

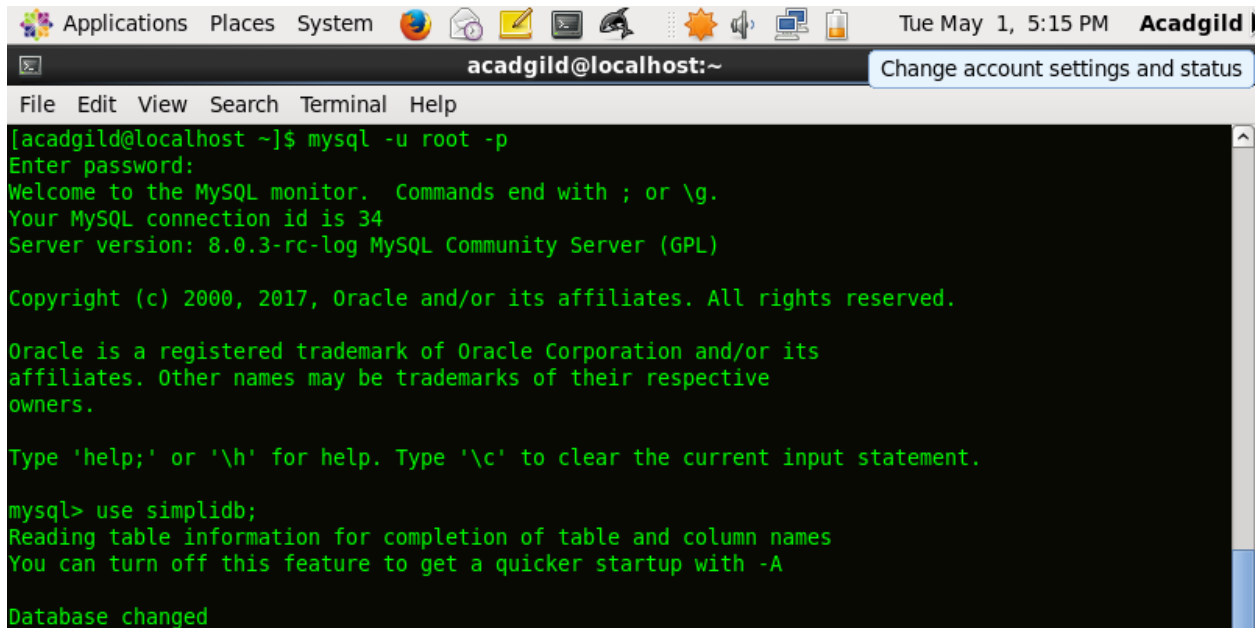
To StartMysql shell, enter command

```
mysql -u root -p
```

Then enter the password.

My demo table for this assignment is in simplidb database. Entering command:

```
use simplidb;
```

A screenshot of a Linux terminal window. The window title is 'acadgild@localhost:~'. The top bar shows system icons and the date 'Tue May 1, 5:15 PM'. The terminal content shows the user running 'mysql -u root -p', entering a password, and being greeted by the MySQL monitor. The user then runs 'use simplidb;', and the terminal shows 'Database changed'.

