Large Scale Data Ingestion Using Sqoop

Exporting Data To MySQL From Hive Using Sqoop

edureka!



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Exporting Data To MySQL From Hive Using Sqoop

In this demo, we will learn how to transfer the data from a Hive table to MySQL using Sqoop.

Following are the steps involved:

- 1. Create a MySQL table as per the schema of the hive table to be exported (Hint: use Sqoop eval command).
- 2. Login to MySQL and verify if the table is created or not.
- 3. Write Sqoop command to export the data from Hive table to MySQL table created in Step1.
- 4. Verify if the data is exported to MySQL table or not.

Now let's implement these steps:

1. Create a MySQL table as per the schema of the hive table to be exported (Hint: use Sqoop eval command).

```
Command: sqoop eval --connect jdbc:mysql://dbserver.edu.cloudlab.com/labuser_database \
--query "CREATE TABLE customer_details( \
id int(7), \
firstName varchar(50), \
lastName varchar(50), \
age int(2), \
profession varchar(50))" \
--username edu_labuser \
--password edureka
```

```
[edureka 396201@ip-20-0-41-190 ~]$ sqoop eval --connect jdbc:mysql://dbserver.edu.cloudlab.com/labuser_database \
> --query "CREATE TABLE customer_details( \
> id int(7), \
> firstName varchar(50), \
> lastName varchar(50), \
> age int(2), \
> profession varchar(50))" \
> --password edureka
Warning: /opt/cloudera/parcels/CDH-5.11.1-1.cdh5.11.1.p0.4/bin/../lib/sqoop/../accumulo does not exist! Accumulo imports will fail
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
20/01/28 05:25:09 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6-cdh5.11.1
20/01/28 05:25:09 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
20/01/28 05:25:09 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
20/01/28 05:25:09 INFO tool.EvalSqlTool: 0 row(s) updated.
```

2. Login to MySQL and verify if the table is created or not.

Command: desc labuser_database.customer_details;

```
[edureka_396201@ip-20-0-41-190 ~]$ mysql -u edu_labuser -pedureka -h dbserver.edu.cloudlab.com
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 28107248
Server version: 5.6.38-log MySQL Community Server (GPL)
Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MySQL [(none)]> desc labuser_database.customer_details;
                           | Null | Key | Default | Extra
| Field
             Type
 id
             int(7)
                           | YES
                                          NULL
 firstName
              varchar(50)
                                          NULL
                            YES
 lastName
              varchar(50)
                            YES
                                          NULL
              int(2)
                            YES
                                          NULL
 profession | varchar(50) | YES
                                          NULL
5 rows in set (0.00 sec)
```

3. Write Sqoop command to export the data from Hive table to MySQL table created in Step1.

```
Command: sqoop export --connect jdbc:mysql://dbserver.edu.cloudlab.com/labuser_database \
--username edu_labuser \
--password edureka \
--table customer_details \
--input-fields-terminated-by '\t' \
--export-dir /user/hive/warehouse/custs_details \
-m 1
```

```
[edureka_396201@ip-20-0-41-190 ~]$ sqoop export --connect jdbc:mysql://dbserver.edu.cloudlab.com/labuser_database \
> --username edu_labuser \
> --password edureka \
> --table customer_details \
> --input-fields-terminated-by '\t' \
> --export-dir /user/hive/warehouse/custs_details \
> --m 1
Warning: /opt/cloudera/parcels/CDH-5.11.1-1.cdh5.11.1.p0.4/bin/../lib/sqoop/../accumulo does not exist! Accumulo import s will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
20/01/28 05:56:12 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6-cdh5.11.1
20/01/28 05:56:12 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P ins tead.
```

```
File Input Format Counters
Bytes Read=0
File Output Format Counters
Bytes Written=0
20/01/28 05:57:13 INFO mapreduce.ExportJobBase: Transferred 357 bytes in 57.6794 seconds (6.1894 bytes/sec)
20/01/28 05:57:13 INFO mapreduce.ExportJobBase: Exported 6 records.
```

4. Verify if the data is exported to MySQL table or not.

Command: select * from labuser_database.customer_details;

```
MySQL [(none)]> select * from labuser database.customer details;
                       lastName
 id
            firstName
                                   age
                                           profession
 4000001
            Kristina
                                      55
                                           Pilot
                        Chung
 4000002
            Paige
                        Chen
                                      74
                                           Teacher
 4000003
                                           Firefighter
            Sherri
                        Melton
                                      34
 4000004
            Gretchen
                        Hill
                                      66
                                            Hardware Engineer
  4000005
            Karen
                        Puckett
                                      74
                                           Lawyer
  4000006
            Patrick
                        Song
                                           Teacher
 rows in set (0.00 sec)
```

We have successfully exported the data to MySQL from Hive using Sqoop 😊

