


# CST8288 OOP with Design Patterns

MySQL 5.7 Installation, User Account Configuration, Sample Database Installation

## 1) Get the MySQL Installer (All images in this handout copyright Oracle Corporation (2015a, 2015b))

- Go to: <http://dev.mysql.com/downloads/mysql/>
- Use this download link



MySQL Installer 5.7 for Windows

All MySQL Products. For All Windows Platforms. In One Package.

Starting with MySQL 5.8 the MySQL Installer package replaces the server-only MSI packages.

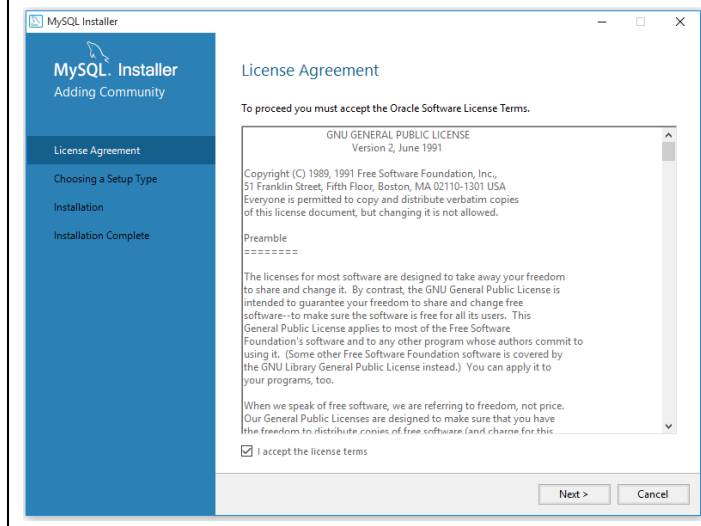
Windows (x86, 32-bit), MySQL Installer MSI

Download

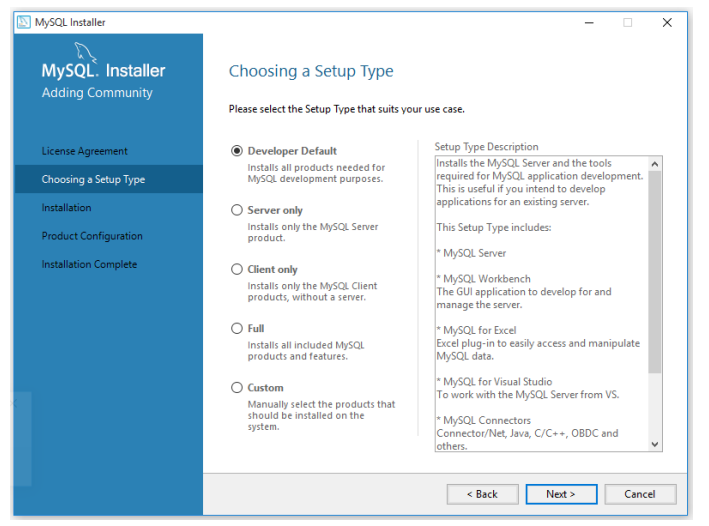
- Only the Windows version of MySQL will be supported
- If you are on Linux or MacOSX you should set up a Virtual Machine with Windows (See Algonquin Digital Resources for downloads)
- Use the Virtualized Windows for installing MySQL (and NetBeans and Apache Tomcat in later weeks).

- I recommend you download the full installer: mysql-installer-community-5.7.9.0.msi
- **Keep this file! You need it to uninstall MySQL if you decide to do so after this course.**
  - **The Installer is also the un-installer, do not loose this file.**
- Double-click on the downloaded mysql-installer-community-5.7.9.0.msi to start the installation.

