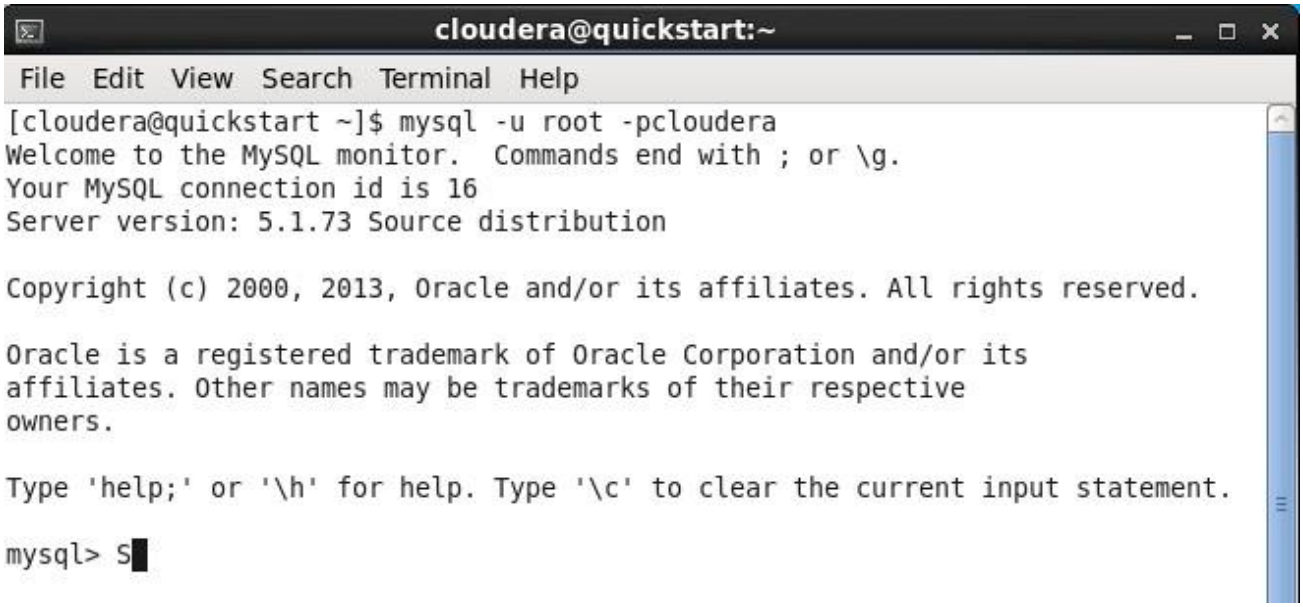
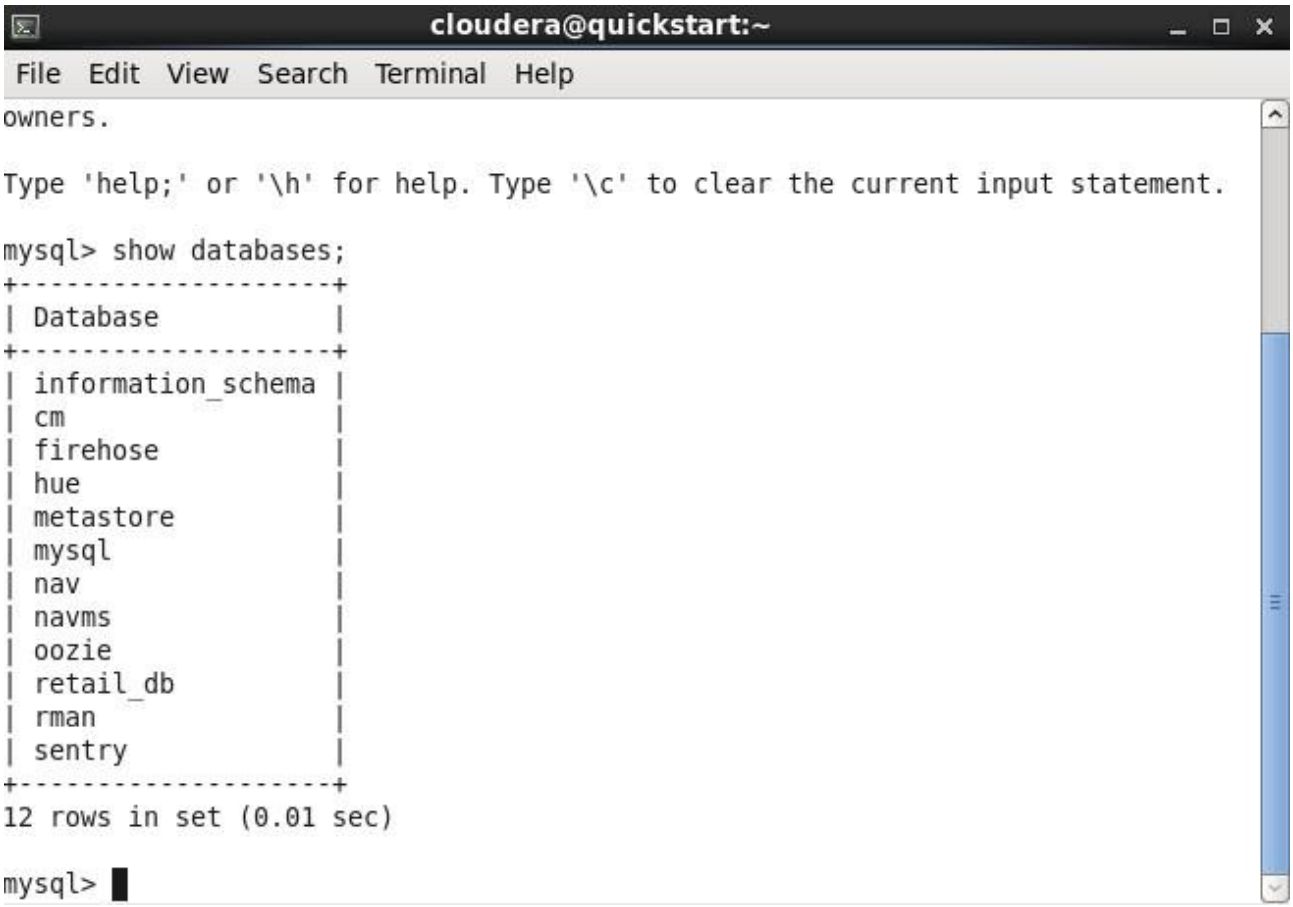