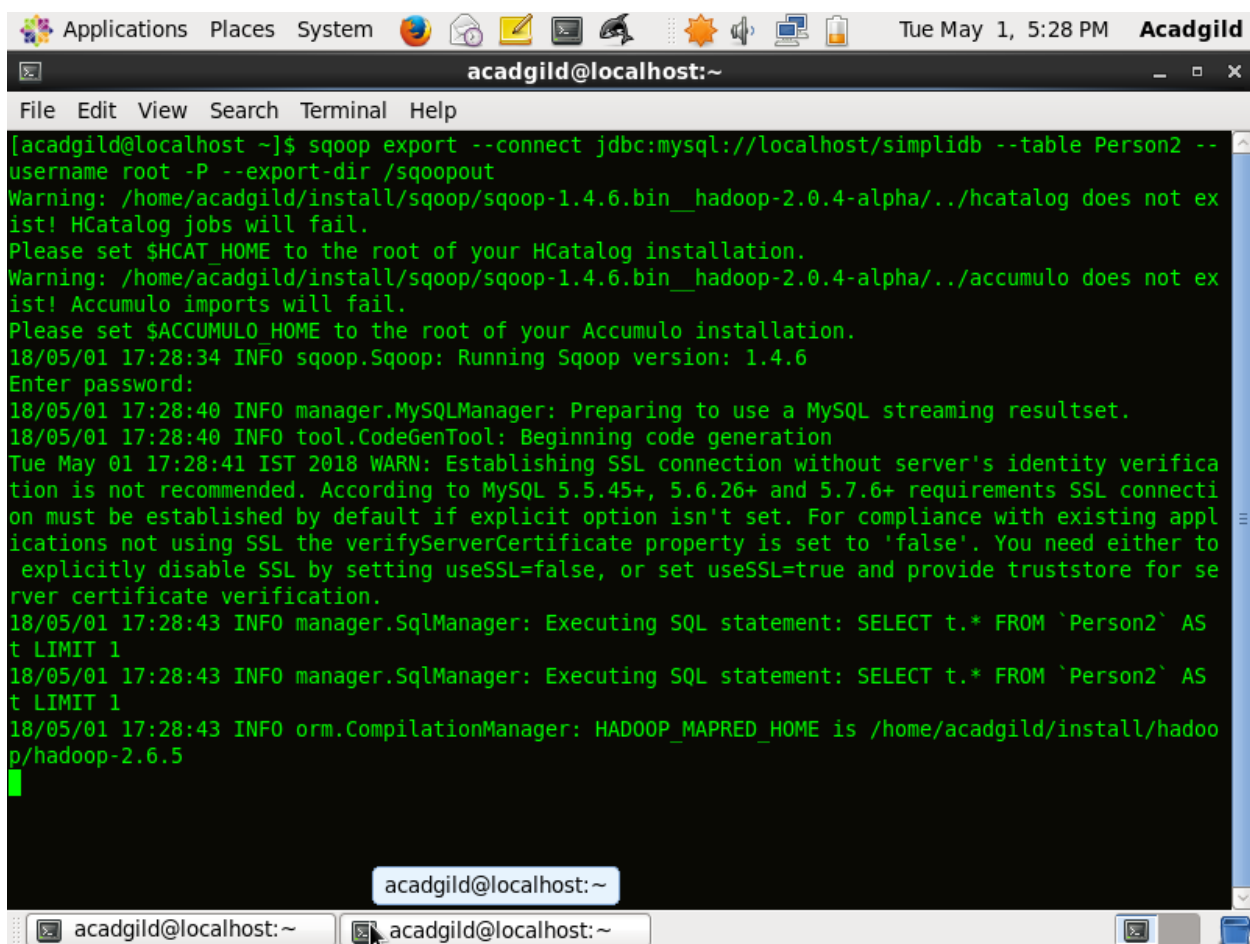
Creating a table for the assignment as 'Person2' to hold the exported data

```
mysql> create table Person2(person_id INT NOT NULL, lname varchar(20), fname varchar(20), area va  
rchar(20), city varchar(20), PRIMARY KEY (person_id));  
Query OK, 0 rows affected (0.19 sec)
```

Using sqoop export command to store data in Person2 table from /sqoopout folder made while demo of import table. Typical command is:

```
$ sqoop export \  
--connect jdbc:mysql://localhost/db \  
--username root \  
--table employee \  
--export-dir /emp/emp_data
```

Then enter password to connect to Mysql.

