

Project #3

Due: 12/10

Tasks:

For this project you will create and populate MySQL tables for the library database schema defined below:

```
Library(libNo, libName, location, noRooms)
Author(authorNo, authorName)
Patron(patronNo, patronName, patronType)
Book(bookNo, title, noPages, authorNo)
CopyBook(copyNo, libNo, bookNo, cost)
Loan(loanNo, copyNo, patronNo, checkOutDate, dueDate)
```

Insert at least 7 tuples for each relation. Everyone in the class has or will have soon a MySQL account named “s1234567f14”, and database named “db_1234567f14” on services1.mcs.sdsmt.edu machine, where 1234567 is your student ID. The initial password is “change_me”. To login into MySQL from a machine named services1.mcs.sdsmt.edu, use the command:

```
% mysql -u sn...nf14 -h services1.mcs.sdsmt.edu -p db_n...n f14
```

MySQL will ask you for your password. The second **F10_n...n** above specifies the working database name.

```
Databasename:      db_<id>f14
Userid :           s<id>f14;
Password:          change_me
```

To change your temporary password use the command SET PASSWORD:

```
mysql> SET PASSWORD = PASSWORD('new_password');
```

Use the **source** command in MySQL to run a script file. Example:

```
mysql> source <filename>
```

*If you want to use GUI to manipulate your DB, please use “MySQL Workbench” which can be downloaded from F:\Dept\MCS\CSC484.

In the second part of the project, create a Web-based database application using PHP that accesses and manipulates the data stored in your MySQL database. Create several web pages on the Linux machine that:

- Display the books loaned by a selected patron.
- Display current patrons stored in the database.
- Search in all the libraries for a particular book title
- Loan a copy of a book if patron has checked out less than 3 books
- Insert a new patron

You may use selection boxes, radio buttons, links, push buttons, or any other option available.

An example is given at the URL: <http://www.mcs.sdsmt.edu/mqia/csc484/videostore.html>. You have to use “mcs” for username and “dbsec” for password to open the web pages.

The source code for the html and php pages will be displayed in the course's web site on a zip file.

For any help on MySQL or PHP refer to www.mysql.com or www.php.net.

Web page deployment: All students have web pages for development out on their NFS drive. To access this, <http://dev.mcs.sdsmt.edu/~9999999> where 9999999 is there id. To set this up, log into a Linux box on campus network or off campus over VPN. Create a folder www in your home directory. Then issue the commands “chmod o+x .” (don't forget the dot), and “chmod o+rx” www to grant appropriate permissions. Finally, add web content to the www folder.

What to hand in

Make a project archive with the SQL script, the PHP code, html files, and the URL of your main web page (any other comments or instruction) place in a readme file. Submit your solution through D2L dropbox before the deadline.

Demonstration

Demonstrate the features of your program to the instructor during office hours.

NOTE: This is a team project, but I want each one to implement your project on your own Linux account. Include your name in the first web page.