```

Load data into Managed table from a local path:

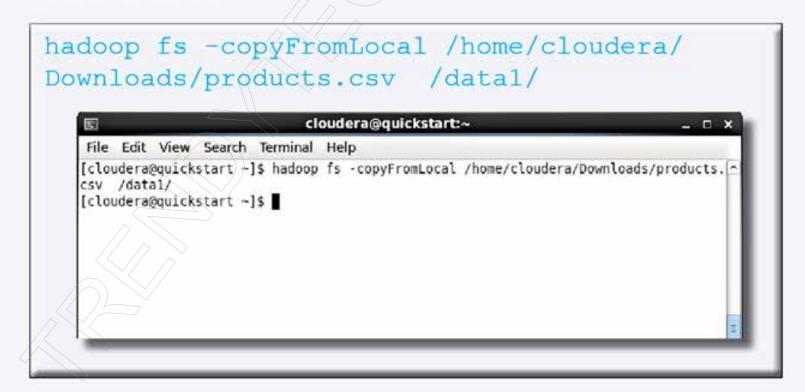


Now, check the output of managed table:

Create one more folder in the root directory of HDFS:



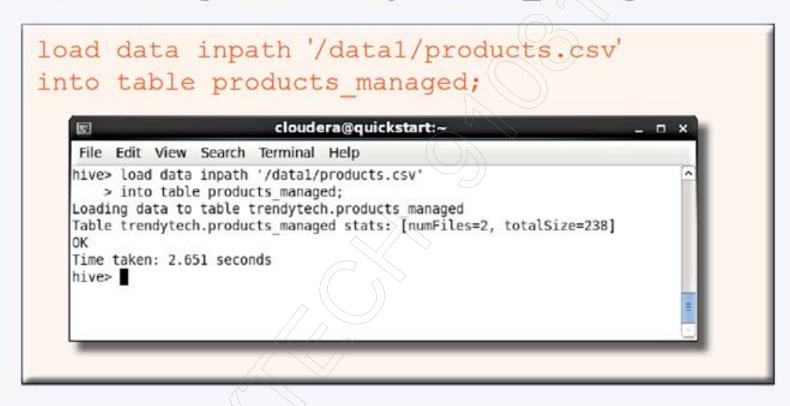
Move again the *products.csv* file into the *data1* folder:



Check the data1 folder - the products.csv file must appear:

2.2 Loading data into Managed table from HDFS

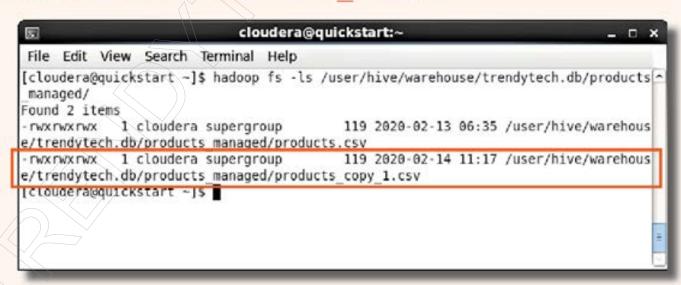
Load data again into the products_managed table:



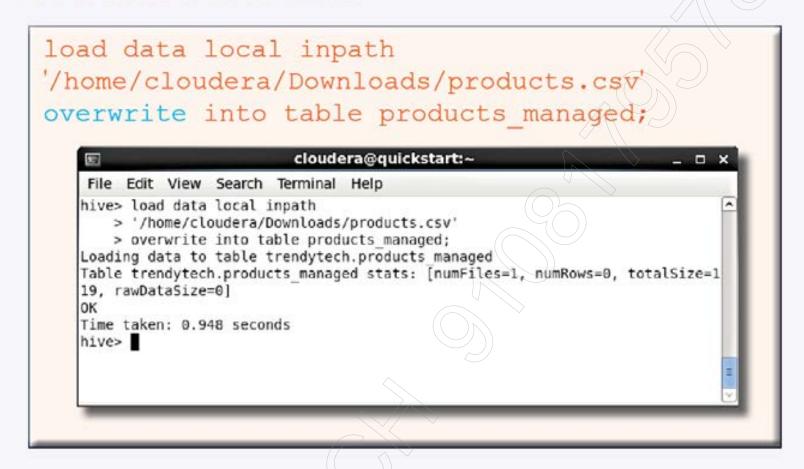
Check the records of products_managed table:

select * from products managed; cloudera@quickstart:~ _ \ \ \ × File Edit View Search Terminal Help hive> select * from products managed; iphone7 iPhone 7 950.0 1st load data Canon 570x camera canon 1000.0 washingmachine samsung Samsung Swift 400.0 tv vu Vu 56 Inch 600.0 iphone7 iPhone 7 950.0 camera canon Canon 570x 1000.0 2nd load data washingmachine samsung Samsung Swift 400.0 tv vu Vu 56 Inch 600.0 Time taken: 0.101 seconds, Fetched: 8 row(s) hive> Note: the data is appended, and both files are present in the warehouse directory. hadoop fs -ls /user/hive/warehouse/

hadoop fs -ls /user/hive/warehouse/ trendytech.db/products managed/



Overwrite a Hive table:



Check again output of products_managed table:

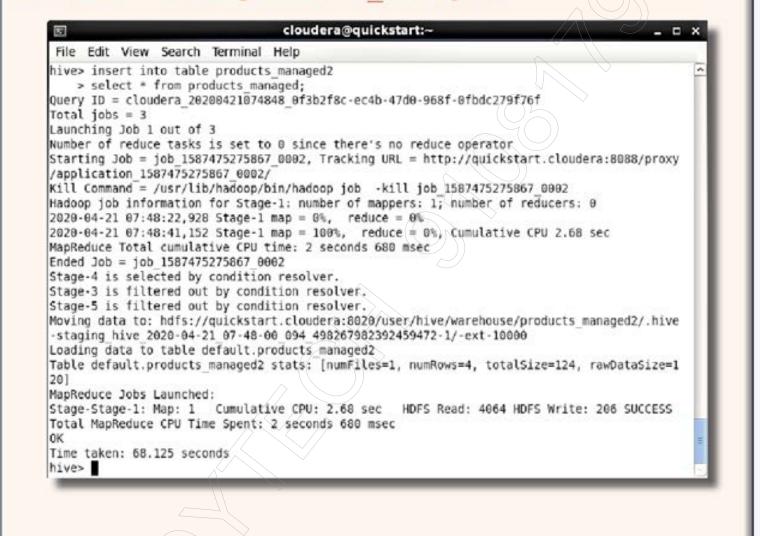
3. Data loading using table to table method

Create one more Managed table:

```
create table if not exists products managed2 (
id string,
title string,
cost float
row format delimited
fields terminated by '
stored as textfile;
                    cloudera@quickstart:~
    File Edit View Search Terminal Help
   hive> create table if not exists products managed2(
      > id string.
      > title string.
      > cost float
      > row format delimited
      > fields terminated by '.'
      > stored as textfile;
   Time taken: 0.166 seconds
   hive>
```

Load data from existing table to the new table:

insert into table products_managed2
select * from products managed;





5 Star Google Rated Big Data Course

LEARN FROM THE EXPERT



9108179578

Call for more details

Follow US

Trainer Mr. Sumit Mittal

LinkedIn https://www.linkedin.com/in/bigdatabysumit/

Website https://trendytech.in/courses/big-data-online-training/

Phone 9108179578

Email trendytech.sumit@gmail.com

Youtube TrendyTech

Twitter @BigdataBySumit

Instagram bigdatabysumit

Facebook https://www.facebook.com/trendytech.in/