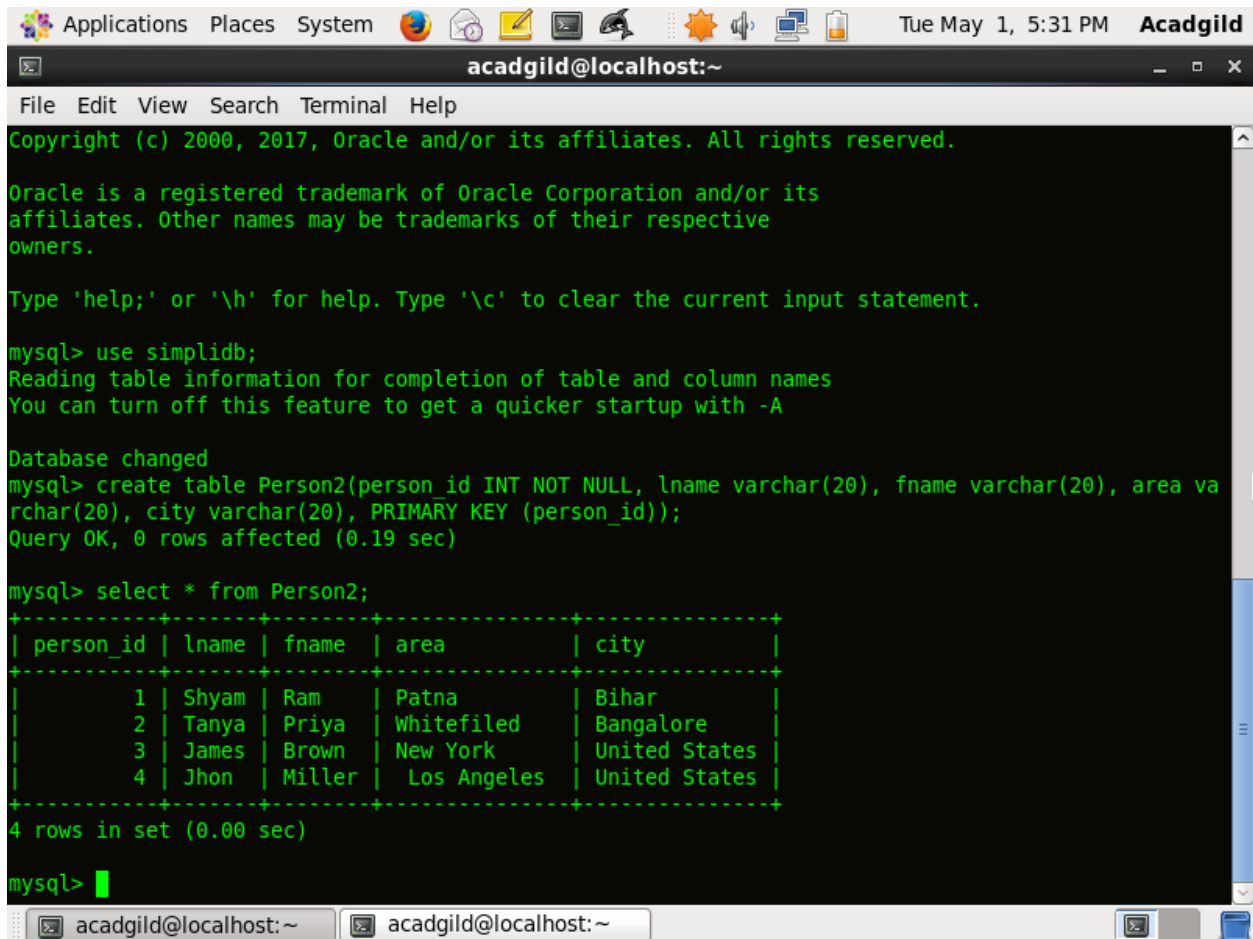


The screenshot shows a terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal output shows the execution of the command: `[acadgild@localhost ~]$ sqoop export --connect jdbc:mysql://localhost/simplidb --table Person2 --username root -P --export-dir /sqoopout`. It displays several warnings about HCatalog and Accumulo not being installed, followed by the execution of the SQL statement `SELECT t.* FROM 'Person2' AS t LIMIT 1`. The terminal also shows the version of sqoop (1.4.6) and the path to the Hadoop installation. The prompt `acadgild@localhost:~` is visible at the bottom of the terminal window.

```
[acadgild@localhost ~]$ sqoop export --connect jdbc:mysql://localhost/simplidb --table Person2 --  
username root -P --export-dir /sqoopout  
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/./hcatalog does not ex  
ist! 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 ex  
ist! Accumulo imports will fail.  
Please set $ACCUMULO_HOME to the root of your Accumulo installation.  
18/05/01 17:28:34 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6  
Enter password:  
18/05/01 17:28:40 INFO manager.MySQLManager: Preparing to use a MySQL streaming resultset.  
18/05/01 17:28:40 INFO tool.CodeGenTool: Beginning code generation  
Tue May 01 17:28:41 IST 2018 WARN: Establishing SSL connection without server's identity verifica  
tion is not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connecti  
on must be established by default if explicit option isn't set. For compliance with existing appl  
ications 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 se  
rver certificate verification.  
18/05/01 17:28:43 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `Person2` AS  
t LIMIT 1  
18/05/01 17:28:43 INFO manager.SqlManager: Executing SQL statement: SELECT t.* FROM `Person2` AS  
t LIMIT 1  
18/05/01 17:28:43 INFO orm.CompilationManager: HADOOP_MAPRED_HOME is /home/acadgild/install/hadoo  
p/hadoop-2.6.5  
acadgild@localhost:~
```

