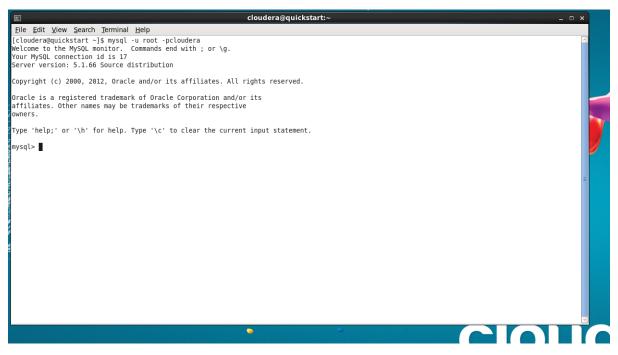
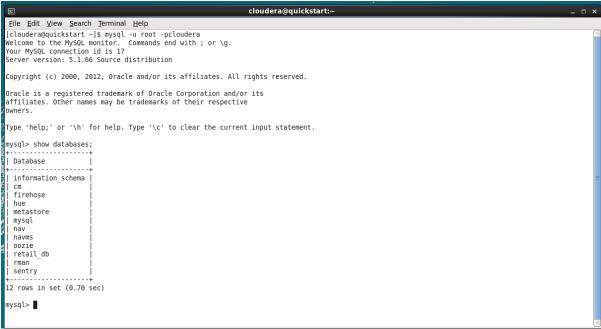
Experiment – 07

Demonstrate the use of Sqoop tools to transfer data between Hadoop & relation database servers

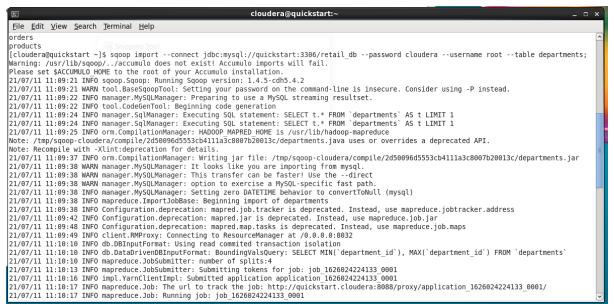




```
cloudera@quickstart:~
<u>File Edit View Search Terminal Help</u>
12 rows in set (0.70 sec)
mysql> use retail_db;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> show tables;
| Tables_in_retail_db |
  categories
customers
   departments
  order_items
orders
products
6 rows in set (0.00 sec)
mysql> select *from departments;
  department_id | department_name |
                   2 |
                        Fitness
                        Footwear
Apparel
Golf
Outdoors
                   7 | Fan Shop
6 rows in set (0.00 sec)
mysql>
```



```
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart -]$ sqoop list-databases --connect jdbc:mysql://quickstart:3306/ --password cloudera --username root;
Warning: /usr/lib/sqoop/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO HOME to the root of your Accumulo installation.
21/07/11 11:00:40 INFO sqoop.Sqoop: Running Sqoop version: 1.4.5-cdh5.4.2
21/07/11 11:00:40 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
21/07/11 11:00:44 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
information schema
firehose
hue
metastore
mysql
navms
retail db
 rman
sentry
[cloudera@quickstart ~]$ sqoop list-tables --connect jdbc:mysql://quickstart:3306/retail_db --password cloudera --username root;
Warning: /usr/lib/sqoop/../accumulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
21/07/11 11:06:00 INFO sqoop.Sqoop: Running Sqoop version: 1.4.5-cdh5.4.2
21/07/11 11:06:01 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
21/07/11 11:06:04 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
categories
customers
departments
order_items
orders
products
[cloudera@quickstart ~]$
```



```
| Cloudera@quickstart:~ | Clou
```

```
cloudera@quickstart:~
   <u>File Edit View Search Terminal Help</u>
 21/07/11 11:14:34 INFO mapreduce.ImportJobBase: Retrieved 6 records.
