

Assignment Day 6

Creating setup for Assignment Tasks:

Importing **Person** table SQOOPOUT & Exporting in **Person1** table.

```
[acadgild@localhost Desktop]$ sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root --password Root@123 --target-dir /sqoopout
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin_hadoop-2.0.4-alpha/./hcatalog does not exist! HCatalog jobs will fail.
Please set $HCAT_HOME to the root of your HCatalog installation.
Warning: /home/acadgild/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.
18/07/09 14:07:57 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
18/07/09 14:07:57 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
18/07/09 14:07:58 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/07/09 14:07:58 INFO tool.CodeGenTool: Beginning code generation
Mon Jul 09 14:07:58 IST 2018 WARN: Establishing SSL connection without server's identity verification is not recommended. According to MySQL
5.5.45+, 5.6.26+ and 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 verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL by se
tting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.
18/07/09 14:08:00 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `Person` AS t LIMIT 1
18/07/09 14:08:00 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `Person` AS t LIMIT 1
18/07/09 14:08:00 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /home/acadgild/install/hadoop/hadoop-2.6.5
Note: /tmp/sqoop-acadgild/compile/fee33aeb88b98924a8aaa7c2ca0a9eb7/Person.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
18/07/09 14:08:05 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-acadgild/compile/fee33aeb88b98924a8aaa7c2ca0a9eb7/Person.jar
18/07/09 14:08:05 WARN manager.MySQLManager: It looks like you are importing from mysql.
18/07/09 14:08:05 WARN manager.MySQLManager: This transfer can be faster! Use the --direct
18/07/09 14:08:05 WARN manager.MySQLManager: option to exercise a MySQL-specific fast path.
18/07/09 14:08:05 INFO manager.MySQLManager: Setting zero DATETIME behavior to convertToNull (mysql)
18/07/09 14:08:05 INFO mapreduce.ImportJobBase: Beginning import of Person
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/imp
l/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hbase/hbase-1.2.6/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.c
lass]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
18/07/09 14:08:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where ap
plicable
18/07/09 14:08:06 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar
18/07/09 14:08:08 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
18/07/09 14:08:08 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
```

**sqoop import --connect jdbc:mysql://localhost/simplidb --table
Person --username root --password Root@123 --target-dir /sqoopout**

OutPut Folder:

hadoop fs -ls /sqoopout

(Lists files or folders **(if exists)** within **/sqoopout**)

```

[acadgild@localhost ~]$ hadoop fs -ls /sqoopout
18/07/09 15:06:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 5 items
-rw-r--r-- 1 acadgild supergroup 0 2018-07-09 14:09 /sqoopout/_SUCCESS
-rw-r--r-- 1 acadgild supergroup 81 2018-07-09 14:08 /sqoopout/part-m-00000
-rw-r--r-- 1 acadgild supergroup 81 2018-07-09 14:08 /sqoopout/part-m-00001
-rw-r--r-- 1 acadgild supergroup 81 2018-07-09 14:09 /sqoopout/part-m-00002
-rw-r--r-- 1 acadgild supergroup 111 2018-07-09 14:09 /sqoopout/part-m-00003
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -cat /sqoopout/part-m-00000
18/07/09 15:09:10 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Kharadi,Pune,Sahay,Sahil,1
Kharadi,Pune,Sahay,Sahil,2
Kharadi,Pune,Sahay,Sahil,3
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hadoop fs -cat /sqoopout/part-m-00001
18/07/09 15:09:16 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Kharadi,Pune,Sahay,Sahil,4
Kharadi,Pune,Sahay,Sahil,5
Kharadi,Pune,Sahay,Sahil,6
[acadgild@localhost ~]$ hadoop fs -cat /sqoopout/part-m-00002
18/07/09 15:09:22 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Kharadi,Pune,Sahay,Sahil,7
Kharadi,Pune,Sahay,Sahil,8
Kharadi,Pune,Sahay,Sahil,9
[acadgild@localhost ~]$ hadoop fs -cat /sqoopout/part-m-00003
18/07/09 15:09:28 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Kharadi,Pune,Sahay,Sahil,10
Kharadi,Pune,Sahay,Sahil,11
Kharadi,Pune,Sahay,Sahil,12
Patna,Bihar,Sahay,Sahil,13
[acadgild@localhost ~]$

```

Creating table **Person1** with same fields as Person table to export content of sqoopout folder into **Person1** table.

Create table Person1(person_id INT NOT NULL, lname varchar(20), fname varchar(20), area varchar(20), city varchar(20), PRIMARY KEY (person_id));

(Creates another table Person1 with same columns as that of Person table).

show tables;

(Lists the tables of simplidb database)

```

+-----+
| Tables_in_simplidb |
+-----+
| Person             |
| Person1           |
| employee            |
+-----+

```

```
mysql> desc Person1;
```

(Describes the columns of tables along with their properties)

```
+-----+-----+-----+-----+-----+
| 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)

Task 1:

Use Sqoop tool to export data present in SQOOPOUT folder made while demo of Import table

Ans:

```
mysql> select * from Person1;
```

(Initially-Before Export Person1 does not contain any row)

Empty set (0.00 sec)

After Export:

```
sqoop export --connect jdbc:mysql://localhost/simplidb --table Person1 --
username root --password Root@123 --export-dir /sqoopout
```

ScreenShot:

```
mysql> select * from Person1;
```

person_id	lname	fname	area	city
1	Sahil	Sahay	Kharadi	Pune
2	Sahil	Sahay	Kharadi	Pune
3	Sahil	Sahay	Kharadi	Pune
4	Sahil	Sahay	Kharadi	Pune
5	Sahil	Sahay	Kharadi	Pune
6	Sahil	Sahay	Kharadi	Pune
7	Sahil	Sahay	Kharadi	Pune
8	Sahil	Sahay	Kharadi	Pune
9	Sahil	Sahay	Kharadi	Pune
10	Sahil	Sahay	Kharadi	Pune
11	Sahil	Sahay	Kharadi	Pune
12	Sahil	Sahay	Kharadi	Pune
13	Sahil	Sahay	Patna	Bihar

```
13 rows in set (0.00 sec)
```

```
mysql> █
```

Task 2:

Use Sqoop tool to import data present in newly created table into SQOOPOUT2 folder made while demo of Import table

with parameter person_id =3.

Ans:

Initially /sqoopout2 does not exist.

hadoop fs -ls /sqoopout2

(lists content of sqoopout2)

Screenshot:

```
[acadgild@localhost ~]$ hadoop fs -ls /sqoopout2
18/07/10 21:27:06 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
ls: '/sqoopout2': No such file or directory
[acadgild@localhost ~]$ █
```

After IMPORT:

sqoop import --connect jdbc:mysql://localhost/simplidb --username root --password Root@123 --table **Person1** --target-dir /sqoopout2 -m 1 --where "person_id=3"

(imports the column from table Person1 where id=3 into sqoopout2 folder)

ScreenShot:

```
[acagdild@localhost ~]$ sqoop import --connect jdbc:mysql://localhost/simplidb --username root --password Root@123 --table Person1 --tar
get-dir /sqoopout2 -m 1 --where "person_id=3"
Warning: /home/acagdild/install/sqoop/sqoop-1.4.6.bin_hadoop-2.0.4-alpha/./hcatalog does not exist! HCatalog jobs will fail.
Please set $HCAT_HOME to the root of your HCatalog installation.
Warning: /home/acagdild/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.
18/07/10 21:32:52 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
18/07/10 21:32:52 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
18/07/10 21:32:52 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/07/10 21:32:52 INFO tool.CodeGenTool: Beginning code generation
Tue Jul 10 21:32:52 IST 2018 WARN: Establishing SSL connection without server's identity verification is not recommended. According to M
ysql 5.5.45+, 5.6.26+ and 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 verifyServerCertificate property is set to 'false'. You need either to explicitly disable
SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.
18/07/10 21:32:54 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person1' AS t LIMIT 1
18/07/10 21:32:54 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person1' AS t LIMIT 1
18/07/10 21:32:54 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /home/acagdild/install/hadoop/hadoop-2.6.5
Note: /tmp/sqoop-acagdild/compile/d88c9dd38c2e33af78d00030c6ff8050/Person1.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
18/07/10 21:32:58 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-acagdild/compile/d88c9dd38c2e33af78d00030c6ff8050/Person1.ja
r
18/07/10 21:32:58 WARN manager.MySQLManager: It looks like you are importing from mysql.
18/07/10 21:32:58 WARN manager.MySQLManager: This transfer can be faster! Use the --direct
18/07/10 21:32:58 WARN manager.MySQLManager: option to exercise a MySQL-specific fast path.
18/07/10 21:32:58 INFO manager.MySQLManager: Setting zero DATETIME behavior to convertToNull (mysql)
18/07/10 21:32:58 INFO mapreduce.ImportJobBase: Beginning import of Person1
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acagdild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/
impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/home/acagdild/install/hbase/hbase-1.2.6/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinde
r.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
18/07/10 21:32:59 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where
applicable
18/07/10 21:32:59 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar
18/07/10 21:33:00 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps

FILE: Number of bytes written=128014
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=87
HDFS: Number of bytes written=27
HDFS: Number of read operations=4
HDFS: Number of large read operations=0
HDFS: Number of write operations=2
Job Counters
  Launched map tasks=1
  Other local map tasks=1
  Total time spent by all maps in occupied slots (ms)=8769
  Total time spent by all reduces in occupied slots (ms)=0
  Total time spent by all map tasks (ms)=8769
  Total vcore-milliseconds taken by all map tasks=8769
  Total megabyte-milliseconds taken by all map tasks=8979456
Map-Reduce Framework
  Map input records=1
  Map output records=1
  Input split bytes=87
  Spilled Records=0
  Failed Shuffles=0
  Merged Map outputs=0
  GC time elapsed (ms)=104
  CPU time spent (ms)=2530
  Physical memory (bytes) snapshot=114585600
  Virtual memory (bytes) snapshot=2063437824
  Total committed heap usage (bytes)=48758784
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=27
8/07/10 21:33:34 INFO mapreduce.ImportJobBase: Transferred 27 bytes in 33.869 seconds (0.7972 bytes/sec)
8/07/10 21:33:34 INFO mapreduce.ImportJobBase: Retrieved 1 records.
ou have new mail in /var/spool/mail/acagdild
```

```
[acagdild@localhost ~]$ hadoop fs -ls /sqoopout2
18/07/10 21:38:03 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
Found 2 items
-rw-r--r--  1 acagdild supergroup      0 2018-07-10 21:33 /sqoopout2/_SUCCESS
-rw-r--r--  1 acagdild supergroup    27 2018-07-10 21:33 /sqoopout2/part-m-000000
You have new mail in /var/spool/mail/acagdild
[acagdild@localhost ~]$ hadoop fs -cat /sqoopout2/part-m-000000
18/07/10 21:38:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
3,Sahil,Sahay,Kharadi,Pune
[acagdild@localhost ~]$
```

End
