

PROBLEM - 1

Import and Export between MYSQL and HDFS using SQOOP

Note: Cloudera quickstart VM is used to perform import and export between MYSQL and HDFS

In Cloudera quickstart VM all daemons are started at the time when we start VM, so there is no need to start all the required daemons manually, like as in acadgild VM we start hadoop daemons with “start-all.sh” command and mysql service with “sudo service mysqld start” command.

To import the data from MYSQL into HDFS, below steps are followed:

Step 1: Logged into mysql database using below command:

```
[cloudera@quickstart ~]$ mysql -uroot -pcloudera
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 5.1.73 Source distribution

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> █ mysql prompt
```

Step 2: Checked whether database with name “acadDB1” already exists using below command:

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| cm |
| firehose |
| hue |
| metastore |
| mysql |
| nav |
| navms |
| oozie |
| retail_db |
| rman |
| sentry |
+-----+
12 rows in set (0.12 sec)

mysql> █
```

no database with name acadDB1 exists, so in next step database with name acadDB1 is created

Step 3: Created Database “acadDB1” using below command:

```
mysql> create database acadDB1;
Query OK, 1 row affected (0.13 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| acadDB1 |
| cm |
| firehose |
| hue |
| metastore |
| mysql |
| nav |
| navms |
| oozie |
| retail_db |
| rman |
| sentry |
+-----+
13 rows in set (0.00 sec)

mysql>
```

acadDB1 database is created successfully

Step 4: Created table “employee” with following fields inside acadDB1 database:

```
mysql> use acadDB1;
Database changed
mysql> create table employee(
-> id int,
-> name varchar(20),
-> salary int,
-> dept varchar(20));
Query OK, 0 rows affected (0.14 sec)

mysql> show tables;
+-----+
| Tables in acadDB1 |
+-----+
| employee |
+-----+
1 row in set (0.00 sec)

mysql> describe employee;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| id | int(11) | YES | | NULL | |
| name | varchar(20) | YES | | NULL | |
| salary | int(11) | YES | | NULL | |
| dept | varchar(20) | YES | | NULL | |
+-----+
4 rows in set (0.12 sec)

mysql>
```

employee table is created successfully

Step 5: Inserted few records inside employee table:

```
mysql> insert into employee values(101,'Harman',2000,'Sales');
Query OK, 1 row affected (0.01 sec)

mysql> insert into employee values(102,'Kiran',4000,'Production');
Query OK, 1 row affected (0.01 sec)

mysql> insert into employee values(103,'Pradeep',3000,'Technical');
Query OK, 1 row affected (0.00 sec)

mysql> insert into employee values(104,'Rajat',5000,'Management');
Query OK, 1 row affected (0.01 sec)

mysql> insert into employee values(105,'Harish',4000,'Accounts');
Query OK, 1 row affected (0.01 sec)

mysql> select * from employee;
+-----+
| id | name | salary | dept |
+-----+
| 101 | Harman | 2000 | Sales |
| 102 | Kiran | 4000 | Production |
| 103 | Pradeep | 3000 | Technical |
| 104 | Rajat | 5000 | Management |
| 105 | Harish | 4000 | Accounts |
+-----+
5 rows in set (0.00 sec)

mysql>
```

Records are inserted successfully

Step 6: Granted permission to root user to access the database over the network, followed by flushing the privileges (The reload/flush privileges command tells the server to reload the grant tables into memory), and committing all changes to database as follows:

```
mysql> grant all on *.* to 'root'@'localhost' with grant option;
Query OK, 0 rows affected (0.15 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.13 sec)

mysql> commit;
Query OK, 0 rows affected (0.00 sec)

mysql> █
```

Step 7: Checked in hdfs, which directories exist inside /user, because we want data should be imported to /user/my_sqoop/sqoopout1 location, so sqoopout1 should not already exist, else during import error would have been returned if we used already existing directory name:

```
[cloudera@quickstart ~]$ hadoop fs -ls /user
Found 8 items
drwxr-xr-x - cloudera cloudera          0 2017-08-23 08:28 /user/cloudera
drwxr-xr-x - mapred  hadoop             0 2017-07-19 06:29 /user/history
drwxrwxrwx - hive    supergroup          0 2017-07-19 06:31 /user/hive
drwxrwxrwx - hue     supergroup          0 2017-07-19 06:30 /user/hue
drwxrwxrwx - jenkins supergroup          0 2017-07-19 06:29 /user/jenkins
drwxrwxrwx - oozie   supergroup          0 2017-08-23 11:12 /user/oozie
drwxrwxrwx - root    supergroup          0 2017-07-19 06:29 /user/root
drwxr-xr-x - hdfs    supergroup          0 2017-07-19 06:31 /user/spark
[cloudera@quickstart ~]$ █
```

Since, my_sqoop/sqoopout1 does not exist inside /user, therefore these directories will be created automatically during import

Step 8: Using sqoop import command, imported the data from **employee table of **acadDB1** database inside mysql to hdfs at /user/my_sqoop/sqoopout1 location:**

```
[cloudera@quickstart ~]$ sqoop import --connect jdbc:mysql://localhost/acadDB1 -
-username root -P --table employee --target-dir /user/my_sqoop/sqoopout1 -m 1
Warning: /usr/lib/sqoop/./accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
17/08/23 12:14:33 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6-cdh5.12.0
Enter password:
17/08/23 12:15:51 INFO manager.MySQLManager: Preparing to use a MySQL streaming
resultset.
17/08/23 12:15:51 INFO tool.CodeGenTool: Beginning code generation
17/08/23 12:15:53 INFO manager.SqlManager: Executing SQL statement: SELECT t.* F
ROM `employee` AS t LIMIT 1
17/08/23 12:15:53 INFO manager.SqlManager: Executing SQL statement: SELECT t.* F
ROM `employee` AS t LIMIT 1
17/08/23 12:15:53 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /usr/lib/ha
doop-mapreduce
```

```

Job Counters
  Launched map tasks=1
  Other local map tasks=1
  Total time spent by all maps in occupied slots (ms)=21075
  Total time spent by all reduces in occupied slots (ms)=0
  Total time spent by all map tasks (ms)=21075
  Total vcore-milliseconds taken by all map tasks=21075
  Total megabyte-milliseconds taken by all map tasks=21580800
Map-Reduce Framework
  Map input records=5
  Map output records=5
  Input split bytes=87
  Spilled Records=0
  Failed Shuffles=0
  Merged Map outputs=0
  GC time elapsed (ms)=293
  CPU time spent (ms)=2840
  Physical memory (bytes) snapshot=129871872
  Virtual memory (bytes) snapshot=1510166528
  Total committed heap usage (bytes)=60882944
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=126
17/08/23 12:17:18 INFO mapreduce.ImportJobBase: Transferred 126 bytes in 68.8346
seconds (1.8305 bytes/sec)
17/08/23 12:17:18 INFO mapreduce.ImportJobBase: Retrieved 5 records.
[cloudera@quickstart ~]$

```

Step 9: Inside hdfs, checked using below commands whether data imported successfully or not:

```

[cloudera@quickstart ~]$ hadoop fs -ls /user
Found 9 items
drwxr-xr-x - cloudera cloudera 0 2017-08-23 08:28 /user/cloudera
drwxr-xr-x - mapred hadoop 0 2017-07-19 06:29 /user/history
drwxrwxrwx - hive supergroup 0 2017-07-19 06:31 /user/hive
drwxrwxrwx - hue supergroup 0 2017-07-19 06:30 /user/hue
drwxrwxrwx - jenkins supergroup 0 2017-07-19 06:29 /user/jenkins
drwxr-xr-x - cloudera supergroup 0 2017-08-23 12:16 /user/my_sqoop
drwxrwxrwx - oozie supergroup 0 2017-08-23 11:12 /user/oozie
drwxrwxrwx - root supergroup 0 2017-07-19 06:29 /user/root
drwxr-xr-x - hdfs supergroup 0 2017-07-19 06:31 /user/spark
[cloudera@quickstart ~]$ hadoop fs -ls /user/my_sqoop
Found 1 items
drwxr-xr-x - cloudera supergroup 0 2017-08-23 12:17 /user/my_sqoop/sqoopout1
[cloudera@quickstart ~]$ hadoop fs -ls /user/my_sqoop/sqoopout1
Found 2 items
-rw-r--r-- 1 cloudera supergroup 0 2017-08-23 12:17 /user/my_sqoop/sqoopout1/_SUCCESS
-rw-r--r-- 1 cloudera supergroup 126 2017-08-23 12:17 /user/my_sqoop/sqoopout1/part-m-00000
[cloudera@quickstart ~]$ hadoop fs -cat /user/my_sqoop/sqoopout1/part-m-00000
101,Harman,2000,Sales
102,Kiran,4000,Production
103,Pradeep,3000,Technical
104,Rajat,5000,Management
105,Harish,4000,Accounts
[cloudera@quickstart ~]$

```

Data has been imported successfully

To export the data from HDFS to MYSQL, below steps are followed:

Step 1: To export the data from **hdfs** to **employee** table [created during import statement], created **employee.txt** file [using `gedit employee.txt` command] in local file system first with data matching the schema of employee table:

```
[cloudera@quickstart ~]$ cat /home/cloudera/mydata/sqoop/employee.txt
106,Ajay,2500,Sales
107,Manav,4000,Production
108,Harpreet,5000,Management
109,Raman,3000,Technical
110,Aman,4500,Production
[cloudera@quickstart ~]$
```

Step 2: Put **employee.txt** file from local FS to **hdfs** at following location:

```
[cloudera@quickstart ~]$ hadoop fs -put /home/cloudera/mydata/sqoop/employee.txt
/user/my_sqoop/
[cloudera@quickstart ~]$ hadoop fs -ls /user/my_sqoop/
Found 2 items
-rw-r--r-- 1 cloudera supergroup      125 2017-08-23 12:26 /user/my_sqoop/em
employee.txt
drwxr-xr-x - cloudera supergroup      0 2017-08-23 12:17 /user/my_sqoop/sq
oopout1
[cloudera@quickstart ~]$ hadoop fs -cat /user/my_sqoop/employee.txt
106,Ajay,2500,Sales
107,Manav,4000,Production
108,Harpreet,5000,Management
109,Raman,3000,Technical
110,Aman,4500,Production
[cloudera@quickstart ~]$
```

**data is placed successfully
inside hdfs from local FS**

Step 3: Using export command, exported data from **hdfs** to **mysql**:

```
[cloudera@quickstart ~]$ sqoop export --connect jdbc:mysql://localhost/acadDB1 -
-username root -P --table employee --export-dir /user/my_sqoop/employee.txt --in
put-fields-terminated-by ',' -m 1
Warning: /usr/lib/sqoop/./accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
17/08/23 12:29:15 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6-cdh5.12.0
Enter password:
17/08/23 12:29:22 INFO manager.MySQLManager: Preparing to use a MySQL streaming
resultset.
17/08/23 12:29:22 INFO tool.CodeGenTool: Beginning code generation
17/08/23 12:29:23 INFO manager.SqlManager: Executing SQL statement: SELECT t.* F
ROM `employee` AS t LIMIT 1
17/08/23 12:29:24 INFO manager.SqlManager: Executing SQL statement: SELECT t.* F
ROM `employee` AS t LIMIT 1
17/08/23 12:29:24 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /usr/lib/ha
doop-mapreduce
Note: /tmp/sqoop-cloudera/compile/9a2b8e11109268b8a86dad578c3d2630/employee.java
uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
17/08/23 12:29:34 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-clou
dera/compile/9a2b8e11109268b8a86dad578c3d2630/employee.jar
17/08/23 12:29:34 INFO mapreduce.ExportJobBase: Beginning export of employee
17/08/23 12:29:34 INFO Configuration.deprecation: mapred.job.tracker is deprecate
d. Instead, use mapreduce.jobtracker.address
17/08/23 12:29:36 INFO Configuration.deprecation: mapred.jar is deprecated. Inst
ead, use mapreduce.job.jar
17/08/23 12:29:42 INFO Configuration.deprecation: mapred.reduce.tasks.speculativ
e.execution is deprecated. Instead, use mapreduce.reduce.speculative
17/08/23 12:29:42 INFO Configuration.deprecation: mapred.map.tasks.speculative.e
xecution is deprecated. Instead, use mapreduce.map.speculative
17/08/23 12:29:42 INFO Configuration.deprecation: mapred.map.tasks is deprecated
```