Lets verify the Person2 table from mysql command line by entering command :

Select * from Person2;



The screenshot shows a terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar at the top (Applications, Places, System, Tue May 1, 5:31 PM, Acadgild). The terminal displays the following text:

```
Copyright (c) 2000, 2017, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
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 simplidb;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

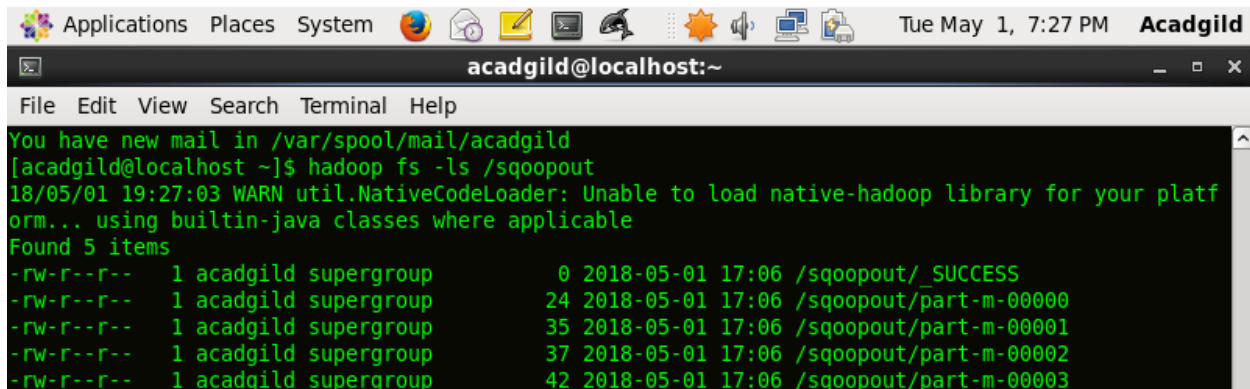
Database changed
mysql> create table Person2(person_id INT NOT NULL, lname varchar(20), fname varchar(20), area va
rchar(20), city varchar(20), PRIMARY KEY (person_id));
Query OK, 0 rows affected (0.19 sec)

mysql> select * from Person2;
+-----+-----+-----+-----+-----+
| 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 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

Data has been successfully exported from/sqoopout to Person2 table

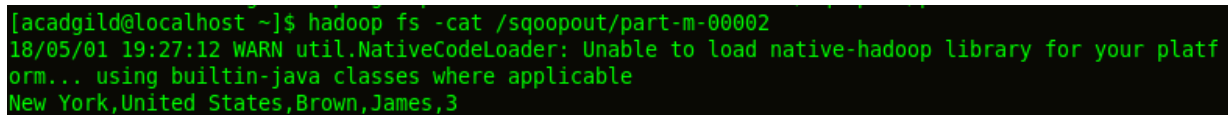
Lets check the contents of /sqoopout folder

A terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar (Applications, Places, System, Tue May 1, 7:27 PM, Acadgild). The terminal shows the command 'hadoop fs -ls /sqoopout' and its output, which lists five files in the /sqoopout directory. The files are: _SUCCESS (0 bytes), part-m-00000 (24 bytes), part-m-00001 (35 bytes), part-m-00002 (37 bytes), and part-m-00003 (42 bytes). All files are owned by 'acadgild' and 'supergroup' and were created on '2018-05-01 17:06'.

