

The screenshot shows a Windows desktop with a single window titled "MyHadoop 2.6\_1.1 [Running] - Oracle VM VirtualBox". The window's menu bar includes "File", "Machine", "View", "Input", "Devices", and "Help". The main area of the window contains a terminal window titled "Acadgild" with the prompt "acadgild@localhost:~". The terminal window has its own menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help".

Inside the terminal, the following text is displayed:

```

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use assignment6;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

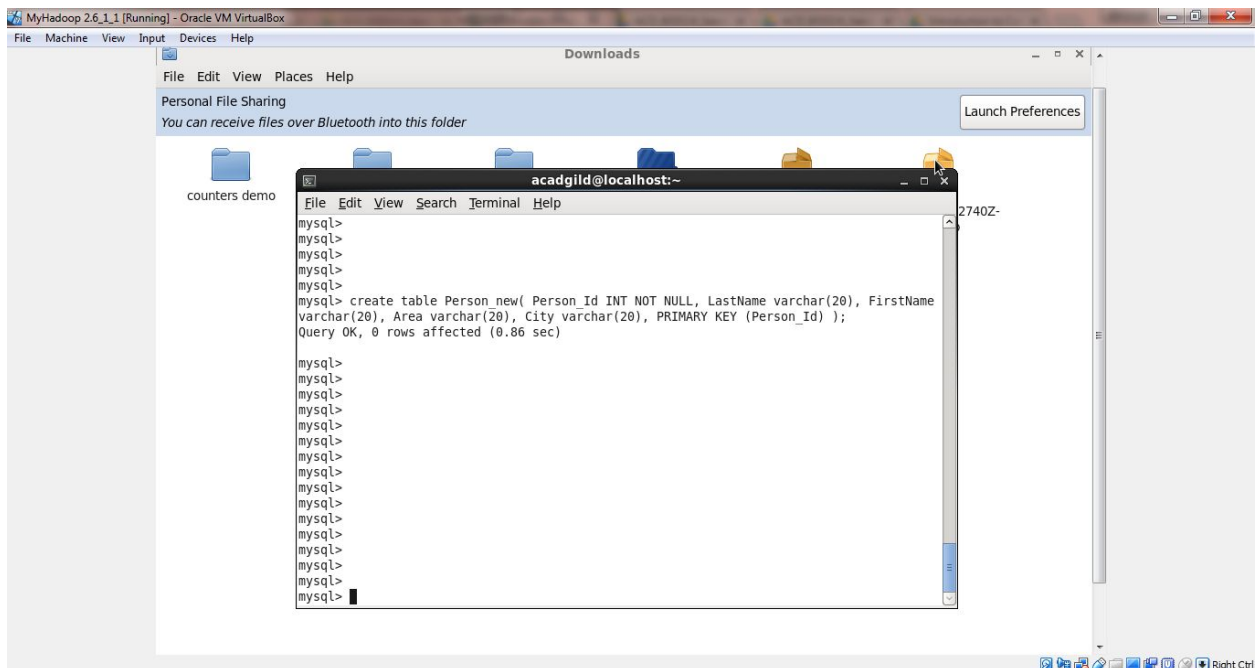
Database changed
mysql> select * from Person;
+-----+-----+-----+-----+-----+
| person_id | lname   | fname | area       | city       |
+-----+-----+-----+-----+-----+
| 1         | Abhishek | Ram   | Patna      | Bihar      |
| 2         | Tanya   | Priya | Whitefield | Bangalore  |
| 3         | James   | Brown | New York   | United States |
| 4         | John    | Miller | Los Angeles | United States |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> █
  
