Task1
```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| metastore          |
| mysql              |
| ngdb               |
| oozie              |
| performance_schema |
| simplidb           |
| sqooptest          |
| sys                |
+--------------------+
9 rows in set (0.00 sec)


mysql> select * from simplidb.Person;
+-----------+-------+--------+--------------+--------------+
| person_id | lname | fname  | area         | city         |
+-----------+-------+--------+--------------+--------------+
|         1 | Shyam | Ram    | Patna        | Bihar        |
|         2 | Tanya | Priya  | Whitefiled   | Bangalore    |
|         3 | James | Brown  | New York     | United States |
|         4 | Jhon  | Miller | Los Angeles  | United States |
|       789 | a     | b      | c            | d            |
+-----------+-------+--------+--------------+--------------+
5 rows in set (0.00 sec)

mysql> show tables;
ERROR 1046 (3D000): No database selected
mysql> use simplidb;
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_simplidb |
+--------------------+
| Person             |
+--------------------+
1 row in set (0.00 sec)

mysql> create table student(id INT,fname varchar(50),lname varchar(50),area varchar(50),city varchar
(50));
Query OK, 0 rows affected (0.02 sec)

mysql> describe student;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| id    | int(11)     | YES  |     | NULL    |       |
| fname | varchar(50) | YES  |     | NULL    |       |
| lname | varchar(50) | YES  |     | NULL    |       |
```

```
| area  | varchar(50) | YES |     | NULL  |       |
| city  | varchar(50) | YES |     | NULL  |       |
+-------+-------------+------+-----+---------+-------+
```
5 rows in set (0.00 sec)

[acadgild@localhost ~]$ sqoop import --connect jdbc:mysql://localhost/simplidb --table Person --username root -P --target-dir /sqooptesting2 -m 1

18/06/26 14:09:39 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
Enter password:
18/06/26 14:09:44 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/06/26 14:09:44 INFO tool.CodeGenTool: Beginning code generation
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/impl/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.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/log4j-slf4j-impl-2.6.2.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]
Tue Jun 26 14:09:45 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 setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.
18/06/26 14:09:45 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `Person` AS t LIMIT 1
18/06/26 14:09:45 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `Person` AS t LIMIT 1
18/06/26 14:09:45 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /home/acadgild/install/hadoop/hadoop-2.6.5
Note: /tmp/sqoop-acadgild/compile/cd94a705db62cc92437fee228baa5448/Person.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
18/06/26 14:09:48 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-acadgild/compile/cd94a705db62cc92437fee228baa5448/Person.jar
18/06/26 14:09:48 WARN manager.MySQLManager: It looks like you are importing from mysql.
18/06/26 14:09:48 WARN manager.MySQLManager: This transfer can be faster! Use the --direct
18/06/26 14:09:48 WARN manager.MySQLManager: option to exercise a MySQL-specific fast path.
18/06/26 14:09:48 INFO manager.MySQLManager: Setting zero DATETIME behavior to convertToNull (mysql)
18/06/26 14:09:48 INFO mapreduce.ImportJobBase: Beginning import of Person
18/06/26 14:09:48 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/06/26 14:09:48 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar
18/06/26 14:09:49 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
18/06/26 14:09:49 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
Tue Jun 26 14:09:50 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 setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.
18/06/26 14:09:51 INFO db.DBInputFormat: Using read commited transaction isolation
18/06/26 14:09:51 INFO mapreduce.JobSubmitter: number of splits:1
18/06/26 14:09:51 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1530000379560_0002
18/06/26 14:09:51 INFO impl.YarnClientImpl: Submitted application application_1530000379560_0002
18/06/26 14:09:51 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1530000379560_0002/
18/06/26 14:09:51 INFO mapreduce.Job: Running job: job_1530000379560_0002
18/06/26 14:09:59 INFO mapreduce.Job: Job job_1530000379560_0002 running in uber mode : false
18/06/26 14:09:59 INFO mapreduce.Job: map 0% reduce 0%
18/06/26 14:10:08 INFO mapreduce.Job: map 100% reduce 0%
18/06/26 14:10:08 INFO mapreduce.Job: Job job_1530000379560_0002 completed successfully
18/06/26 14:10:08 INFO mapreduce.Job: Counters: 30
        File System Counters
                FILE: Number of bytes read=0
                FILE: Number of bytes written=127868
                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=150
                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)=4943
                Total time spent by all reduces in occupied slots (ms)=0
                Total time spent by all map tasks (ms)=4943
                Total vcore-milliseconds taken by all map tasks=4943
                Total megabyte-milliseconds taken by all map tasks=5061632
        Map-Reduce Framework
                Map input records=5
                Map output records=5
                Input split bytes=87
                Spilled Records=0
                Failed Shuffles=0
                Merged Map outputs=0
                GC time elapsed (ms)=47
                CPU time spent (ms)=1240
                Physical memory (bytes) snapshot=144351232
                Virtual memory (bytes) snapshot=2063667200
                Total committed heap usage (bytes)=127795200
        File Input Format Counters
                Bytes Read=0
        File Output Format Counters
                Bytes Written=150
18/06/26 14:10:08 INFO mapreduce.ImportJobBase: Transferred 150 bytes in 19.1228 seconds (7.844 bytes/sec)
18/06/26 14:10:08 INFO mapreduce.ImportJobBase: Retrieved 5 records.
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hdfs dfs -cat /sqooptesting2/part-m-0000018/06/26 14:10:28 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java

classes where applicable

1,Shyam,Ram,Patna,Bihar
2,Tanya,Priya,Whitefiled,Bangalore
3,James,Brown,New York,United States
4,Jhon,Miller, Los Angeles ,United States
789,a,b,c,d

