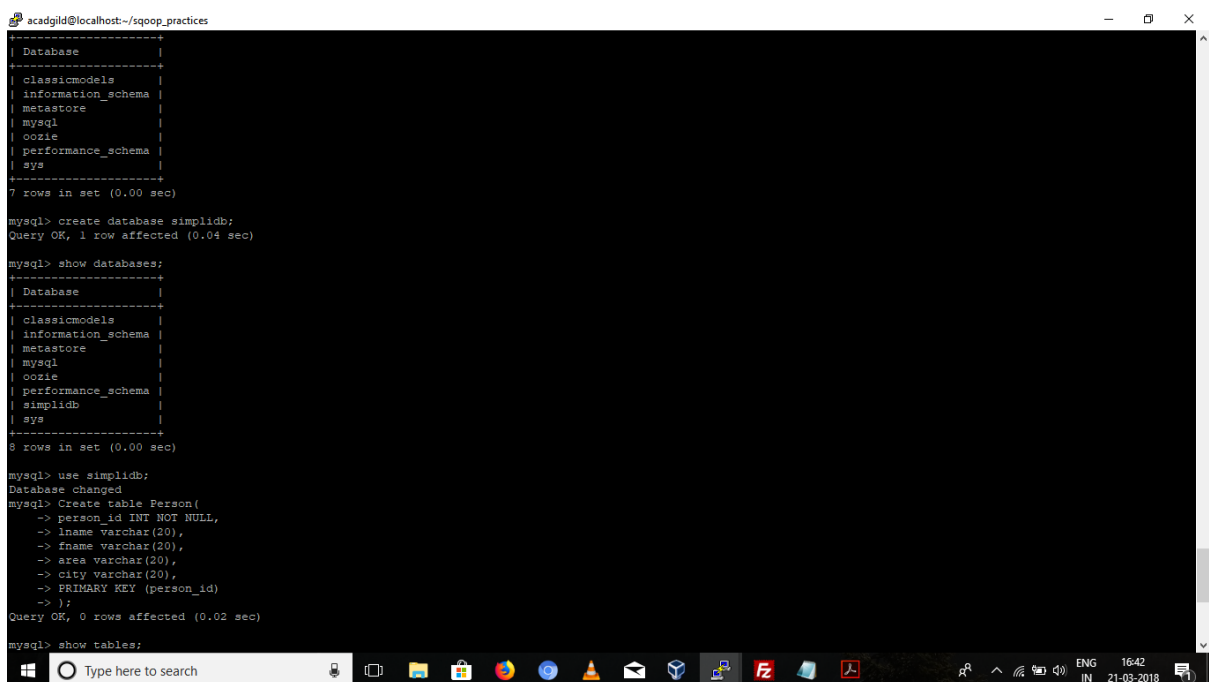


ASSIGNMENT SQOOP

Task1:

Command used:

- a) `mysql -u root -p` : connect to mysql with password `Root@123`
- b) create database `simplidb`;
- c) create table `person` as instructed in given file.



```
acagild@localhost:~/sqoop_practices
+-----+
| Database |
+-----+
| classicmodels |
| information_schema |
| metastore |
| mysql |
| oozie |
| performance_schema |
| sys |
+-----+
7 rows in set (0.00 sec)

mysql> create database simplidb;
Query OK, 1 row affected (0.04 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| classicmodels |
| information_schema |
| metastore |
| mysql |
| oozie |
| performance_schema |
| simplidb |
| sys |
+-----+
8 rows in set (0.00 sec)

mysql> use simplidb;
Database changed
mysql> Create table Person(
-> person_id INT NOT NULL,
-> lname varchar(20),
-> fname varchar(20),
-> area varchar(20),
-> city varchar(20),
-> PRIMARY KEY (person_id)
-> );
Query OK, 0 rows affected (0.02 sec)

mysql> show tables;
```

