

Apache Hive

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IMPORTANT

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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

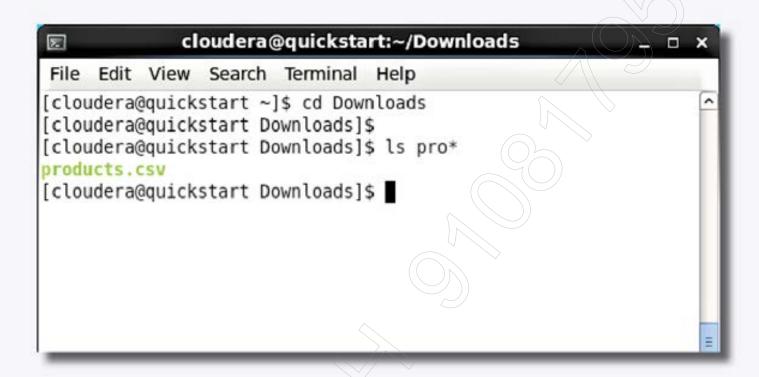
    cloudera supergroup

                                                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

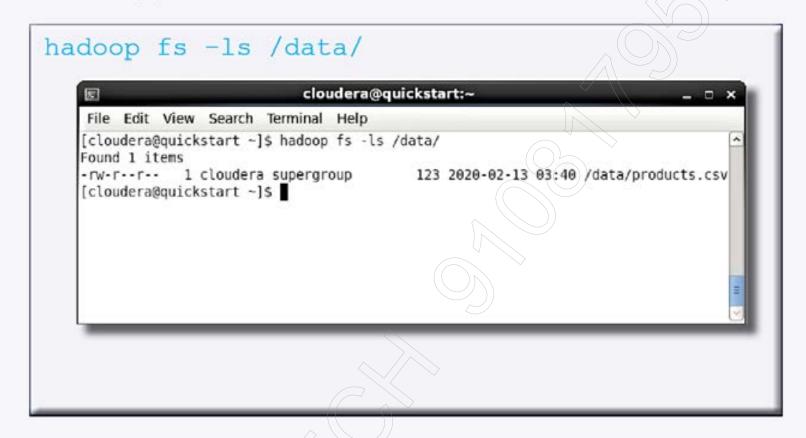
                            supergroup
                                               0 2017-10-23 09:17 /var
    [cloudera@quickstart ~]$
```

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:



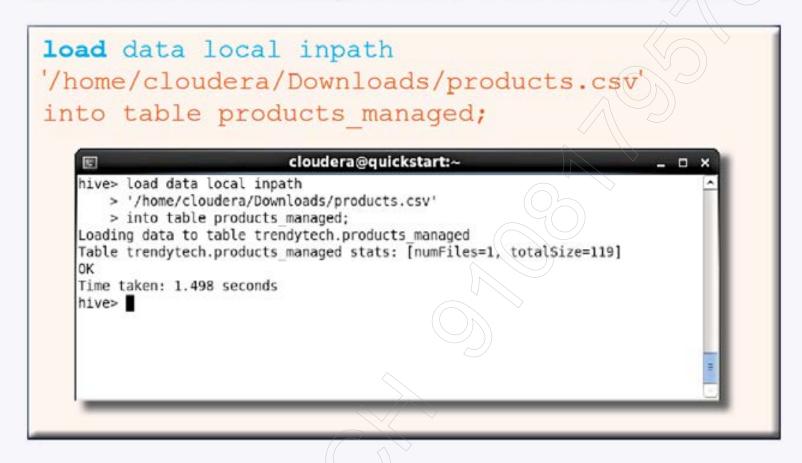
Note: In Managed table, data managed fully by Hive and stored in the warehouse directory.

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

Create a Managed table:

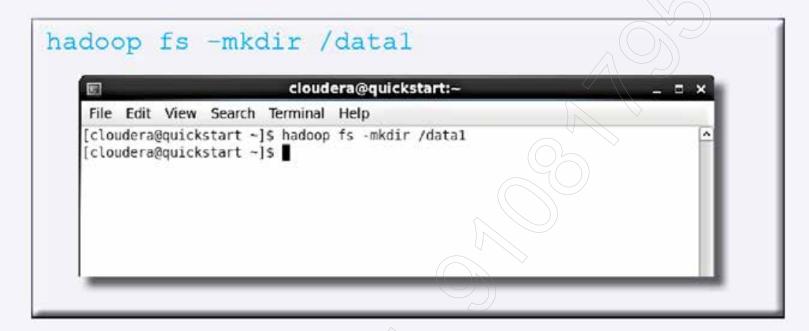
```
create table if not exists products managed (
id string,
title string,
cost float
row format delimited
fields terminated by
stored as textfile;
                      cloudera@quickstart:~
   hive> create table if not exists products managed(
      > id string,
      > title string,
      > cost float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