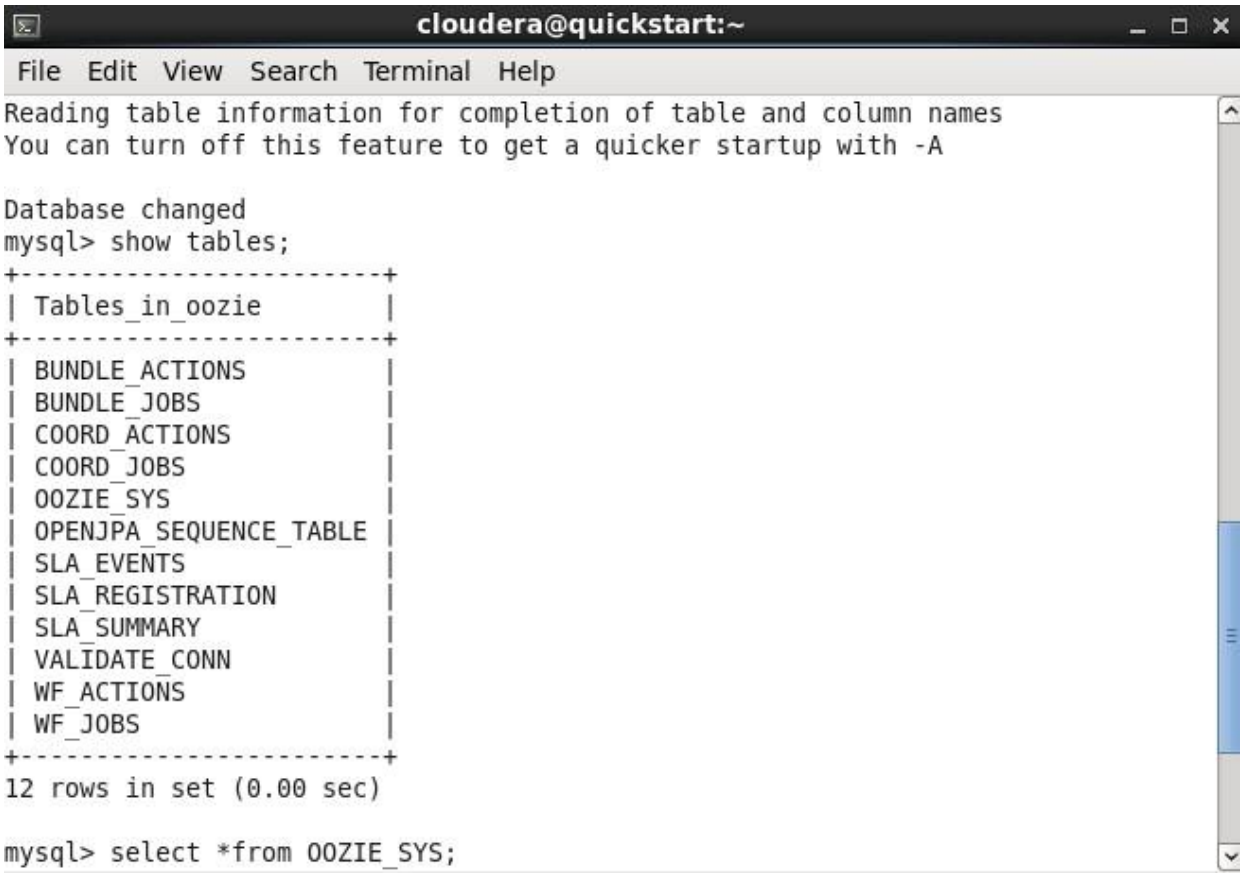
EXPERIMENT NO. 2