```

Job Counters
  Launched map tasks=1
  Data-local map tasks=1
  Total time spent by all maps in occupied slots (ms)=19309
  Total time spent by all reduces in occupied slots (ms)=0
  Total time spent by all map tasks (ms)=19309
  Total vcore-milliseconds taken by all map tasks=19309
  Total megabyte-milliseconds taken by all map tasks=19772416
Map-Reduce Framework
  Map input records=5
  Map output records=5
  Input split bytes=139
  Spilled Records=0
  Failed Shuffles=0
  Merged Map outputs=0
  GC time elapsed (ms)=449
  CPU time spent (ms)=2060
  Physical memory (bytes) snapshot=129077248
  Virtual memory (bytes) snapshot=1508073472
  Total committed heap usage (bytes)=60882944
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=0
17/08/23 12:51:47 INFO mapreduce.ExportJobBase: Transferred 267 bytes in 57.1304
seconds (4.6735 bytes/sec)
17/08/23 12:51:47 INFO mapreduce.ExportJobBase: Exported 5 records.
[cloudera@quickstart ~]$

```

Step 4: Above screenshots show that export command ran successfully, so using select statement checked whether data in employee table inside mysql placed properly or not:

```

mysql> select * from employee;
+----+-----+-----+-----+
| id  | name  | salary | dept  |
+----+-----+-----+-----+
| 101 | Harman | 2000   | Sales |
| 102 | Kiran  | 4000   | Production |
| 103 | Pradeep | 3000   | Technical |
| 104 | Rajat  | 5000   | Management |
| 105 | Harish  | 4000   | Accounts |
| 106 | Ajay   | 2500   | Sales |
| 107 | Manav  | 4000   | Production |
| 108 | Harpreet | 5000   | Management |
| 109 | Raman  | 3000   | Technical |
| 110 | Aman   | 4500   | Production |
+----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql>

```

From above screenshot we can see that last 5 rows are placed from hdfs, earlier there were only first 5 rows inside employee table.

PROBLEM - 2

Import and Export between MYSQL and HIVE using SGOOP

NOTE: Here, we need to import and export only selected columns from mysql table to hive table and vice-versa using sqoop.

Employee table created in Problem-1 is considered to import the data from mysql to hive, and empid table is created in mysql to export only selected data from hive to mysql and it's assumed that grant and flush commands are executed in mysql.

To import the data from MYSQL into hive, below steps are followed:

Step 1: Checked whether employee table already exists inside default database in hive or not

```
hive> show databases;
OK
default
Time taken: 0.05 seconds, Fetched: 1 row(s)
hive> use default;
OK
Time taken: 0.12 seconds
hive> show tables;
OK
hive_oozie
Time taken: 0.055 seconds, Fetched: 1 row(s)
hive> 
```

no table with name "employee" exists inside default database

Step 2: As employee table does not already exist inside hive, so using sqoop import command, imported selected data from mysql table to hive table [table will get created automatically with same name as in mysql]