```
acadmild@localhost:~$ hadoop fs -ls /sqoopout
18/05/01 19:27:03 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
orm... using builtin-java classes where applicable
Found 5 items
-rw-r--r--  1 acadgild supergroup      0 2018-05-01 17:06 /sqoopout/_SUCCESS
-rw-r--r--  1 acadgild supergroup    24 2018-05-01 17:06 /sqoopout/part-m-00000
-rw-r--r--  1 acadgild supergroup    35 2018-05-01 17:06 /sqoopout/part-m-00001
-rw-r--r--  1 acadgild supergroup    37 2018-05-01 17:06 /sqoopout/part-m-00002
-rw-r--r--  1 acadgild supergroup    42 2018-05-01 17:06 /sqoopout/part-m-00003
```

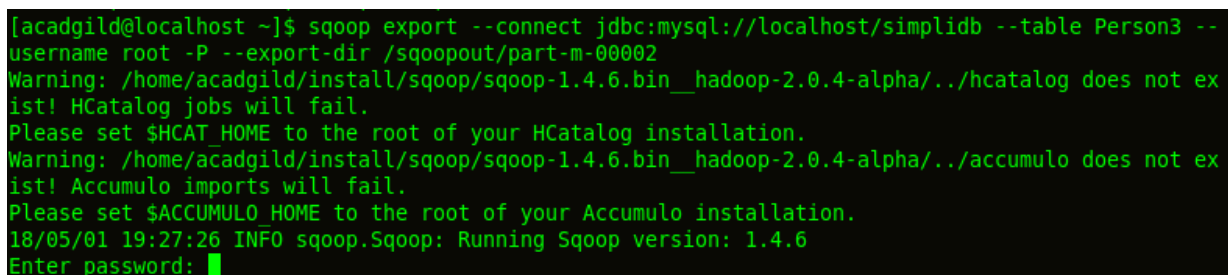
As one can see each record is stored in a different mapped output file.

Data for record where person_id=3 is stored in part-m-00002 file.

A terminal window showing the command 'hadoop fs -cat /sqoopout/part-m-00002' and its output. The output is a single line of text: 'New York,United States,Brown,James,3'.

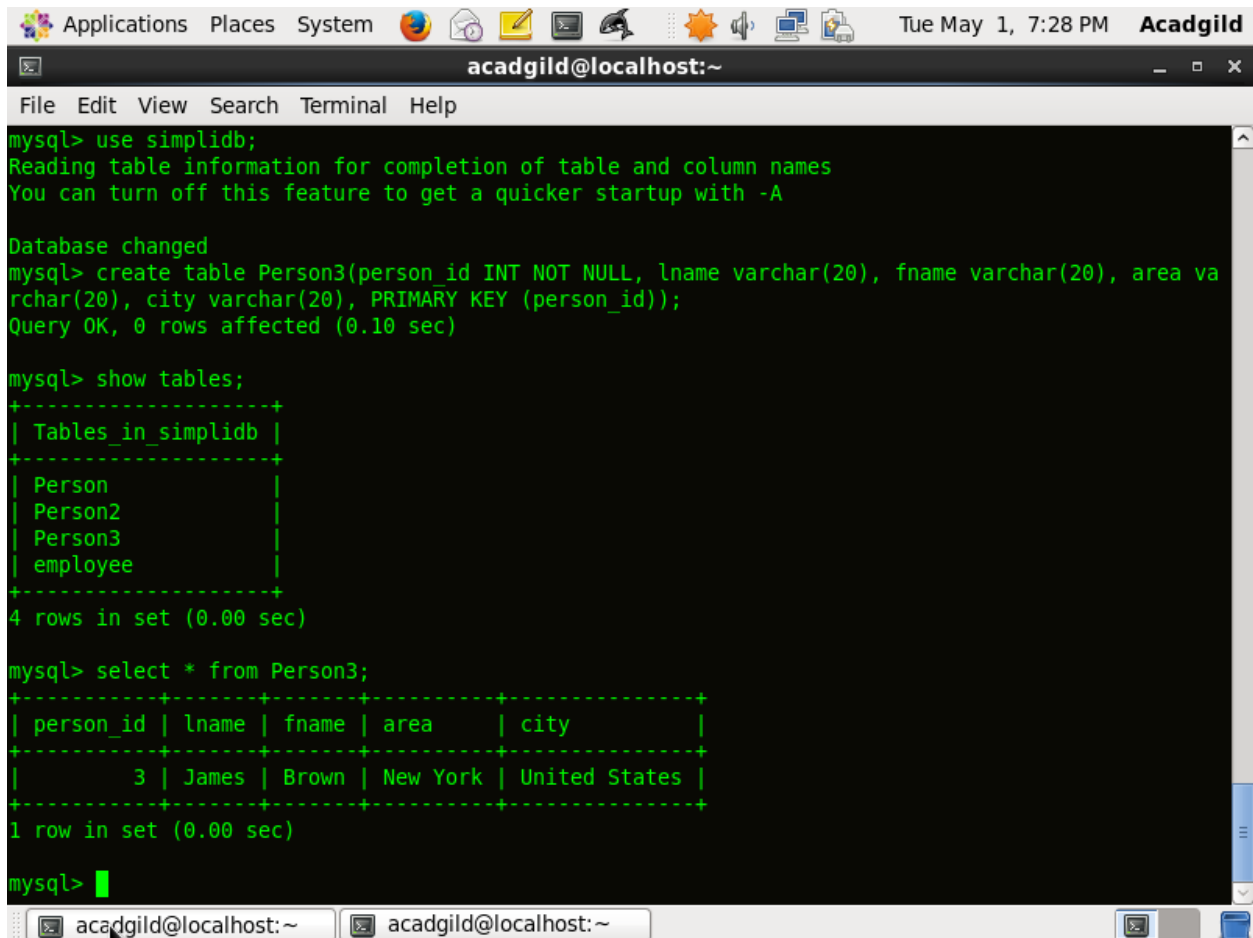
```
acadmild@localhost:~$ hadoop fs -cat /sqoopout/part-m-00002
18/05/01 19:27:12 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your plat
orm... using builtin-java classes where applicable
New York,United States,Brown,James,3
```

Exporting the file part-m-00002 to aonther table Person3 with same fields as of Person2

A terminal window showing the command 'sqoop export --connect jdbc:mysql://localhost/simplidb --table Person3 --username root -P --export-dir /sqoopout/part-m-00002'. The output shows several warnings about HCatalog and Accumulo not being installed, followed by the version information for sqoop (1.4.6) and a prompt for the password.