$mysql -u root -pcloudera

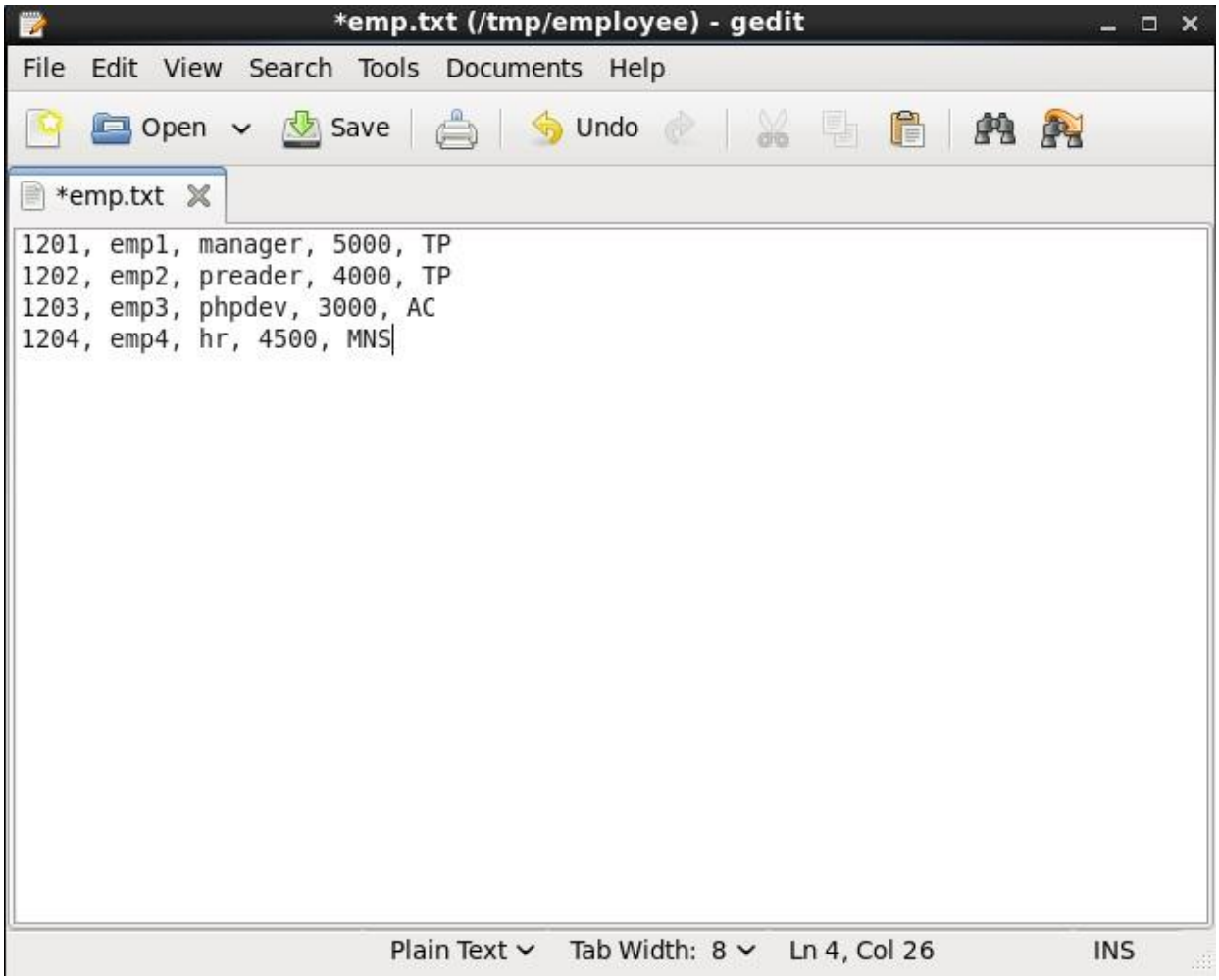



cloudera@quickstart:~
File Edit View Search Terminal Help
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show databases;
+--------------------+
| Database |
+--------------------+
| information_schema |
| cm |
| firehose |
| hue |
| metastore |
| mysql |
| nav |
| navms |
| oozie |
| retail_db |
| rman |
| sentry |
+--------------------+
12 rows in set (0.01 sec)
mysql>




```
mysql> select *from OOZIE_SYS;
+---------------+-----------------+
| name          | data            |
+---------------+-----------------+
| db.version    | 3               |
| oozie.version | 4.1.0-cdh5.13.0 |
+---------------+-----------------+
2 rows in set (0.00 sec)

mysql>
```




```
mysql> create database employees;
Query OK, 1 row affected (0.01 sec)

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

mysql> use employees;
Database changed
mysql> create table employee(
    -> 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> desc employee
    -> ;
+--------+-------------+------+-----+---------+-------+
| Field  | Type        | Null | Key | Default | Extra |
+--------+-------------+------+-----+---------+-------+
| id     | int(11)     | NO   | PRI | NULL    |       |
| name   | varchar(20) | YES  |     | NULL    |       |
| deg    | varchar(20) | YES  |     | NULL    |       |
| salary | int(11)     | YES  |     | NULL    |       |
| dept   | varchar(10) | YES  |     | NULL    |       |
+--------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

```
[cloudera@quickstart ~]$ sqoop import --connect jdbc:mysql://localhost/retail_db --password cloudera --username root --table orders --m 1 --target-dir /user/cloudera/anshi
Warning: /usr/lib/sqoop/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
24/07/29 23:13:22 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6-cdh5.13.0
24/07/29 23:13:22 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
24/07/29 23:13:23 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
24/07/29 23:13:23 INFO tool.CodeGenTool: Beginning code generation
24/07/29 23:13:23 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `orders` AS t LIMIT 1
24/07/29 23:13:23 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `orders` AS t LIMIT 1
24/07/29 23:13:23 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /usr/lib/hadoop-mapreduce
Note: /tmp/sqoop-cloudera/compile/22cd4bd560daff3338da0f157b0365fe/orders.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