```
[cloudera@quickstart ~]$ sqoop import --connect jdbc:mysql://localhost/acadDB1
--username root -P --table employee --columns id,name,salary --hive-import --fi
elds-terminated-by ',' -m 1
Warning: /usr/lib/sqoop/./accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
17/08/24 03:49:21 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6-cdh5.12.0
Enter password:
17/08/24 03:49:27 INFO manager.MySQLManager: Preparing to use a MySQL streaming
resultset.
17/08/24 03:49:28 INFO tool.CodeGenTool: Beginning code generation
17/08/24 03:49:30 INFO manager.SqlManager: Executing SQL statement: SELECT t.*
FROM `employee` AS t LIMIT 1
17/08/24 03:49:30 INFO manager.SqlManager: Executing SQL statement: SELECT t.*
FROM `employee` AS t LIMIT 1
17/08/24 03:49:30 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /usr/lib/h
adoop-mapreduce
Note: /tmp/sqoop-cloudera/compile/317ddfb3641b5c0bd5bd9992bc7c2b21/employee.java uses or
overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
17/08/24 03:49:41 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-cloudera/com
pile/317ddfb3641b5c0bd5bd9992bc7c2b21/employee.jar
17/08/24 03:49:41 WARN manager.MySQLManager: It looks like you are importing from mysql.
17/08/24 03:49:41 WARN manager.MySQLManager: This transfer can be faster! Use the --dire
ct
17/08/24 03:49:41 WARN manager.MySQLManager: option to exercise a MySQL-specific fast pa
th.
17/08/24 03:49:41 INFO manager.MySQLManager: Getting row DATETIME behavior to convert to
```



```

Map-Reduce Framework
  Map input records=10
  Map output records=10
  Input split bytes=87
  Spilled Records=0
  Failed Shuffles=0
  Merged Map outputs=0
  GC time elapsed (ms)=2309
  CPU time spent (ms)=3080
  Physical memory (bytes) snapshot=109101056
  Virtual memory (bytes) snapshot=1510125568
  Total committed heap usage (bytes)=60882944
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=155
17/08/24 03:53:01 INFO mapreduce.ImportJobBase: Transferred 155 bytes in 192.9478 seconds (0.8033 bytes/sec)
17/08/24 03:53:01 INFO mapreduce.ImportJobBase: Retrieved 10 records.
17/08/24 03:53:01 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `employee` AS t LIMIT 1
17/08/24 03:53:01 INFO hive.HiveImport: Loading uploaded data into Hive

Logging initialized using configuration in jar:file:/usr/lib/hive/lib/hive-common-1.1.0-cdh5.12.0.jar!/hive-log4j.properties
OK
Time taken: 14.045 seconds
Loading data to table default.employee
Table default.employee stats: [numFiles=1, totalSize=155]
OK
Time taken: 1.997 seconds
[cloudera@quickstart ~]$

```

Step 3: Above screenshot shows that import statement ran successfully, without any error, so checked inside hive whether table with three columns i.e. id, name, salary along with data got created or not inside default database:

```

hive> use default;
OK
Time taken: 0.042 seconds
hive> show tables;
OK
employee
hive_oozie
Time taken: 0.161 seconds, Fetched: 3 row(s)
hive> select * from employee;
OK
101    Harman    2000
102    Kiran     4000
103    Pradeep   3000
104    Rajat     5000
105    Harish    4000
106    Ajay      2500
107    Manav     4000
108    Harpreet   5000
109    Raman     3000
110    Aman      4500
Time taken: 0.388 seconds, Fetched: 10 row(s)

```

selected records imported successfully inside hive table

