BDA Exp2: Sqoop

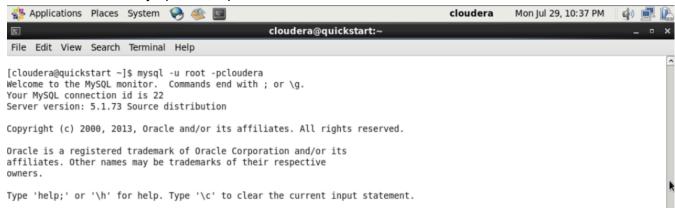
Aditya Tawade, BE4, 60

Part 1: Using sqoop to import data from mysql to hadoop

Step1: Open terminal in cloudera

Step2: Login to mysql (username is "root" and password is "cloudera").

Command: mysql -u root -pcloudera



Step 3:

- (a) Create a database(db) and set it as current database.
- (b) Create a table called employees and fill it up with data.
- (c) Exit mysql.

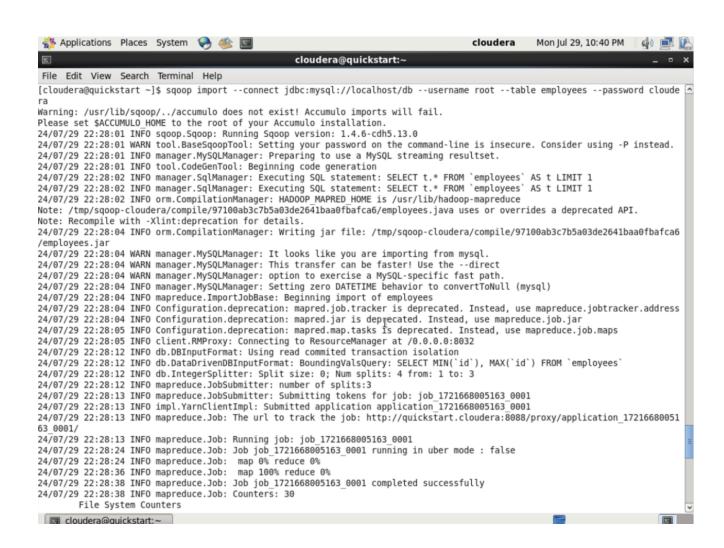
Commands:

```
mysgl> USE db:
Database changed
mysql> CREATE TABLE employees();
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for
the right syntax to use near ')' at line 1
mysql> CREATE TABLE employees(
    -> id INT NOT NULL PRIMARY KEY,
    -> name VARCHAR(20),
    -> deg VARCHAR(20),
    -> salary INT,
    -> dept VARCHAR(10));
Query OK, 0 rows affected (0.02 sec)
mysql> INSERT INTO employees VALUES (1,'Aditya Tawade', 'CEO', 1000000, 'SD'), (2, 'Suraj Jagtap', 'Janitor', 2,'SD'),(3, 'Yu g Solanki', 'Senior Developer', 100000,'SD');
Query OK, 3 rows affected (0.00 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> EXIT;
Bve
```

Step 4: Use sqoop to import the mysql table to hadoop **Commands:**

sqoop import \

- -connect jdbc:mysql://localhost/db \
- -username root \
- -table employees \
- -password cloudera



```
Step 5: Check whether the table is successfully imported to hadoop.
```

Commands:

```
hadoop fs -ls /user/cloudera/employees
hadoop fs -ls /user/cloudera/employees/part-m-00000 (might be different)
hadoop fs -ls /user/cloudera/employees/part-m-00001 (might be different)
hadoop fs -ls /user/cloudera/employees/part-m-00002 (might be different)
```

Part 2: Using sqoop to export table from hadoop to mysql.

Now the data is present in hadoop, lets use scoop to export table from hadoop to mysql.

```
Step 0: Drop the table we created in Part 1 from mysql.
```

```
Commands:
```

```
mysql -u root -pcloudera
USE db;
DROP TABLE employees;
```

Step 1: Create table employees.

Commands:

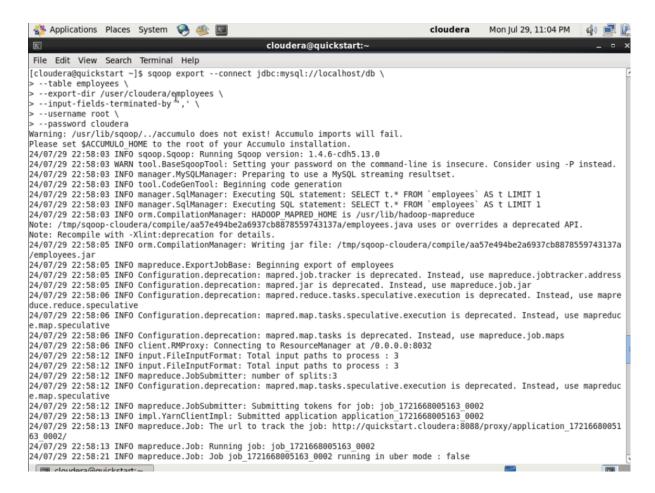
```
CREATE TABLE employees(
id INT NOT NULL PRIMARY KEY;
name VARCHAR(20),
deg VARCHAR(20),
salary INT,
dept VARCHAR(10)
);
EXIT;
```

```
mysql> USE db;
Database changed
mysql> CREATE TABLE employees(
    -> id INT NOT NULL PRIMARY KEY,
    -> name VARCHAR(20),
    -> deg VARCHAR(20),
    -> salary INT,
    -> dept VARCHAR(10));
Query OK, 0 rows affected (0.03 sec)
```

Step 2: Use sqoop to export table from hadoop to mysql.

Commands:

- sqoop export \
- -connect jdbc:mysql://localhost/db \
- -username root \
- -password cloudera \
- -table employees \
- -export dir /user/cloudera/employees \
- -input-fields-terminated-by ','



Step 3: Login to mysql and check if the table is exported successfully. Commands:

Mysql -u root -pcloudera USE db; SELECT * FROM employees;