24/07/29 23:13:25 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-cloudera/compile/22cd4bd560daff3338da0f157b0365fe/orders.jar
24/07/29 23:13:25 WARN manager.MySQLManager: It looks like you are importing from mysql.
24/07/29 23:13:25 WARN manager.MySQLManager: This transfer can be faster! Use the --direct
24/07/29 23:13:25 WARN manager.MySQLManager: option to exercise a MySQL-specific fast path.
24/07/29 23:13:25 INFO manager.MySQLManager: Setting zero DATETIME behavior to convertToNull (mysql)
24/07/29 23:13:25 INFO mapreduce.ImportJobBase: Beginning import of orders
24/07/29 23:13:25 INFO Configuration.deprecation: mapred.job.tracker is deprecated. Instead, use mapreduce.jobtracker.address
24/07/29 23:13:25 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar
24/07/29 23:13:25 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
24/07/29 23:13:26 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
24/07/29 23:13:26 WARN hdfs.DFSClient: Caught exception
java.lang.InterruptedException
        at java.lang.Object.wait(Native Method)
        at java.lang.Thread.join(Thread.java:1281)
        at java.lang.Thread.join(Thread.java:1355)
        at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.closeResponder(DFSOutputStream.java:967)
        at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.endBlock(DFSOutputStream.java:705)
        at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.run(DFSOutputStream.java:894)
24/07/29 23:13:26 WARN hdfs.DFSClient: Caught exception
java.lang.InterruptedException
        at java.lang.Object.wait(Native Method)
        at java.lang.Thread.join(Thread.java:1281)
        at java.lang.Thread.join(Thread.java:1355)
        at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.closeResponder(DFSOutputStream.java:967)
        at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.endBlock(DFSOutputStream.java:705)
        at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.run(DFSOutputStream.java:894)
24/07/29 23:13:26 WARN hdfs.DFSClient: Caught exception
java.lang.InterruptedException
        at java.lang.Object.wait(Native Method)
        at java.lang.Thread.join(Thread.java:1281)
        at java.lang.Thread.join(Thread.java:1355)
        at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.closeResponder(DFSOutputStream.java:967)
        at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.closeInternal(DFSOutputStream.java:935)
        at org.apache.hadoop.hdfs.DFSOutputStream$DataStreamer.run(DFSOutputStream.java:931)
```

Importing tables in hadoop using sqoop