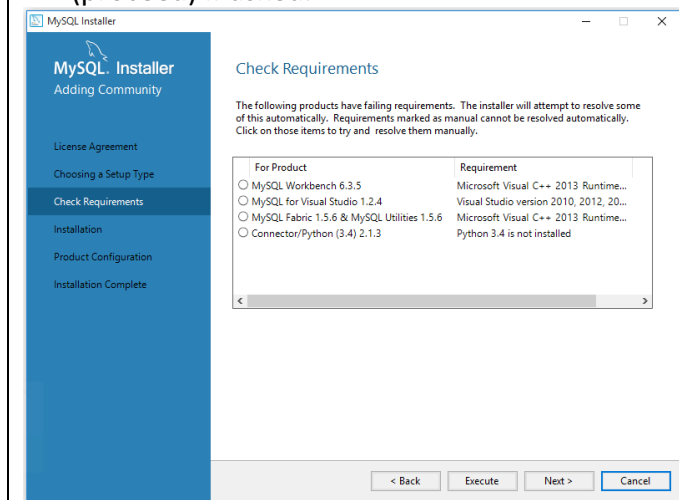
## 2) Accept the license agreement Click Next



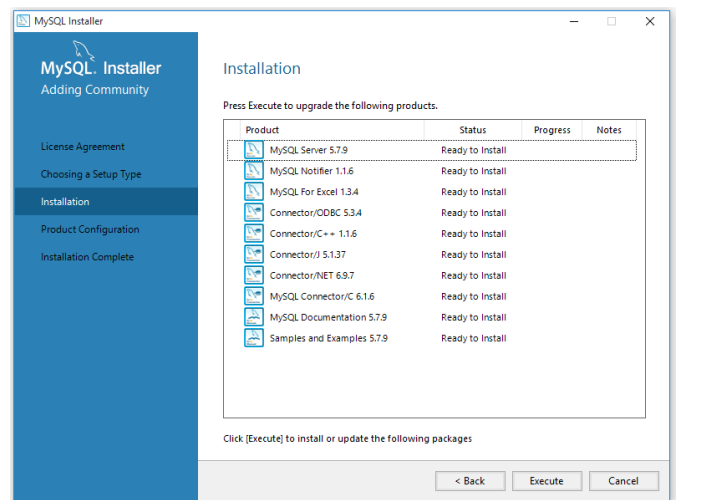
## 3) Select **Developer Default** for the installation Click Next



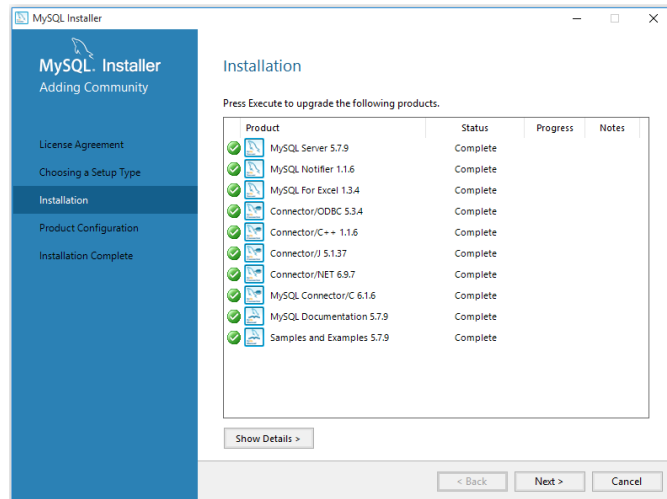
## 4) Check Requirements, Click Next, Click Yes (proceed) if asked.



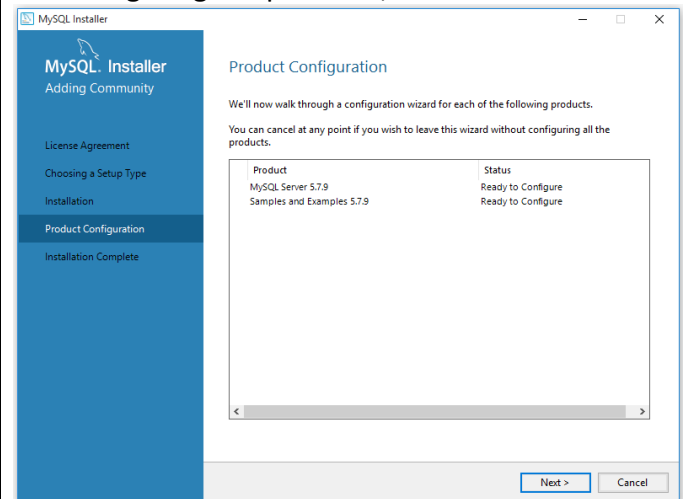
## 5) Click the Execute button to install



