TASK 1-

We will verify table called Person in simplidb database. Person table has person_id as primary key.

```
mysql> show tables;
  Tables_in_simplidb
Person
 backup_person
  employee
3 rows in set (0.00 sec)
mysql> select * from Person;
  person_id | lname | fname | area
                                                     city
                                    | Whitefield | Bangalore
            1 | Rizvi | Syed
2 | Rizvi | Syed
3 | Rizvi | Syed
                 Rizvi
                            Syed
            4
                           Syed
            5
                 Rizvi
                 Rizvi
            6
                           Syed
                         Syed
                                    Whitefield
            7
                                                       Bangalore
                 Rizvi
                                      Whitefield
            8
                         Syed
                                                       Bangalore
                 Rizvi
                                      Whitefield
            9
                 Rizvi | Syed
                                                       Bangalore
           10
                 Rizvi | Syed
                                      Whitefield
                                                       Bangalore
           11
                 Rizvi
                                      Whitefield
                           Syed
                                                       Bangalore
           12 | Rizvi | Syed
                                    | Whitefield |
                                                       Bangalore
12 rows in set (0.00 sec)
```

Below is the data present in HDFS at 'sgoopout' folder

```
[acadgild@localhost ~]$ hadoop is -cat /sqoopout/*

18/07/29 13:38:21 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable

1,Rizvi,Syed,Whitefield,Bangalore
2,Rizvi,Syed,Whitefield,Bangalore
3,Rizvi,Syed,Whitefield,Bangalore
5,Rizvi,Syed,Whitefield,Bangalore
6,Rizvi,Syed,Whitefield,Bangalore
6,Rizvi,Syed,Whitefield,Bangalore
8,Rizvi,Syed,Whitefield,Bangalore
8,Rizvi,Syed,Whitefield,Bangalore
10,Rizvi,Syed,Whitefield,Bangalore
11,Rizvi,Syed,Whitefield,Bangalore
11,Rizvi,Syed,Whitefield,Bangalore
11,Rizvi,Syed,Whitefield,Bangalore
12,Rizvi,Syed,Whitefield,Bangalore
12,Rizvi,Syed,Whitefield,Bangalore
```

Now we will delete the data from Person table :

```
mysql> truncate table Person;
Query OK, 0 rows affected (0.18 sec)
mysql> select * from Person;
Empty set (0.00 sec)
```

Below we run the sqoop export command to export contents from /sqoopout folder in HDFS to table Person

sqoop export --connect jdbc:mysql://localhost/simplidb --table Person --username root -P --export-dir /sqoopout --input-fields-terminated-by ',' -m 1 --columns person id,lname,fname,area,city;

```
[acadgild@localhost ~]$ sqoop export --connect jdbc:mysql://localhost/simplidb --table Person --username root -P --export-dir /sqoopout --input-fields-terminated-by ',' - ml --columns person id,lname, fname, area,city;
Marning: /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.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
18/07/29 13:58:06 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
Enter password:
18/07/29 13:58:17 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/07/29 13:58:18 INFO tool.CodeGenTool: Beginning code generation
Sun Jul 29 13:58:18 INFO tool.CodeGenTool: Beginning code generation
Sun Jul 29 13:58:18 INFO tool.CodeGenTool: Beginning code generation
Sun Jul 29 13:58:18 INFO tool.CodeGenTool: Beginning code generation
Sun Jul 29 13:58:18 INFO tool.Come to the result of the stablishing SSL connection must be established by default if explicit option isn't set. For compliance we into 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.
18/07/29 13:58:19 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person' AS t LIMIT 1
18/07/29 13:58:19 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person' AS t LIMIT 1
18/07/29 13:58:19 INFO orm.CompilationManager: Manager Home is Nome/acadgild/install/hadoop/hadoop-2.6.5
Note: /tmp/sqoop-acadgild/compile/80b9b78172f83a79a7decc9d67ba5f06/Person.java uses or overrides a deprecated API.
Note: Recompile with -Xlintideprecation for details.
18/07/29 13:58:12 INFO manager.SqlManager: Executing SQL statements of Person SLF41: Class path compilationManager: Home in Arcting person of Person SLF41: Class p
       .class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.slf4j.impl.Log4jLoggerFactory]
18/07/29 13:58:24 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/07/29 13:58:24 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar
18/07/29 13:58:27 INFO Configuration.deprecation: mapred.reduce.tasks.speculative.execution is deprecated. Instead, use mapreduce.reduce.
18/07/29 13:58:27 INFO Configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use mapreduce.map.speculative
     ative
18/97/29 13:58:27 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
18/07/29 13:58:27 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/07/29 13:58:32 INFO input.FileInputFormat: Total input paths to process : 4
18/07/29 13:58:32 INFO input.FileInputFormat: Total input paths to process : 4
18/07/29 13:58:32 INFO mapreduce.JobSubmitter: number of splits:1
18/07/29 13:58:32 INFO configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use mapreduce.map.specul
18/07/29 13:58:32 INFO Configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use mapredulative 18/07/29 13:58:32 INFO configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use mapredulative 18/07/29 13:58:32 INFO mapreduce.JobsUbmitter: Submitting tokens for job: job_1532845056857_0009 18/07/29 13:58:33 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1532845056857_0009/18/07/29 13:58:33 INFO mapreduce.Job: Running job: job_1532845056857_0009 18/07/29 13:58:49 INFO mapreduce.Job: Job job 1532845056857_0009 running in uber mode: false 18/07/29 13:58:49 INFO mapreduce.Job: map 0% reduce 0% 18/07/29 13:59:01 INFO mapreduce.Job: Job job_1532845056857_0009 completed successfully 18/07/29 13:59:01 INFO mapreduce.Job: Job job_1532845056857_0009 completed successfully 18/07/29 13:59:01 INFO mapreduce.Job: Counters: 30 File System Counters

FILE: Number of bytes written=127541 FILE: Number of bytes written=127541 FILE: Number of bytes written=127541 FILE: Number of large read operations=0 FILE: Number of bytes written=0 HDFS: Number of paradoperations=0 HDFS: Number of the paradoperations=0 Job Counters

Launched map tasks=1
                                                                 HDFS: Number of Write Operations—5

Job Counters

Launched map tasks=1

Data-local map tasks=1

Total time spent by all maps in occupied slots (ms)=9266

Total time spent by all reduces in occupied slots (ms)=0

Total time spent by all map tasks (ms)=9266

Total voore-milliseconds taken by all map tasks=9266

Total wegabyte-milliseconds taken by all map tasks=9488384

Map-Reduce Framework

Map input records=12
```