```
24/07/22 23:23:59 INFO mapreduce.Job: Job job_1721711879175_0002 completed successfully
24/07/22 23:23:59 INFO mapreduce.Job: Counters: 30
        File System Counters
                FILE: Number of bytes read=0
                FILE: Number of bytes written=684668
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=469
                HDFS: Number of bytes written=2999944
                HDFS: Number of read operations=16
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=8
        Job Counters
                Launched map tasks=4
                Other local map tasks=4
                Total time spent by all maps in occupied slots (ms)=61524
                Total time spent by all reduces in occupied slots (ms)=0
                Total time spent by all map tasks (ms)=61524
                Total vcore-milliseconds taken by all map tasks=61524
                Total megabyte-milliseconds taken by all map tasks=63000576
        Map-Reduce Framework
                Map input records=68883
                Map output records=68883
                Input split bytes=469
                Spilled Records=0
                Failed Shuffles=0
                Merged Map outputs=0
                GC time elapsed (ms)=539
                CPU time spent (ms)=5870
                Physical memory (bytes) snapshot=483188736
                Virtual memory (bytes) snapshot=6044938240
                Total committed heap usage (bytes)=243007488
        File Input Format Counters
                Bytes Read=0
        File Output Format Counters
                Bytes Written=2999944
24/07/22 23:23:59 INFO mapreduce.ImportJobBase: Transferred 2.861 MB in 29.4574 seconds (99.4533 KB/sec)
24/07/22 23:23:59 INFO mapreduce.ImportJobBase: Retrieved 68883 records.
[cloudera@quickstart ~]$ sqoop import --connect jdbc:mysql://quickstart:3306/retail_db --password cloudera --username root --table orders;
```

To check the imported tables

Hadoop fs -ls

```
drwxr-xr-x   - cloudera cloudera          0 2024-07-22 23:19 departments
drwxr-xr-x   - cloudera cloudera          0 2024-07-22 23:23 orders
```

To make a table in sql where the data will be exported

```
[cloudera@quickstart ~]$ mysql -u root -pcloudera
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 58
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> use retail_db;
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> select * from empty;
Empty set (0.00 sec)
```

```
[cloudera@quickstart ~]$ sqoop export --connect jdbc:mysql://localhost/retail_db --username root --password cloudera
--table empty --export-dir /user/cloudera/toexport/data.txt
```

To export the table from local to cloud to sql

To check the exported table

```
mysql> use retail_db;
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> select * from empty;
+----+---------+-----------+
| id | name    | location  |
+----+---------+-----------+
|  1 | Ruchit  | dombivli  |
|  2 | Prisha  | mulund    |
|  3 | Khushi  | kandivali |
|  4 | Kaushal | Borivali  |
+----+---------+-----------+
4 rows in set (0.00 sec)

mysql>
```