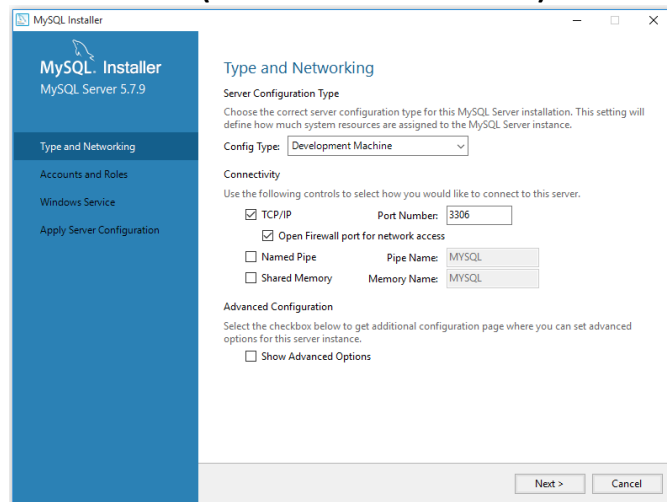
## 6) After the components have installed Click Next



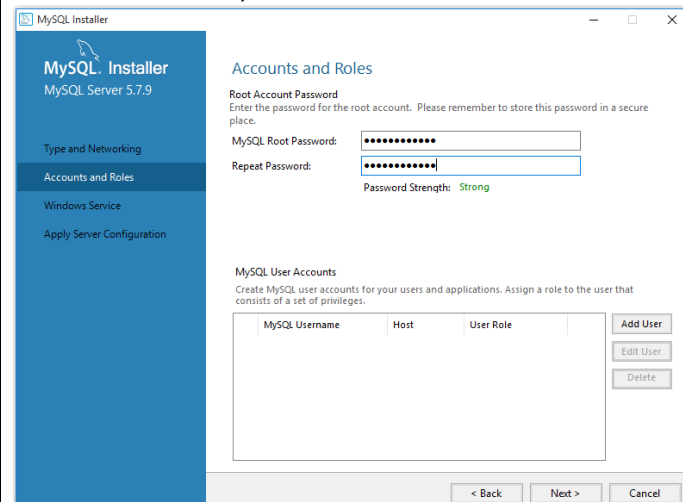
## 7) A configuration wizard will step through configuring the products, Click Next



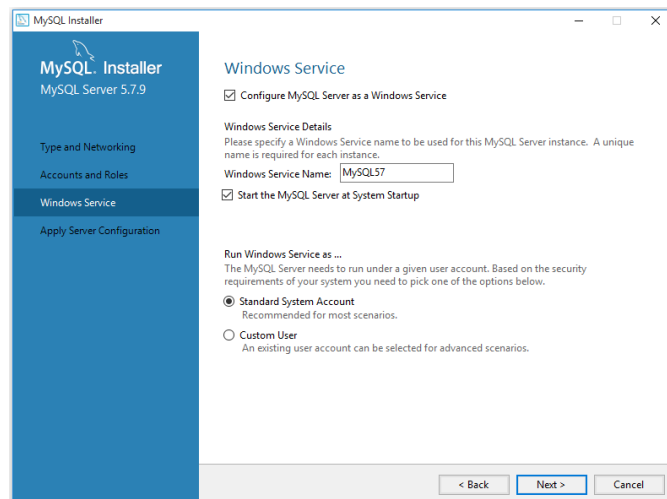
## 8) Type and Networking Dialog: Take the defaults, Click Next. (Note Port Number: 3306)