```

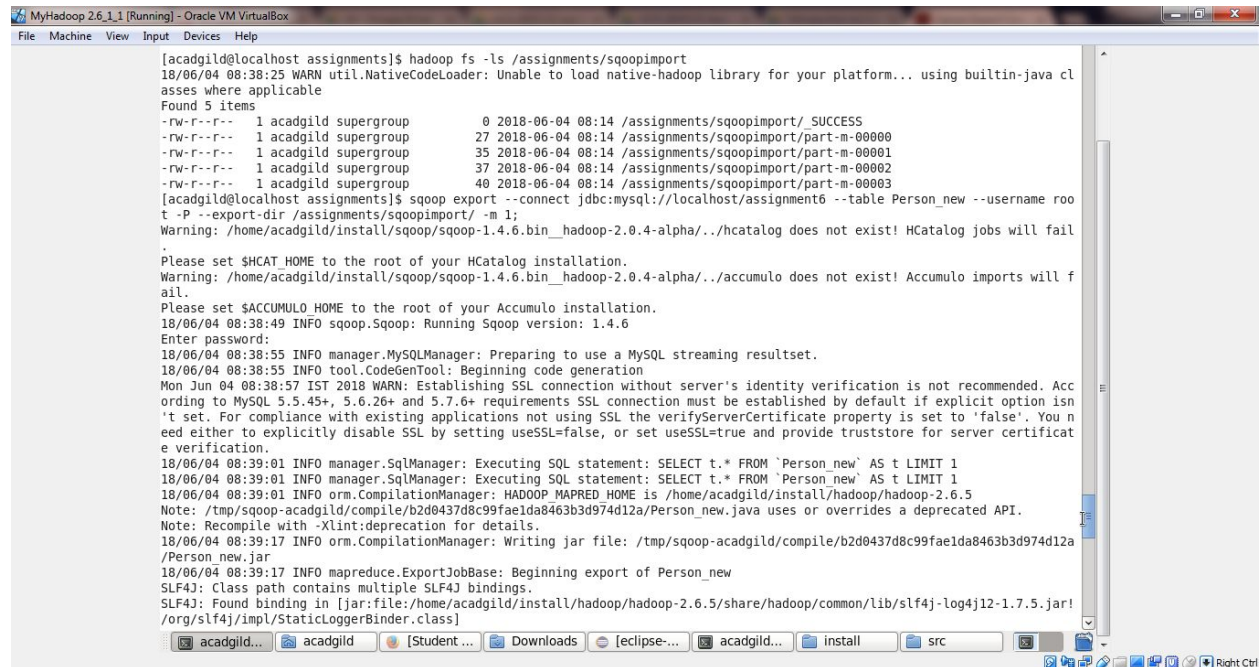
The terminal window has a vertical scrollbar on the right side. The Windows taskbar at the bottom of the screen shows several icons, including the Start button, taskbar search, and various application icons.

Use Sqoop tool to export data present in SQOOP\_OUT folder made while demo of Import table