[cloudera@quickstart ~]$ hadoop fs -ls
0 2021-07-10 11:42 .Trash
0 2021-07-10 11:28 Training
0 2021-07-11 11:14 departments
 | Cloudera@quickstate
| Found 5 items |
|-Tw-Fr--r- 1 cloudera cloudera cloudera |
|-Tw-Fr--r- 1 cloudera cloudera cloudera cloudera |
|-Tw-Fr--r- 1 cloudera clo
  [cloudera@quickstart ~]$ hadoop fs -ls departments;
                                                                                                                                                                          0 2021-07-11 11:14 departments/ SUCCESS
                                                                                                                                                                      21 2021-07-11 11:14 departments/part-m-00000
10 2021-07-11 11:14 departments/part-m-00001
7 2021-07-11 11:14 departments/part-m-00002
| Tw-r-r- 1 cloudera cloudera | 7 zoz1-07-11 11:14 departments/part-m-00002 | cloudera@quickstart ~]$ hadoop fs -cat /user/cloudera/departments/part-m-0000 | cat: `/user/cloudera/departments/part-m-0000 | codera@quickstart ~]$ hadoop fs -cat /user/cloudera/departments/part-m-00000 | Codera@quickstart ~]$ hadoop fs -cat /user/cloudera/departments/part-m-00000 | Codera@quickstart ~]$ hadoop fs -cat /user/cloudera/departments/part-m-00000
 2,Fitness
3,Footwear
[cloudera@quickstart ~]$ hadoop fs -cat /user/cloudera/departments/part-m-00001
 4,Apparel
[cloudera@quickstart ~]$ hadoop fs -cat /user/cloudera/departments/part-m-00002
| S.Golf
| [cloudera@quickstart ~]$ hadoop fs -cat /user/cloudera/departments/part-m-00003
 6,0utdoors
7,Fan Shop
   [cloudera@quickstart ~]$ hadoop fs -cat /user/cloudera/departments/part*
   2.Fitness
 3,Footwear
 4,Apparel
 5,Golf
6,Outdoors
        Fan Shop
   [cloudera@quickstart ~]$
```

```
File Edit View Search Terminal Help
    [cloudera@quickstart ~]$ sqoop import --connect idbc:mysql://quickstart:3306/retail db --password cloudera --username root --table departments
 || Clouderagguickstart = | s sqoop import --connect | doc:mysql://quickstart:330b/retail_do --password cloudera --username root -
target-dir /user/cloudera/department1
| Warning: /usr/lib/sqoop/../accumulo does not exist! Accumulo imports will fail.
| Please set $AccUMULO HOME to the root of your Accumulo installation.
| 21/07/11 11:24:28 INFO sqoop.Sqoop: Running Sqoop version: 1.4.5-cdh5.4.2
| 21/07/11 11:24:28 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
| 21/07/11 11:24:30 INFO manager: MySQLManager: Preparing to use a MySQL streaming resultset.
