User Instructions

for

LIBRARY INFORMATION SYSTEM

Authors:

Nakul Aggarwal (19CS10044) Rupinder Goyal (19CS10050) Ashwamegh Rathore (19CS30009)

Instructors : Prof. Sourangshu Bhattacharya Prof. Abir Das

Owais Iqbal

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INSTRUCTIONS FOR USING THE CODE

Before running the code, make sure the *MySQL* server on your machine has the two databases -- *Library* and *Accounts*. The *tables* constituted by each of these databases and their *descriptions* are as follows.

```
+-----+
| Tables_in_accounts |
+-----+
| administrators |
| facultymembers |
| messages |
| nonfacultymembers |
+------+
4 rows in set (0.15 sec)
```

```
mysql> DESCRIBE Administrators ;
  Field
                             Null
                                    Key
                                          Default
                                                     Extra
             Type
  Id
             varchar(10)
                             NO
                                    PRI
                                          NULL
 Name
             varchar(100)
                             YES
                                          NULL
 DOB
             varchar(10)
                             YES
                                          NULL
  RegDate
             varchar(10)
                             YES
                                          NULL
  Password
             varchar(100)
                             YES
                                          NULL
  rows in set (0.03 sec)
```

```
mysql> DESCRIBE FacultyMembers ;
 Field
                               Null | Key
 LMCN
                                             NULL
                varchar(10)
                               NO
                                       PRI
 Name
                varchar(300)
                               YES
                                             NULL
 DOB
                varchar(10)
                                YES
                                             NULL
 RegDate
                varchar(10)
                                YES
                                             NULL
 IssueCount
                int
                                YES
                                             NULL
 Password
                varchar(50)
                               YES
                                             NULL
 instituteID |
               varchar(10)
                               YES
                                             NULL
 rows in set (0.00 sec)
```

```
mysql> DESCRIBE Messages ;
 Field
          Type
                           Null | Key | Default
            int
                                                   auto_increment
 SNo
                           NO
                                        NULL
 LMCN
                           YES
                                        NULL
           varchar(10)
 Subject | varchar(255)
                           YES
                                        NULL
 Message
            text
                           YES
                                        NULL
 Date
            varchar(10)
                           YES
                                        NULL
 Time
           varchar(4)
                                        NULL
 rows in set (0.01 sec)
```

```
mysql> DESCRIBE NonFacultyMembers ;
 Field
              Type
                              Null | Key | Default |
 LMCN
               varchar(10)
                              NO
                                      PRI
                                            NULL
 RollNo
                              YES
               varchar(10)
                                            NULL
 Name
               varchar(300)
                              YES
                                            NULL
 DOB
               varchar(10)
                              YES
                                            NULL
                                            NULL
 RegDate
               varchar(10)
                              YES
 IssueCount
               int
                              YES
                                            NULL
 Password
               varchar(50)
                              YES
                                            NULL
 rows in set (0.00 sec)
```

mysql> DESCRIBE BooksIssuedInPast ;						
Field	Туре	Null	Key	Default	Extra	
IssueId ISBN IssuerLMCN DateOfIssue DateOfReturn OverdueDays Penalty FinePaid	varchar(50) varchar(20) varchar(10) varchar(10) varchar(10) int	NO YES YES YES YES YES YES YES YES YES	PRI	NULL NULL NULL NULL NULL NULL NULL NULL NULL		
8 rows in set (

Field	+ Type	:		Default	
	·	 +	+		
ISBN	varchar(20)	NO	PRI	NULL	
Title	varchar(255)	YES		NULL	
Author	varchar(255)	YES	ĺ	NULL	
Language	varchar(20)	YES		NULL	
Rack	varchar(10)	YES		NULL	
Copies	int	YES		NULL	
Available	int	YES		NULL	
LastIssueDate	varchar(10)	YES		NULL	
EntryDate	varchar(10)	YES		NULL	

mysql> DESCRIBE CurrentlyIssuedBooks ;						
Field		Null	Key	Default	Extra	
IssueId ISBN IssuerLMCN DateOfIssue DateOfReturn IsReserved	varchar(50) varchar(20) varchar(10) varchar(10) varchar(10) int	NO YES YES YES YES YES	PRI 	NULL NULL NULL NULL NULL		
++ 6 rows in set (0.00 sec)						

mysql> DESCRIBE ReservedBooks ;						
Field				Default		
+ ReserveId ReservationKey IssueId ReserverLMCN ReservedOn IsReturned DateOfReturn	varchar(50) varchar(255) varchar(50) varchar(10) varchar(10) int varchar(10)	NO YES YES YES YES YES YES	 PRI 	NULL NULL NULL NULL NULL NULL NULL		
+++++++						

Strictly adhere to all the naming conventions and the relative ordering among the columns otherwise the application might crash. Make sure that the data type of the columns also matches.

Before running the code, you must enter the following information in the respective sections of the code.

- LINE 347: Enter the password for your MySQL workbench inside the class ApplicationDesign.
- LINE 348: Enter the username for your MySQL workbench inside the class ApplicationDesign.
- LINE 3050: Enter the absolute path of the background image on your machine.

Now you can run the code and use the available modules.