Below screenshot image shows that the data from sqoopout folder is loaded in the table Person.

TASK 2:

Below we have executed sqoop import command to place the data from the table Person having Person_id =3 to HDFS location /sqoopout2 as shown in below screenshot :

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

```
[acadgild@localhost -]$ sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root --password Root@123 --targe t-dir /sqoopout2 --split-by Person Id -m 1 --where *person id=3* --columns person id.lname.fname.area.city;
warning: /nome/acadgild/instalt/sqoop/sqoop-i.4.b.bin hadoop-z.0.4-alpha/../ncatalog does not exist! Accumulo imports will fail.
Please set StCAT.HOME to the root of your Mctallog installation.
Warning: /home/acadgild/install/sqoop/sqoop-i.4.b.bin hadoop-z.0.4-alpha/../accumulo does not exist! Accumulo imports will fail.
Please set setCUMULO HOME to the root of your Accumulo installation.
18/07/29 15:02:20 INFO sqoop.Sqoop: Rumning Sqoop version: 1.4.6
18/07/29 15:02:20 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/07/29 15:02:21 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/07/29 15:02:21 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/07/29 15:02:21 INFO manager.Squbaming code generation
Sun Jul 29 15:02:22 INFO manager.Squbaming code generation
Sun Jul 29 15:02:23 INFO manager.Squbaming streaming to use a MySQL streaming resultset.
18/07/29 15:02:23 INFO manager.Squbamager: Executing SQL streaming resultset to explication is not recommended. According to My
Squbaming useSSL=false. or set useSSL=frue and provide truststore for server errificate verification.
18/07/29 15:02:23 INFO manager.Squbamager: Executing SQL statement: SELECT t.* FROM 'Person As t LIMIT 1
18/07/29 15:02:23 INFO manager.Squbamager: Executing SQL statement: SELECT t.* FROM 'Person As t LIMIT 1
18/07/29 15:02:23 INFO manager.Squbamager: Executing SQL statement: SELECT t.* FROM 'Person As t LIMIT 1
18/07/29 15:02:27 INFO manager.Squbamager: Executing SQL statement: SELECT t.* FROM 'Person As t LIMIT 1
18/07/29 15:02:27 IN
```

Below image shows that data present at /sqoopout2 folder with Person_id=3

```
[acadgild@localhost ~]s hadoop fs -ls /sqoopout2

18/07/29 15:03:26 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 acadgild supergroup 0 2018-07-29 15:03 /sqoopout2/_SUCCESS
-rw-r--r-- 1 acadgild supergroup 34 2018-07-29 15:03 /sqoopout2/part-m-00000
[acadgild@localhost ~]s hadoop fs -cat /sqoopout2/part-m-00000

18/07/29 15:03:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable 3, Rizvi, Syed, Whitefield, Bangalore
```