Load data into Managed table from a local path:

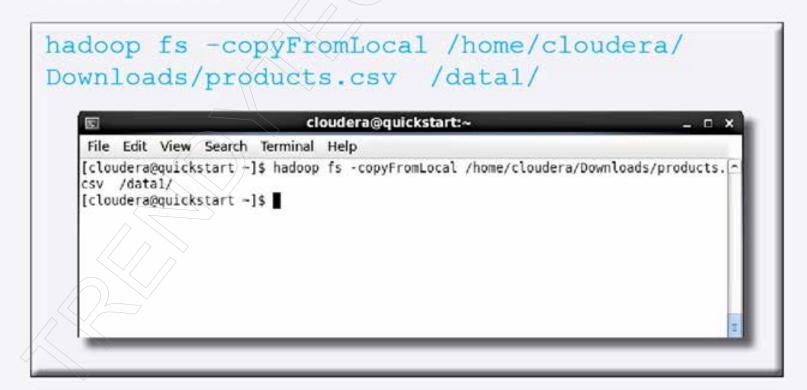


Now, check the output of managed table:

Create one more folder in the root directory of HDFS:



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

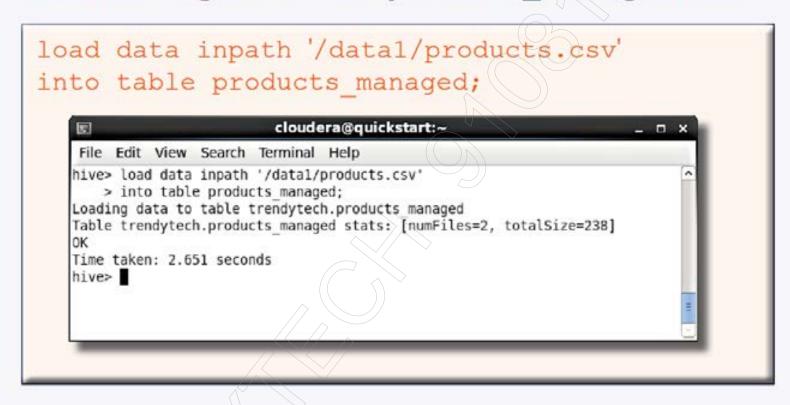


Check the data1 folder - the products.csv file must appear:



2.2 Loading data into Managed table from HDFS

Load data again into the products_managed table:



Check the records of products_managed table:

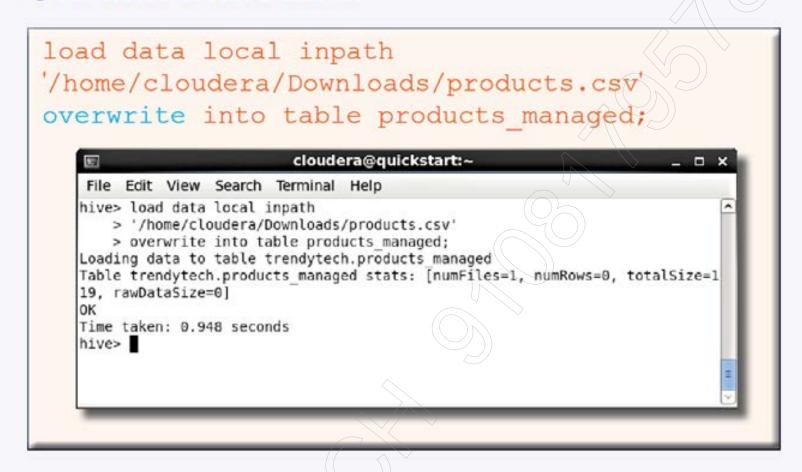
select * from products managed; cloudera@quickstart:~ _ \ \ \ × File Edit View Search Terminal Help hive> select * from products managed; iphone7 iPhone 7 950.0 1st load data Canon 570x camera canon 1000.0 washingmachine samsung Samsung Swift 400.0 tv vu Vu 56 Inch 600.0 iphone7 iPhone 7 950.0 camera 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/ trendytech.db/products managed/

File Edit View Search Terminal Help

[cloudera@quickstart ~]\$ hadoop fs -ls /user/hive/warehouse/trendytech.db/products ^ managed/
Found 2 items
-rwxrwxrwx 1 cloudera supergroup 119 2020-02-13 06:35 /user/hive/warehouse/trendytech.db/products managed/products.csv
-rwxrwxrwx 1 cloudera supergroup 119 2020-02-14 11:17 /user/hive/warehouse/trendytech.db/products_managed/products_copy_1.csv

[cloudera@quickstart ~]\$

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;





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