Created a new table Person\_new to export data from hdfs

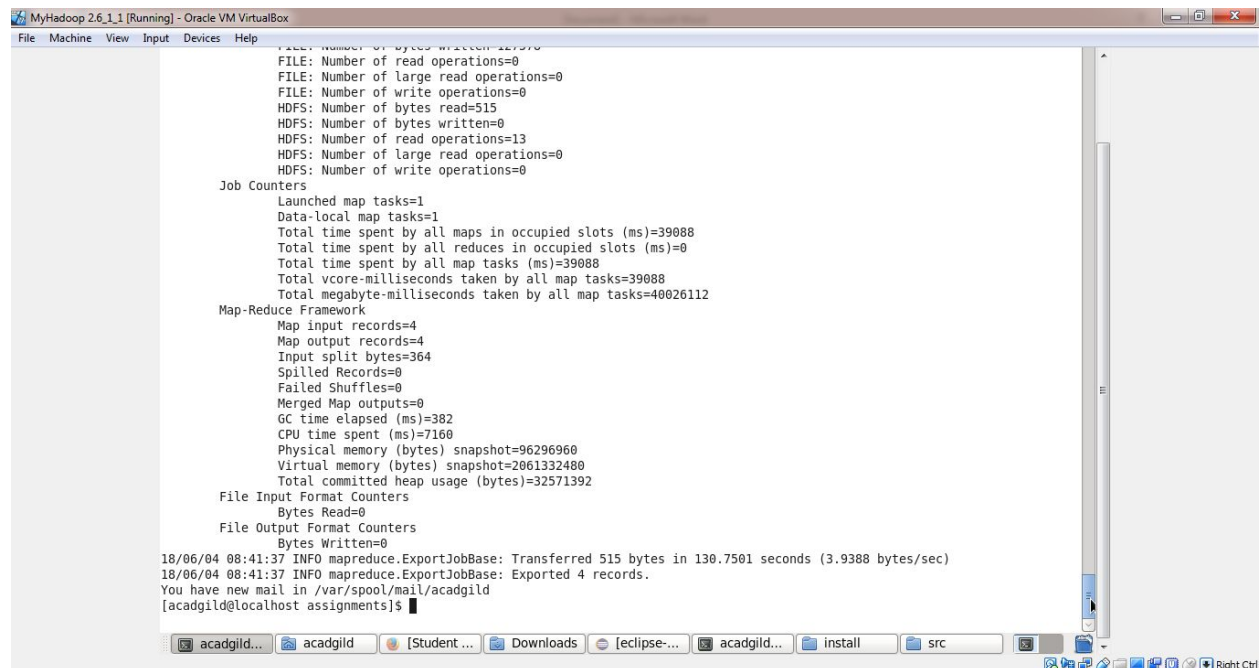


## Export command -



```
[acagild@localhost assignments]$ hadoop fs -ls /assignments/sqoopimport
18/06/04 08:38:25 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 5 items
-rw-r--r-- 1 acagild supergroup 0 2018-06-04 08:14 /assignments/sqoopimport/_SUCCESS
-rw-r--r-- 1 acagild supergroup 27 2018-06-04 08:14 /assignments/sqoopimport/part-m-00000
-rw-r--r-- 1 acagild supergroup 35 2018-06-04 08:14 /assignments/sqoopimport/part-m-00001
-rw-r--r-- 1 acagild supergroup 37 2018-06-04 08:14 /assignments/sqoopimport/part-m-00002
-rw-r--r-- 1 acagild supergroup 40 2018-06-04 08:14 /assignments/sqoopimport/part-m-00003
[acagild@localhost assignments]$ sqoop export --connect jdbc:mysql://localhost/assignment6 --table Person_new --username roo
t -P --export-dir /assignments/sqoopimport/ -m 1;
Warning: /home/acagild/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/acagild/install/sqoop/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/./accumulo does not exist! Accumulo imports will f
ail.
Please set $ACCUMULO_HOME to the root of your Accumulo installation.
18/06/04 08:38:49 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
Enter password:
18/06/04 08:38:55 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/06/04 08:38:55 INFO tool.CodeGenTool: Beginning code generation
Mon Jun 04 08:38:57 IST 2018 WARN: Establishing SSL connection without server's identity verification is not recommended. Acc
ording 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 n
eed either to explicitly disable SSL by setting useSSL=false, or set useSSL=true and provide truststore for server certificat
e verification.
18/06/04 08:39:01 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person_new' AS t LIMIT 1
18/06/04 08:39:01 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person_new' AS t LIMIT 1
18/06/04 08:39:01 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /home/acagild/install/hadoop/hadoop-2.6.5
Note: /tmp/sqoop-acagild/compile/b2d0437d8c99fae1da8463b3d974d12a/Person_new.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
18/06/04 08:39:17 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-acagild/compile/b2d0437d8c99fae1da8463b3d974d12a
/Person_new.jar
18/06/04 08:39:17 INFO mapreduce.ExportJobBase: Beginning export of Person_new
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acagild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!
/org/slf4j/impl/StaticLoggerBinder.class]
```

## Export – output - : exported 4 records



```
FILE: Number of bytes written=1370
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=515
HDFS: Number of bytes written=0
HDFS: Number of read operations=13
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)=39088
  Total time spent by all reduces in occupied slots (ms)=0
  Total time spent by all map tasks (ms)=39088
  Total vcore-milliseconds taken by all map tasks=39088
  Total megabyte-milliseconds taken by all map tasks=40026112
Map-Reduce Framework
  Map input records=4
  Map output records=4
  Input split bytes=364
  Spilled Records=0
  Failed Shuffles=0
  Merged Map outputs=0
  GC time elapsed (ms)=382
  CPU time spent (ms)=7160
  Physical memory (bytes) snapshot=96296960
  Virtual memory (bytes) snapshot=2061332480
  Total committed heap usage (bytes)=32571392
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=0
18/06/04 08:41:37 INFO mapreduce.ExportJobBase: Transferred 515 bytes in 130.7501 seconds (3.9388 bytes/sec)
18/06/04 08:41:37 INFO mapreduce.ExportJobBase: Exported 4 records.
You have new mail in /var/spool/mail/acagild
[acagild@localhost assignments]$
```

Data in table – Person\_new

The screenshot shows a terminal window titled "MyHadoop 2.6\_1\_1 [Running] - Oracle VM VirtualBox". The terminal displays a series of MySQL commands and their outputs:

```
mysql> use your_mysql_server_version_for_the_right_syntax_to_use_new= new( person_new);
)' at line 7
mysql>
mysql>
mysql>
mysql>
mysql> create table Person_new( Person_Id INT NOT NULL, LastName varchar(20), FirstName
varchar(20), Area varchar(20), City varchar(20), PRIMARY KEY (Person_Id) );
Query OK, 0 rows affected (0.86 sec)

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> select * from Person_new;
```

Person_Id	LastName	FirstName	Area	City
1	Abhishek	Ram	Patna	Bihar
2	Tanya	Priya	Whitefield	Bangalore
3	James	Brown	New York	United States
4	John	Miller	Los Angeles	United States

```
4 rows in set (0.01 sec)

mysql>
```

At the bottom of the screen, there are several taskbar icons and window titles, including "acadgild...", "[Student ...]", "Downloads", "[eclipse-...", "acadgild...", "install", and "src".

## Task2

Use Sqoop tool to export data present in SQOOPOUT folder made while demo of Import table with parameter person\_id =3.