- d) Use `sqoop import` to push the table to hdfs using command: `sqoop import --connect:mysql://localhost/simplidb --username root -P --target-dir /sqoopOUT`
- e) Check the table : `sqoop list-tables --connect jdbc:mysql://localhost/simplidb --username root -P`

```
acadgild@localhost:~/sqoop_practices
[acadgild@localhost sqoop_practices]$ sqoop list-tables --connect jdbc:mysql://1
localhost/simplidb --username root -P
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/./hca
talog does not exist! HCatalog jobs will fail.
Please set $HCATALOG_HOME to the root of your HCatalog installation.
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/./acc
umulo does not exist! Accumulo imports will fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/./zoo
keeper does not exist! Accumulo imports will fail.
Please set $ZOOKEEPER_HOME to the root of your Zookeeper installation.
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/install/hadoop/hadoop-2.9.0/sha
ra/hadoop/common/lib/slf4j-log4j12-1.7.25.jar!/org/slf4j/impl/StaticLoggerBinder
.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hbase/hbase-1.2.6/lib/s
lf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
18/03/21 22:04:01 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
Enter password:
18/03/21 22:04:06 INFO manager.MySQLManager: Preparing to use a MySQL streaming
resultset.
Wed Mar 21 22:04:06 IST 2018 WARN: Establishing SSL connection without server's
identity verification is not recommended. According to MySQL 5.5.45+, 5.6.26+ an
d 5.7.6+ requirements SSL connection must be established by default if explicit
option isn't set. For compliance with existing applications not using SSL the ve
rifyServerCertificate property is set to 'false'. You need either to explicitly
disable SSL by setting useSSL=false, or set useSSL=true and provide truststore f
or server certificate verification.
Person
[acadgild@localhost sqoop_practices]$
```

```
acadgild@localhost:~/sqoop_practice
Merged Map outputs=0
GC time elapsed (ms)=2024
CPU time spent (ms)=11130
Physical memory (bytes) snapshot=672673792
Virtual memory (bytes) snapshot=10340782080
Total committed heap usage (bytes)=314900480
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=148
18/03/21 23:03:29 INFO mapreduce.ImportJobBase: Transferred 148 bytes in 59.7679 seconds (2.476
2 bytes/sec)
18/03/21 23:03:29 INFO mapreduce.ImportJobBase: Retrieved 5 records.
[acadgild@localhost sqoop_practice]$ hadoop fs -ls sqoopOUT
18/03/21 23:04:42 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your pla
tform... using builtin-java classes where applicable
Found 1 items
drwxr-xr-x - acadgild supergroup 0 2018-03-21 23:03 sqoopOUT/Person
[acadgild@localhost sqoop_practice]$ hadoop fs -ls sqoopOUT/Person
18/03/21 23:04:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your pla
tform... using builtin-java classes where applicable
Found 6 items
-rw-r--r-- 1 acadgild supergroup 0 2018-03-21 23:03 sqoopOUT/Person/_SUCCESS
-rw-r--r-- 1 acadgild supergroup 24 2018-03-21 23:03 sqoopOUT/Person/part-m-00000
-rw-r--r-- 1 acadgild supergroup 35 2018-03-21 23:03 sqoopOUT/Person/part-m-00001
-rw-r--r-- 1 acadgild supergroup 37 2018-03-21 23:03 sqoopOUT/Person/part-m-00002
-rw-r--r-- 1 acadgild supergroup 42 2018-03-21 23:03 sqoopOUT/Person/part-m-00003
-rw-r--r-- 1 acadgild supergroup 10 2018-03-21 23:03 sqoopOUT/Person/part-m-00004
[acadgild@localhost sqoop_practice]$ hadoop fs -cat sqoopOUT/Person/part-m-00001
18/03/21 23:07:23 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
2,Tanya,Priya,Whitefiled,Bangalore
[acadgild@localhost sqoop_practice]$
```

f) Export the table into mysql;

g) Database AssmtDB created with empty Demo table inside it.

h) Export command : sqoop export --connect

jdbc:mysql://localhost/AssmtDB --table Demo --username root -P

--m 1 --export-dir sqoopOUT/Person

```
acacgild@localhost:~/sqoop_practices
[acacgild@localhost sqoop_practices]$
[acacgild@localhost sqoop_practices]$ hadoop fs -ls sqoopOUT/Person
18/03/21 23:59:40 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable
Found 6 items
-rw-r--r-- 1 acacgild supergroup 0 2018-03-21 23:03 sqoopOUT/Person/_SUCCESS
-rw-r--r-- 1 acacgild supergroup 24 2018-03-21 23:03 sqoopOUT/Person/part-m-00000
-rw-r--r-- 1 acacgild supergroup 35 2018-03-21 23:03 sqoopOUT/Person/part-m-00001
-rw-r--r-- 1 acacgild supergroup 37 2018-03-21 23:03 sqoopOUT/Person/part-m-00002
-rw-r--r-- 1 acacgild supergroup 42 2018-03-21 23:03 sqoopOUT/Person/part-m-00003
-rw-r--r-- 1 acacgild supergroup 10 2018-03-21 23:03 sqoopOUT/Person/part-m-00004
[acacgild@localhost sqoop_practices]$ sqoop export --connect jdbc:mysql://localhost/AssmtDB --table Demo --username root -
P --m 1 --export-dir sqoopOUT/Person
Warning: /home/acacgild/install/sqoop/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/./hcatalog does not exist! HCatalog jobs will f
ail.
Please set $HCAT_HOME to the root of your HCatalog installation.
Warning: /home/acacgild/install/sqoop/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/./accumulo does not exist! Accumulo imports will
fail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
Warning: /home/acacgild/install/sqoop/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/./zookeeper does not exist! Accumulo imports wi
ll fail.
Please set $ZOOKEEPER_HOME to the root of your Zookeeper installation.
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acacgild/install/hadoop/hadoop-2.9.0/share/hadoop/common/lib/slf4j-log4j12-1.7.25.
jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/acacgild/install/hbase/hbase-1.2.6/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/Sta
ticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
18/03/22 00:01:19 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
Enter password:
18/03/22 00:01:26 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/03/22 00:01:26 INFO tool.CodeGenTool: Beginning code generation
```

i) Check the exported table into mysql

```
acacgild@localhost:~/sqoop_practices
mysql> desc Demo;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| person_id | int(11) | NO | PRI | NULL | |
| lname | varchar(20) | YES | | NULL | |
| fname | varchar(20) | YES | | NULL | |
| area | varchar(20) | YES | | NULL | |
| city | varchar(20) | YES | | NULL | |
+-----+
5 rows in set (0.00 sec)

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

mysql> desc Demo;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| person_id | int(11) | NO | PRI | NULL | |
| lname | varchar(20) | YES | | NULL | |
| fname | varchar(20) | YES | | NULL | |
| area | varchar(20) | YES | | NULL | |
| city | varchar(20) | YES | | NULL | |
+-----+
5 rows in set (0.00 sec)

mysql> select * from Demo;
+-----+
| person_id | lname | fname | area | city |
+-----+
| 1 | Shyam | Ram | Patna | Bihar |
| 2 | Tanya | Priya | Whitefield | Bangalore |
| 3 | James | Brown | New York | United States |
| 4 | Jhon | Miller | Los Angeles | United States |
| 5 | a | b | c | d |
+-----+
5 rows in set (0.00 sec)

mysql>
```