```

hive> dfs -ls /user/hive/warehouse;
Found 2 items
drwxrwxrwx - cloudera supergroup 0 2017-08-24 03:53 /user/hive/warehouse/employee
drwxrwxrwx - oozie supergroup 0 2017-08-23 11:15 /user/hive/warehouse/oozie
hive> dfs -ls /user/hive/warehouse/employee;
Found 1 items
-rw-r--r-- 1 cloudera cloudera 155 2017-08-24 03:52 /user/hive/warehouse/employee/part-m-000000
hive> dfs -cat /user/hive/warehouse/employee/part-m-000000;
101,Harman,2000
102,Kiran,4000
103,Pradeep,3000
104,Rajat,5000
105,Harish,4000
106,Ajay,2500
107,Manav,4000
108,Harpreet,5000
109,Raman,3000
110,Aman,4500
hive>

```

selected records imported successfully inside hive table directory

To export the data from HIVE to MYSQL, below steps are followed:

Step 1: Created “empid” table in acadGB1 database in mysql with one column i.e. id (type int), so that only id field values should get exported from hive table to mysql table [NOTE: we need to create table in mysql with the required number of fields, else export command will fail if table will not already exist in mysql]:

```
mysql> use acadDB1;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_acadDB1 |
+-----+
| employee          |
+-----+
1 row in set (0.00 sec)

mysql> create table empid(
-> id int);
Query OK, 0 rows affected (0.13 sec)

mysql> describe empid;
+-----+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int(11) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> grant all on *.* to 'root'@'localhost' with grant option;
Query OK, 0 rows affected (0.17 sec)

mysql> flush privileges;
Query OK, 0 rows affected (0.04 sec)

mysql> commit;
Query OK, 0 rows affected (0.00 sec)
```

Step 2: To export only selected column i.e. id from employee table in hive to mysql empid table, used below command:

```
[cloudera@quickstart ~]$ sqoop export --connect jdbc:mysql://localhost/acadDB1 --username root -P --table empid --columns id --export-dir /user/hive/warehouse/employee/part-m-0000 --fields-terminated-by ',' -m 1
Warning: /usr/lib/sqoop/./accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
17/08/24 03:56:22 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6-cdh5.12.0
Enter password:
17/08/24 03:56:27 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
17/08/24 03:56:27 INFO tool.CodeGenTool: Beginning code generation
17/08/24 03:56:30 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `empid` AS t LIMIT 1
17/08/24 03:56:30 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `empid` AS t LIMIT 1
17/08/24 03:56:30 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /usr/lib/hadoop-mapreduce
```

```

Job Counters
  Launched map tasks=1
  Data-local map tasks=1
  Total time spent by all maps in occupied slots (ms)=40632
  Total time spent by all reduces in occupied slots (ms)=0
  Total time spent by all map tasks (ms)=40632
  Total vcore-milliseconds taken by all map tasks=40632
  Total megabyte-milliseconds taken by all map tasks=41607168
Map-Reduce Framework
  Map input records=10
  Map output records=10
  Input split bytes=154
  Spilled Records=0
  Failed Shuffles=0
  Merged Map outputs=0
  GC time elapsed (ms)=564
  CPU time spent (ms)=2210
  Physical memory (bytes) snapshot=108822528
  Virtual memory (bytes) snapshot=1508204544
  Total committed heap usage (bytes)=60882944
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=0
17/08/24 03:58:22 INFO mapreduce.ExportJobBase: Transferred 312 bytes in 92.7731 seconds
(3.363 bytes/sec)
17/08/24 03:58:23 INFO mapreduce.ExportJobBase: Exported 10 records.
[cloudera@quickstart ~]$

```

Step 3: Checked in mysql, whether data got successfully exported to mysql table or not:

```

mysql> select * from empid;
Empty set (0.00 sec)

mysql> select * from empid;
+----+
| id |
+----+
| 101 |
| 102 |
| 103 |
| 104 |
| 105 |
| 106 |
| 107 |
| 108 |
| 109 |
| 110 |
+----+
10 rows in set (0.00 sec)

mysql>

```

empty set before
running export
command

after running sqoop export
command, data got
successfully exported to
mysql empid table