Export command:

```
MyHadoop 2.6.1.1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[acacgild@localhost assignments]$ hadoop fs -ls /assignments/sqoopimport/
18/06/04 10:44:02 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java cl
asses where applicable
Found 5 items
-rw-r--r-- 1 acacgild supergroup 0 2018-06-04 08:14 /assignments/sqoopimport/_SUCCESS
-rw-r--r-- 1 acacgild supergroup 27 2018-06-04 08:14 /assignments/sqoopimport/part-m-00000
-rw-r--r-- 1 acacgild supergroup 35 2018-06-04 08:14 /assignments/sqoopimport/part-m-00001
-rw-r--r-- 1 acacgild supergroup 37 2018-06-04 08:14 /assignments/sqoopimport/part-m-00002
-rw-r--r-- 1 acacgild supergroup 40 2018-06-04 08:14 /assignments/sqoopimport/part-m-00003
[acacgild@localhost assignments]$ sqoop export --connect jdbc:mysql://localhost/assignment6 --table Person_3 --username root
--export-dir /assignments/sqoopimport/part-m-00002
Warning: /home/acacgild/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/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.
18/06/04 10:45:14 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
Enter password:
18/06/04 10:45:19 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.
18/06/04 10:45:19 INFO tool.CodeGenTool: Beginning code generation
Mon Jun 04 10:45:20 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.
18/06/04 10:45:25 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person_3' AS t LIMIT 1
18/06/04 10:45:25 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM 'Person_3' AS t LIMIT 1
18/06/04 10:45:25 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /home/acacgild/install/hadoop/hadoop-2.6.5
Note: /tmp/sqoop-acacgild/compile/42bfbcb20060efcafd4ba00e2a7c/Person_3.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
18/06/04 10:45:39 INFO orm.CompilationManager: Writing jar file: /tmp/sqoop-acacgild/compile/42bfbcb20060efcafd4ba00e2a7c/Person_3.jar
18/06/04 10:45:39 INFO mapreduce.ExportJobBase: Beginning export of Person_3
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/home/acacgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
acacgild... acacgild [Student ... Downloads eclipse... acacgild... install src
```

Export output:- exported 1 records

```
MyHadoop 2.6.1.1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
FILE: Number of bytes read=0
FILE: Number of bytes written=510340
FILE: Number of read operations=0
FILE: Number of large read operations=0
FILE: Number of write operations=0
HDFS: Number of bytes read=745
HDFS: Number of bytes written=0
HDFS: Number of read operations=19
HDFS: Number of large read operations=0
HDFS: Number of write operations=0
Job Counters
  Launched map tasks=4
  Data-local map tasks=4
  Total time spent by all maps in occupied slots (ms)=609794
  Total time spent by all reduces in occupied slots (ms)=0
  Total time spent by all map tasks (ms)=609794
  Total vcore-milliseconds taken by all map tasks=609794
  Total megabyte-milliseconds taken by all map tasks=624429056
Map-Reduce Framework
  Map input records=1
  Map output records=1
  Input split bytes=631
  Spilled Records=0
  Failed Shuffles=0
  Merged Map outputs=0
  GC time elapsed (ms)=6977
  CPU time spent (ms)=26220
  Physical memory (bytes) snapshot=370745344
  Virtual memory (bytes) snapshot=8245329920
  Total committed heap usage (bytes)=130285568
File Input Format Counters
  Bytes Read=0
File Output Format Counters
  Bytes Written=0
18/06/04 10:49:59 INFO mapreduce.ExportJobBase: Transferred 745 bytes in 252.397 seconds (2.9517 bytes/sec)
18/06/04 10:49:59 INFO mapreduce.ExportJobBase: Exported 1 records.
You have new mail in /var/spool/mail/acacgild
[acacgild@localhost assignments]$
```

Exported data from table Person\_3

```
MyHadoop 2.6.1.1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> select * from Person_new;
+-----+-----+-----+-----+-----+
| Person_Id | LastName | FirstName | Area | City |
+-----+-----+-----+-----+-----+
| 1 | Abhishek | Ram | Patna | Bihar |
| 2 | Tanya | Priya | Whitefield | Bangalore |
| 3 | James | Brown | New York | United States |
| 4 | John | Miller | Los Angeles | United States |
+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> create table Person_3( Person_Id INT NOT NULL, LastName varchar(20), FirstName varchar(20), Area varchar(20), City var
char(20), PRIMARY KEY (Person_Id) );
Query OK, 0 rows affected (0.36 sec)

mysql> select * from Person_3
-> ;
+-----+-----+-----+-----+-----+
| Person_Id | LastName | FirstName | Area | City |
+-----+-----+-----+-----+-----+
| 3 | James | Brown | New York | United States |
+-----+-----+-----+-----+-----+
1 row in set (0.14 sec)

mysql>
```