[acadgild@localhost ~]$ sqoop export --connect jdbc:mysql://localhost/simplidb --username root --password Root@123 --table student --export-dir /sqooptesting2/part-m-00000 -m 1

18/06/26 14:29:19 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
18/06/26 14:29:19 WARN tool.BaseSqoopTool: Setting your password on the command-line is insecure. Consider using -P instead.
18/06/26 14:29:19 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/06/26 14:29:19 INFO tool.CodeGenTool: Beginning code generation
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/impl/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.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/log4j-slf4j-impl-2.6.2.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]
Tue Jun 26 14:29:20 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 setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.
18/06/26 14:29:21 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `student` AS t LIMIT 1
18/06/26 14:29:21 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `student` AS t LIMIT 1
18/06/26 14:29:21 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /home/acadgild/install/hadoop/hadoop-2.6.5
Note: /tmp/sqoop-acadgild/compile/afa70f4108efcc41706e89e8507a259d/student.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
18/06/26 14:29:23 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-acadgild/compile/afa70f4108efcc41706e89e8507a259d/student.jar
18/06/26 14:29:23 INFO mapreduce.ExportJobBase: Beginning export of student
18/06/26 14:29:23 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/06/26 14:29:23 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar
18/06/26 14:29:24 INFO Configuration.deprecation: mapred.reduce.tasks.speculative.execution is deprecated. Instead, use mapreduce.reduce.speculative
18/06/26 14:29:24 INFO Configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use mapreduce.map.speculative

18/06/26 14:29:24 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
18/06/26 14:29:24 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
18/06/26 14:29:26 INFO input.FileInputFormat: Total input paths to process : 1
18/06/26 14:29:26 INFO input.FileInputFormat: Total input paths to process : 1
18/06/26 14:29:26 INFO mapreduce.JobSubmitter: number of splits:1
18/06/26 14:29:26 INFO Configuration.deprecation: mapred.map.tasks.speculative.execution is deprecated. Instead, use mapreduce.map.speculative
18/06/26 14:29:26 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1530000379560_0003
18/06/26 14:29:26 INFO impl.YarnClientImpl: Submitted application application_1530000379560_0003
18/06/26 14:29:26 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1530000379560_0003/
18/06/26 14:29:26 INFO mapreduce.Job: Running job: job_1530000379560_0003
18/06/26 14:29:34 INFO mapreduce.Job: Job job_1530000379560_0003 running in uber mode : false
18/06/26 14:29:34 INFO mapreduce.Job: map 0% reduce 0%
18/06/26 14:29:40 INFO mapreduce.Job: map 100% reduce 0%
18/06/26 14:29:41 INFO mapreduce.Job: Job job_1530000379560_0003 completed successfully
18/06/26 14:29:41 INFO mapreduce.Job: Counters: 30
        File System Counters
                FILE: Number of bytes read=0
                FILE: Number of bytes written=127555
                FILE: Number of read operations=0
                FILE: Number of large read operations=0
                FILE: Number of write operations=0
                HDFS: Number of bytes read=282
                HDFS: Number of bytes written=0
                HDFS: Number of read operations=4
                HDFS: Number of large read operations=0
                HDFS: Number of write operations=0
        Job Counters
                Launched map tasks=1
                Data-local map tasks=1
                Total time spent by all maps in occupied slots (ms)=3939
                Total time spent by all reduces in occupied slots (ms)=0
                Total time spent by all map tasks (ms)=3939
                Total vcore-milliseconds taken by all map tasks=3939
                Total megabyte-milliseconds taken by all map tasks=4033536
        Map-Reduce Framework
                Map input records=5
                Map output records=5
                Input split bytes=129
                Spilled Records=0
                Failed Shuffles=0
                Merged Map outputs=0
                GC time elapsed (ms)=43
                CPU time spent (ms)=930
                Physical memory (bytes) snapshot=141643776
                Virtual memory (bytes) snapshot=2061561856
                Total committed heap usage (bytes)=127795200
        File Input Format Counters
                Bytes Read=0
        File Output Format Counters
                Bytes Written=0
18/06/26 14:29:41 INFO mapreduce.ExportJobBase: Transferred 282 bytes in 17.059 seconds (16.5308 bytes/sec)
18/06/26 14:29:41 INFO mapreduce.ExportJobBase: Exported 5 records.

```
mysql> show tables;                                      +-------------------+
| Tables_in_simplidb |
+-------------------+
| Person            |
| student           |
+-------------------+
2 rows in set (0.00 sec)

mysql> select * from simplidb.student;
+------+-------+--------+--------------+---------------+
| id   | fname | lname  | area         | city          |
+------+-------+--------+--------------+---------------+
|    1 | Shyam | Ram    | Patna        | Bihar         |
|    2 | Tanya | Priya  | Whitefiled   | Bangalore     |
|    3 | James | Brown  | New York     | United States |
|    4 | Jhon  | Miller | Los Angeles  | United States |
|  789 | a     | b      | c            | d             |
+------+-------+--------+--------------+---------------+
5 rows in set (0.00 sec)
```