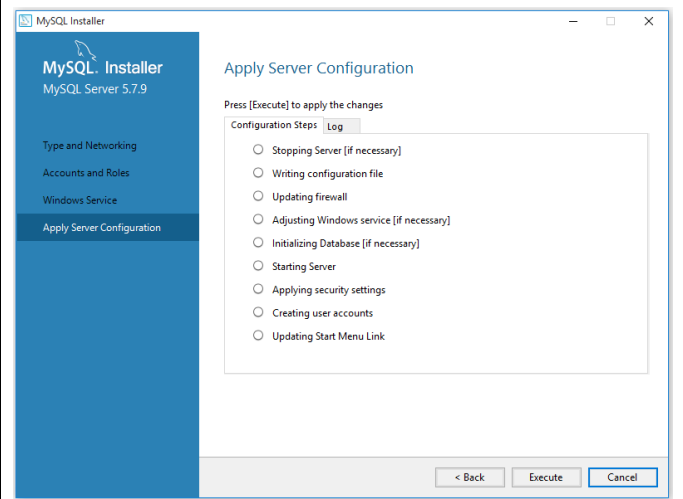
## 9) Accounts and Roles: Provide Root Password and write it down, Click Next



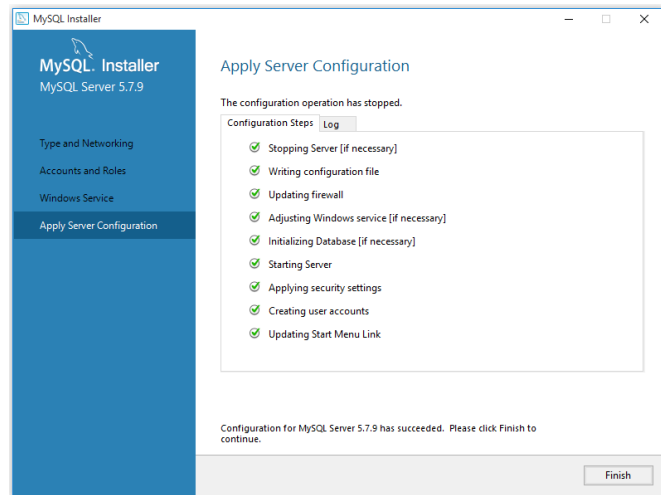
## 10) Windows Service: Accept the defaults and Click Next



## 11) Apply Server Configuration: Click Execute

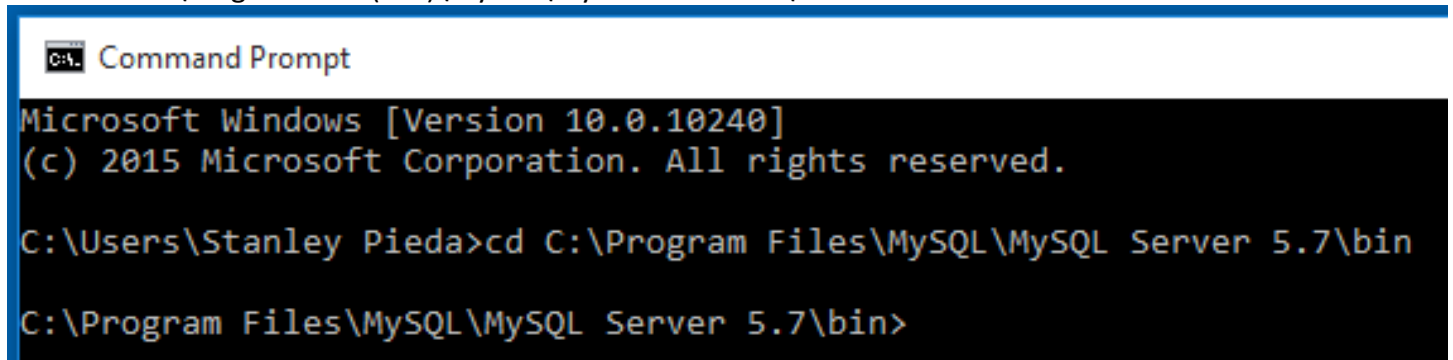


12) Apply Server Configuration:  
Click Finish



13) You can optionally install Samples and Examples if you would like but these are not required for our course. (Something like: Next, Check username and Next, Execute, Finish, Next, Finish)

- 14) Open a Command Prompt and using the cd command navigate to (depending if you have 64 or 32 bit OS)  
64-bit: C:\Program Files\MySQL\MySQL Server 5.7\bin  
32-bit: C:\Program Files (x86)\MySQL\MySQL Server 5.7\bin



```
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\Stanley Piedad>cd C:\Program Files\MySQL\MySQL Server 5.7\bin
C:\Program Files\MySQL\MySQL Server 5.7\bin>
```