21/07/11 11:24:28 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead. 21/07/11 11:24:30 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset. 21/07/11 11:24:30 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'departments' AS t LIMIT 1 21/07/11 11:24:32 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'departments' AS t LIMIT 1 21/07/11 11:24:32 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'departments' AS t LIMIT 1 21/07/11 11:24:32 INFO orm.CompilationManager: HADOOP MAPRED HOME is /usr/lib/hadoop-mapreduce Note: /tmp/sqoop-cloudera/compile/96abb73c9b8f2a328c21f813e57126ed/departments.java uses or overrides a deprecated API. Note: Recompile with -Xlint:deprecation for details. 21/07/11 11:24:43 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-cloudera/compile/96abb73c9b8f2a328c21f813e57126ed/departments.jav 21/07/11 11:24:43 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-cloudera/compile/96abb73c9b8f2a328c21f813e57126ed/departments.jav 21/07/11 11:24:43 WARN manager.MySQLManager: It looks like you are importing from mysql. 21/07/11 11:24:43 WARN manager.MySQLManager: option to exercise a MySQL-specific fast path. 21/07/11 11:24:43 INFO manager.MySQLManager: setting zero DATETIME behavior to convertToNull (mysql) 21/07/11 11:24:43 INFO Configuration.deprecation: mapred.job.tracker is deprecated. Instead, use mapreduce.jobtracker.address 21/07/11 11:24:43 INFO Configuration.deprecation: mapred.job.tracker is deprecated. Instead, use mapreduce.job.jar 21/07/11 11:24:49 INFO Configuration.deprecation: mapred.job.tracker is deprecated. Instead, use mapreduce.job.jar 21/07/11 11:24:49 INFO Configuration.deprecation: mapred.job.tracker is deprecated. Instead, use mapreduce.job.jar 21/07/11 11:24:49 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar 21/07/11 11:24:49 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, 
                                                                                                                                                                                                          cloudera@quickstart:~
     <u>File Edit View Search Terminal Help</u>
                                                         Merged Map outputs=0
                             GC time elapsed (ms)=5989
GPU time spent (ms)=5989
GPU time spent (ms)=9550
Physical memory (bytes) snapshot=377458688
Virtual memory (bytes) snapshot=6020595712
Total committed heap usage (bytes)=119799808
File Input Format Counters
                                                        Bytes Read=0
  File Output Format Counters
Bytes Written=60
21/07/11 11:28:07 INFO mapreduce.ImportJobBase: Transferred 60 bytes in 198.6761 seconds (0.302 bytes/sec)
  21/07/11 11:28:07 INFO mapreduce.ImportJobBase: Retrieved 6 records.
[cloudera@quickstart ~]$ hadoop fs -ls
   Found 4 items
                                                                                                                                              0 2021-07-10 11:42 .Trash
0 2021-07-10 11:28 Training
0 2021-07-11 11:28 department1
0 2021-07-11 11:14 departments
                                               - cloudera cloudera
   drwxr-xr-x
                                                    cloudera cloudera
cloudera cloudera
cloudera cloudera
   drwxr-xr-x
drwxr-xr-x
   drwxr-xr-x
    [cloudera@quickstart ~]$ hadoop fs -ls /user/cloudera/department1
    Found 5 items
-rw-r--r-- 1 cloudera cloudera
                                                                                                                                              0 2021-07-11 11:28 /user/cloudera/department1/ SUCCESS
    2.Fitness
   3,Footwear
4,Apparel
    5.Golf
    6,0utdoors
```

cloudera@quickstart ~]\$

```
cloudera@quickstart:~
  <u>File Edit View Search Terminal Help</u>
                                      Total megabyte-seconds taken by all map tasks=211574784
Map-Reduce Framework
                                                                           Map input records=3
                                                                           Map output records=3
Input split bytes=361
Spilled Records=0
                                                                             Failed Shuffles=0
                                                                           Falled Shuffles=0
Merged Map outputs=0
GC time elapsed (ms)=3003
CPU time spent (ms)=6810
Physical memory (bytes) snapshot=309657600
Virtual memory (bytes) snapshot=4515348480
Total committed heap usage (bytes)=89849856
                                      File Input Format Counters
Bytes Read=0
                                       File Output Format Counters
Bytes Written=29
21/07/11 11:41:51 INFO mapreduce.ImportJobBase: Transferred 29 bytes in 121.0245 seconds (0.2396 bytes/sec)
21/07/11 11:41:51 INFO mapreduce.ImportJobBase: Retrieved 3 records.
 [cloudera@quickstart ~]$
[cloudera@quickstart ~]$ hadoop fs -ls /user/cloudera/department2
Found 4 items
-rw-r--r- 1 cloudera cloudera
-rw-r--r-- 1 cloudera cloudera
-rw-r--r--- 1 cloudera cloudera
-rw-r--r-------
   Found 4 items
  6,0utdoors
       .Fan Shop
  [cloudera@quickstart ~]$
```