Task2

```
[acadgild@localhost ~]$ sqoop import  --connect jdbc:mysql://localhost/simplidb --username root -P --
query 'select * from student where id = 3 and $CONDITIONS' --target-dir /sqooptesting5 -m 1
18/06/26 15:22:06 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
Enter password:
18/06/26 15:22:17 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/06/26 15:22:17 INFO tool.CodeGenTool: Beginning code generation
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/impl/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.class]
SLF4J: Found binding in [jar:file:/home/acadgild/install/hive/apache-hive-2.3.2-bin/lib/log4j-slf4j-
impl-2.6.2.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]
Tue Jun 26 15:22:17 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 setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.
18/06/26 15:22:18 INFO manager.SqlManager: Executing SQL statement: select * from student where
id = 3 and  (1 = 0)
18/06/26 15:22:18 INFO manager.SqlManager: Executing SQL statement: select * from student where
id = 3 and  (1 = 0)
18/06/26 15:22:18 INFO manager.SqlManager: Executing SQL statement: select * from student where
id = 3 and  (1 = 0)
18/06/26 15:22:18 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /home/acadgild/install/
hadoop/hadoop-2.6.5
Note: /tmp/sqoop-acadgild/compile/cbaecc782902d13f3421c45baf88f23d/QueryResult.java uses or
overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
18/06/26 15:22:20 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-acadgild/compile/
cbaecc782902d13f3421c45baf88f23d/QueryResult.jar
18/06/26 15:22:20 INFO mapreduce.ImportJobBase: Beginning query import.
```

18/06/26 15:22:20 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/06/26 15:22:21 INFO Configuration.deprecation: mapred.jar is deprecated. Instead, use mapreduce.job.jar
18/06/26 15:22:21 INFO Configuration.deprecation: mapred.map.tasks is deprecated. Instead, use mapreduce.job.maps
18/06/26 15:22:21 INFO client.RMProxy: Connecting to ResourceManager at localhost/127.0.0.1:8032
Tue Jun 26 15:22:23 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 setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.
18/06/26 15:22:23 INFO db.DBInputFormat: Using read commited transaction isolation
18/06/26 15:22:23 INFO mapreduce.JobSubmitter: number of splits:1
18/06/26 15:22:23 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1530000379560_0006
18/06/26 15:22:24 INFO impl.YarnClientImpl: Submitted application application_1530000379560_0006
18/06/26 15:22:24 INFO mapreduce.Job: The url to track the job: http://localhost:8088/proxy/application_1530000379560_0006/
18/06/26 15:22:24 INFO mapreduce.Job: Running job: job_1530000379560_0006
18/06/26 15:22:32 INFO mapreduce.Job: Job job_1530000379560_0006 running in uber mode : false
18/06/26 15:22:32 INFO mapreduce.Job: map 0% reduce 0%
18/06/26 15:22:38 INFO mapreduce.Job: map 100% reduce 0%
18/06/26 15:22:38 INFO mapreduce.Job: Job job_1530000379560_0006 completed successfully
18/06/26 15:22:38 INFO mapreduce.Job: Counters: 30
    File System Counters
        FILE: Number of bytes read=0
        FILE: Number of bytes written=127556
        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=37
        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)=3923
        Total time spent by all reduces in occupied slots (ms)=0
        Total time spent by all map tasks (ms)=3923
        Total vcore-milliseconds taken by all map tasks=3923
        Total megabyte-milliseconds taken by all map tasks=4017152
    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)=47
        CPU time spent (ms)=1150
        Physical memory (bytes) snapshot=144080896
        Virtual memory (bytes) snapshot=2063667200
        Total committed heap usage (bytes)=127795200
    File Input Format Counters

```
            Bytes Read=0
        File Output Format Counters
            Bytes Written=37
18/06/26 15:22:38 INFO mapreduce.ImportJobBase: Transferred 37 bytes in 17.0951 seconds (2.1644
bytes/sec)
18/06/26 15:22:38 INFO mapreduce.ImportJobBase: Retrieved 1 records.
```
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost ~]$ hdfs dfs -cat /sqooptesting5/part-m-0000018/06/26 15:22:51 WARN
util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java
classes where applicable

3,James,Brown,New York,United States

using the export command we can transfer this file to RDBMS file system (as done for task1)