Steps 13, 14, 15 come from Deitel and Deitel (2012) (page 1188)

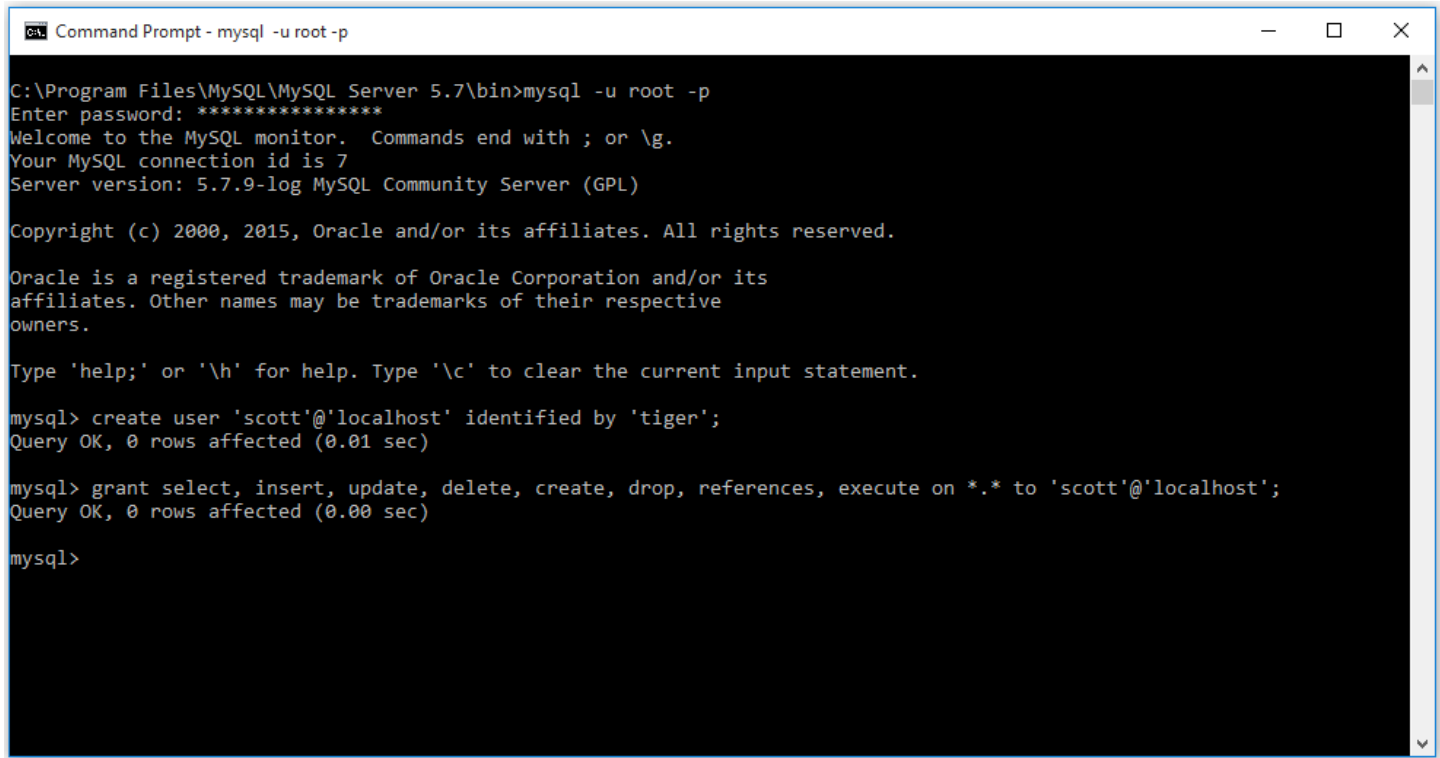
- 15) Use the mysql command line tool logging in as root:  
`mysql -u root -p`

(enter the root password)

- 16) Issue these commands to create a user account with username scott and password tiger  
`create user 'scott'@'localhost' identified by 'tiger';`

- 17) Grant privileges to user scott using the following command  
`grant select, insert, update, delete, create, drop, references,  
execute on *.* to 'scott'@'localhost';`