```
acadmild@localhost:~$ sqoop export --connect jdbc:mysql://localhost/simplidb --table Person3 --
username root -P --export-dir /sqoopout/part-m-00002
Warning: /home/acadgild/install/sqoop/sqoop-1.4.6.bin__hadoop-2.0.4-alpha/./hcatalog does not ex
ist! 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 ex
ist! Accumulo imports will fail.
Please set $ACCUMULO HOME to the root of your Accumulo installation.
18/05/01 19:27:26 INFO sqoop.Sqoop: Running Sqoop version: 1.4.6
Enter password: 
```

Lets check the contents of Person3 after export command



The screenshot shows a terminal window titled 'acadgild@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help) and a system bar at the top (Applications, Places, System, Tue May 1, 7:28 PM, Acadgild). The terminal displays the following MySQL commands and their outputs:

```
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> create table Person3(person_id INT NOT NULL, lname varchar(20), fname varchar(20), area va
rchar(20), city varchar(20), PRIMARY KEY (person_id));
Query OK, 0 rows affected (0.10 sec)

mysql> show tables;
+-----+
| Tables_in_simplidb |
+-----+
| Person              |
| Person2             |
| Person3             |
| employee            |
+-----+
4 rows in set (0.00 sec)

mysql> select * from Person3;
+-----+-----+-----+-----+-----+
| person_id | lname | fname | area   | city          |
+-----+-----+-----+-----+-----+
|          3 | James | Brown | New York | United States |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

The terminal window has two tabs at the bottom, both labeled 'acadgild@localhost:~'.