### Steps 13, 14 and 15 as a single screen capture



```
Command Prompt - mysql -u root -p

C:\Program Files\MySQL\MySQL Server 5.7\bin>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 7
Server version: 5.7.9-log MySQL Community Server (GPL)

Copyright (c) 2000, 2015, 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.

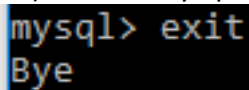
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create user 'scott'@'localhost' identified by 'tiger';
Query OK, 0 rows affected (0.01 sec)

mysql> grant select, insert, update, delete, create, drop, references, execute on *.* to 'scott'@'localhost';
Query OK, 0 rows affected (0.00 sec)

mysql>
```

18) Exit the mysql tool to logout of the root user account.

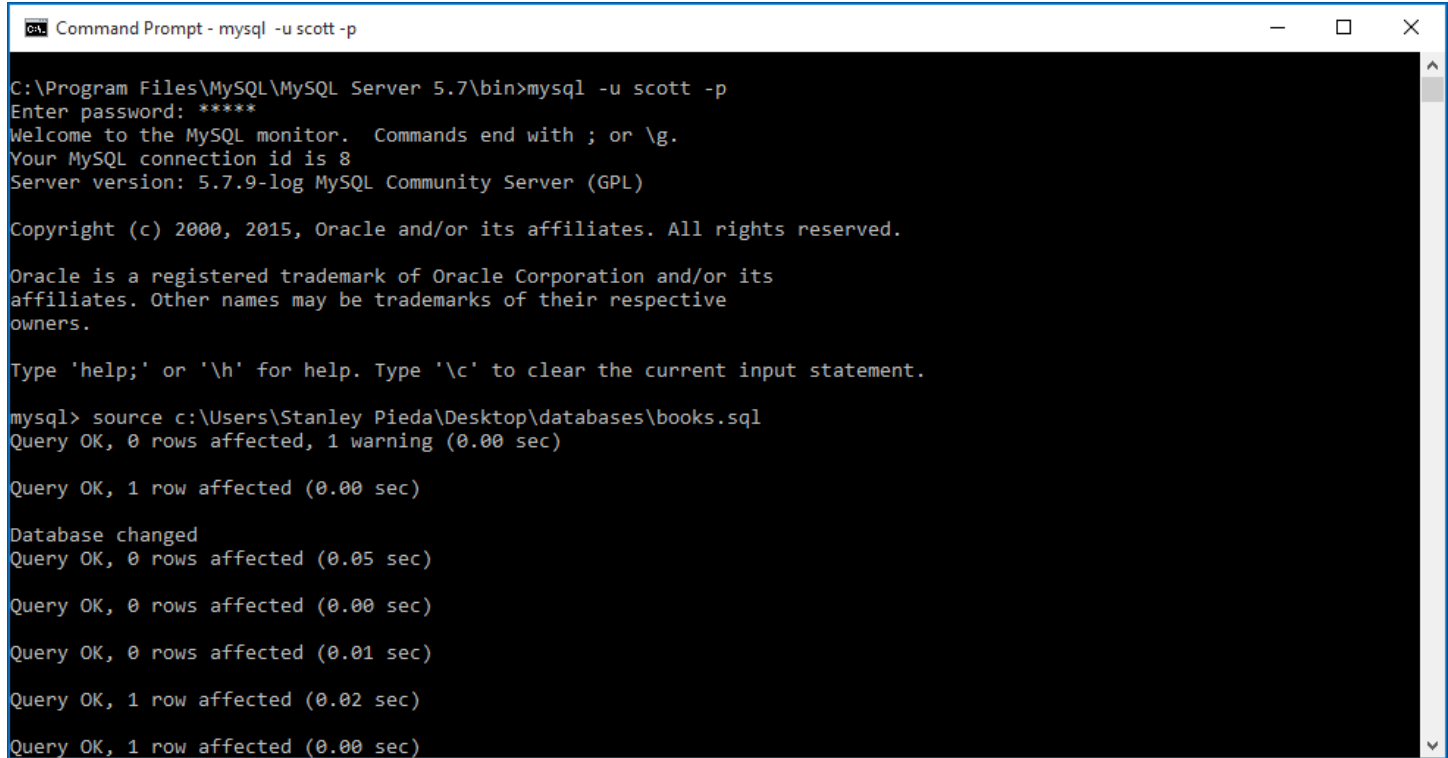


```
mysql> exit
Bye
```

19) Install Sample Database

- We will use the Books database provided by Deitel and Deitel (2012).
- You can download the code samples for Deitel and Deitel (2012) Chapter 28 from:  
[http://media.pearsoncmg.com/ph/esm/deitel/java\\_http9e/code\\_examples/code\\_examples.html](http://media.pearsoncmg.com/ph/esm/deitel/java_http9e/code_examples/code_examples.html)  
(This is 9<sup>th</sup> Edition Files, in 10<sup>th</sup> Edition Deitel removed the MySQL files)
- Within the zip archive for chapter 28 will be a file books.sql for use with MySQL.
- Extract the file to your desktop into a folder named databases, or another place you know the location of.
- Run the mysql command line tool  
mysql -h localhost -u scott -p (enter the password when prompted)
- Run the books.sql script file with this command (use your own path to the unzipped file):  
mysql> source C:\Users\Stanley Piedad\Desktop\databases\books.sql

Step 19 as screen capture:



```
Command Prompt - mysql -u scott -p

C:\Program Files\MySQL\MySQL Server 5.7\bin>mysql -u scott -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 5.7.9-log MySQL Community Server (GPL)

Copyright (c) 2000, 2015, 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> source c:\Users\Stanley Piedad\Desktop\databases\books.sql
Query OK, 0 rows affected, 1 warning (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Database changed
Query OK, 0 rows affected (0.05 sec)

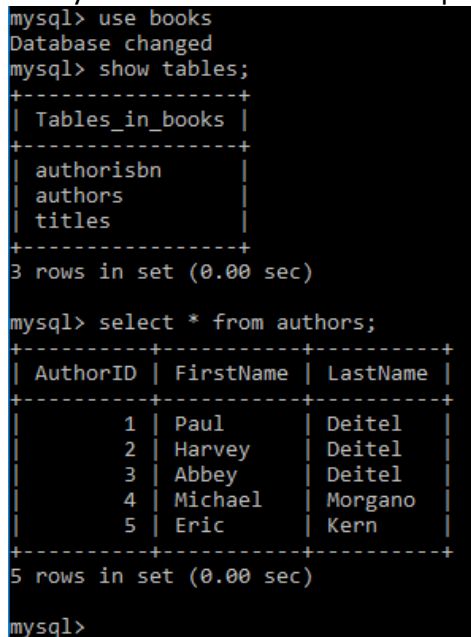
Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 1 row affected (0.02 sec)

Query OK, 1 row affected (0.00 sec)
```

20) Verify the database and data are present. (use books, then show tables; and select \* from authors;)

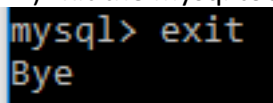


```
mysql> use books
Database changed
mysql> show tables;
+-----+
| Tables_in_books |
+-----+
| authorisbn      |
| authors         |
| titles          |
+-----+
3 rows in set (0.00 sec)

mysql> select * from authors;
+-----+-----+-----+
| AuthorID | FirstName | LastName |
+-----+-----+-----+
| 1        | Paul      | Deitel   |
| 2        | Harvey    | Deitel   |
| 3        | Abbey     | Deitel   |
| 4        | Michael   | Morgano  |
| 5        | Eric      | Kern     |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

21) Exit the mysql tool to logout of the scott user account.



```
mysql> exit
Bye
```

## Sources Cited

Deitel, Paul, Harvey Deitel. (2012). CST8110 Java How to Program (early objects) 9e, 9th Edition. Pearson Learning Solutions. Chapter 28 pp 1171-1234

Oracle Corporation. (2015a). Download MySQL Community Server. [webpage]. Retrieved from <http://dev.mysql.com/downloads/mysql/>

Oracle Corporation. (2015b). MySQL installation program. [software]. Screen shots taken during software installation of mysql-installer-community-5.7.9.0.msi on Microsoft Windows 10 operating system.