

# Library Management System

Installation Guide on  
Windows

## 1. Download:

- MySQL Community Server  
<http://www.mysql.com/downloads/mysql/>
- MySQL Workbench (GUI Tool)  
<http://www.mysql.com/downloads/workbench/>
- Java Runtime Environment (JRE)  
<http://java.com/en/download/manual.jsp>



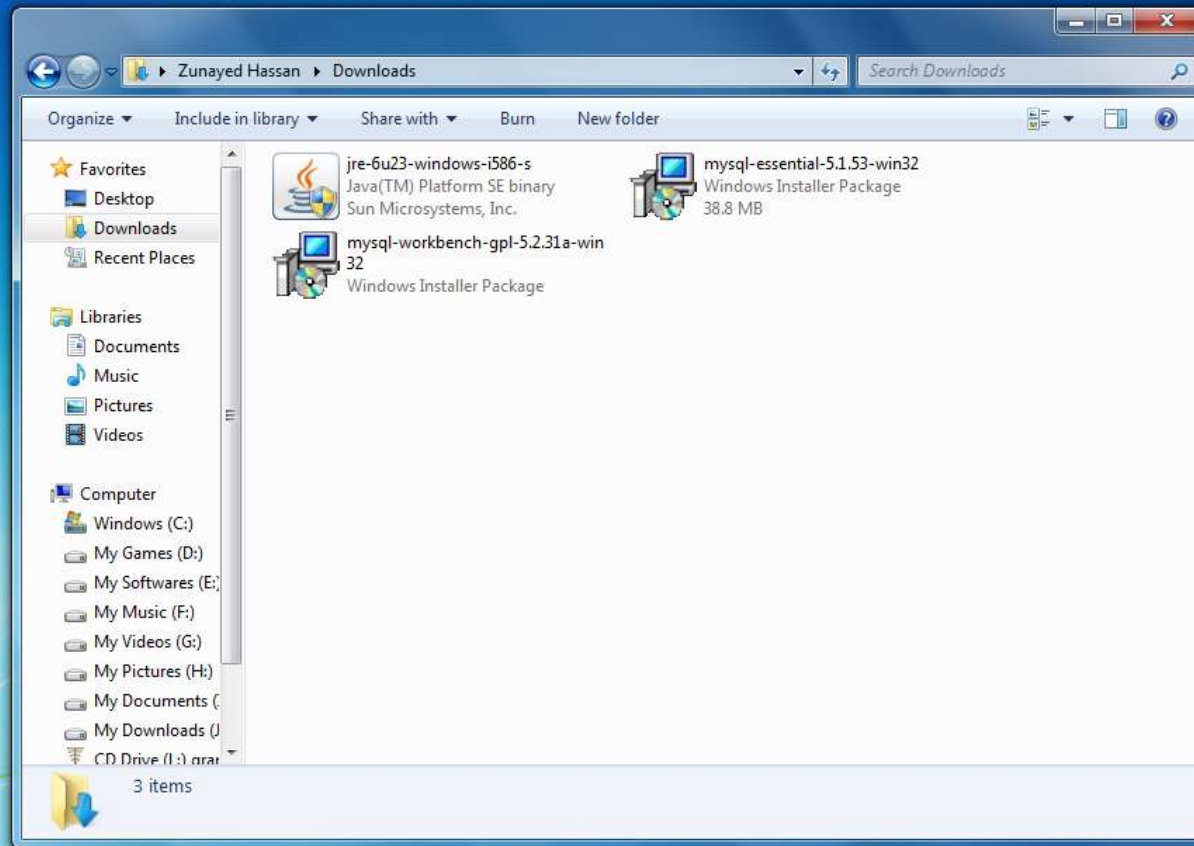
Computer



Recycle Bin



Grameenp...  
Internet



EN



17:59  
30-12-10

## 2. Install

- MySQL Community Server
- MySQL Workbench
- JRE

# Installing and Configuring MySQL Community Server



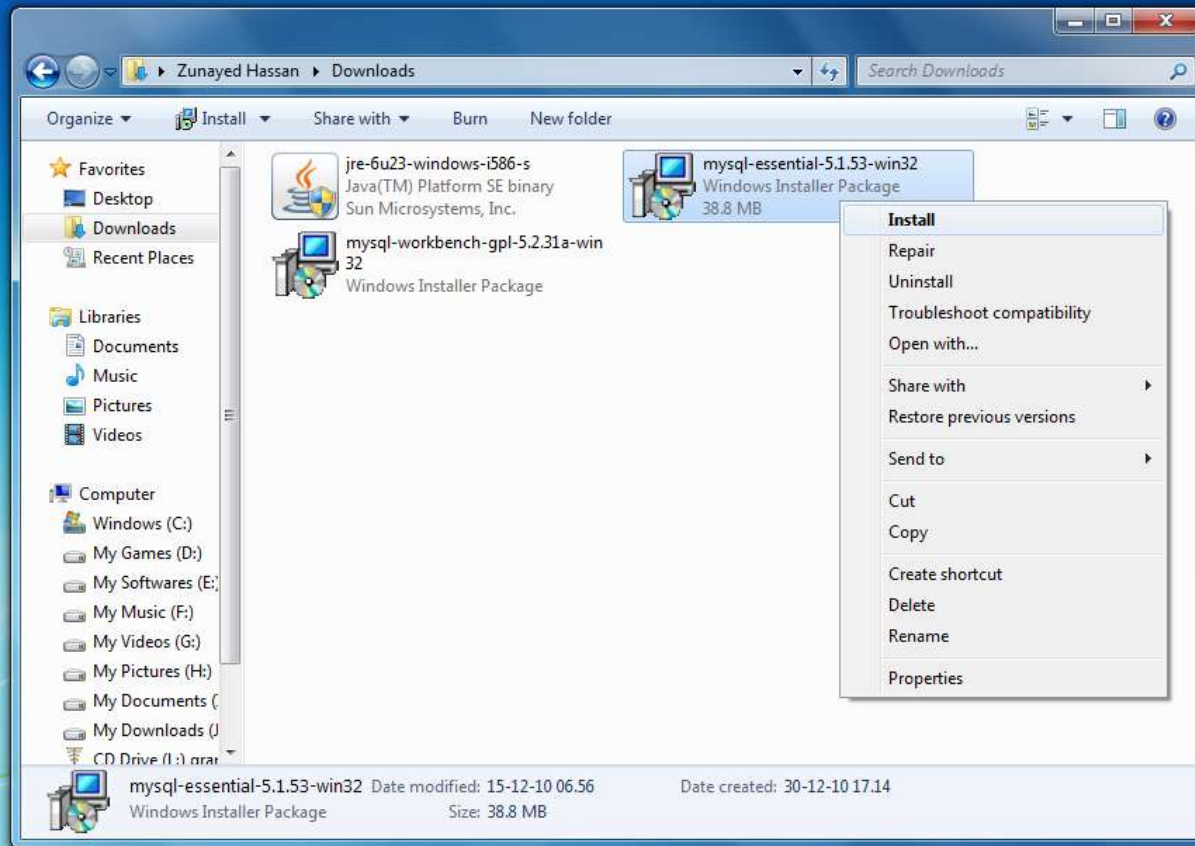
Computer



Recycle Bin



Grameenp...  
Internet



EN



18.00  
30-12-10



Computer



Recycle Bin



Grameenp...  
Internet





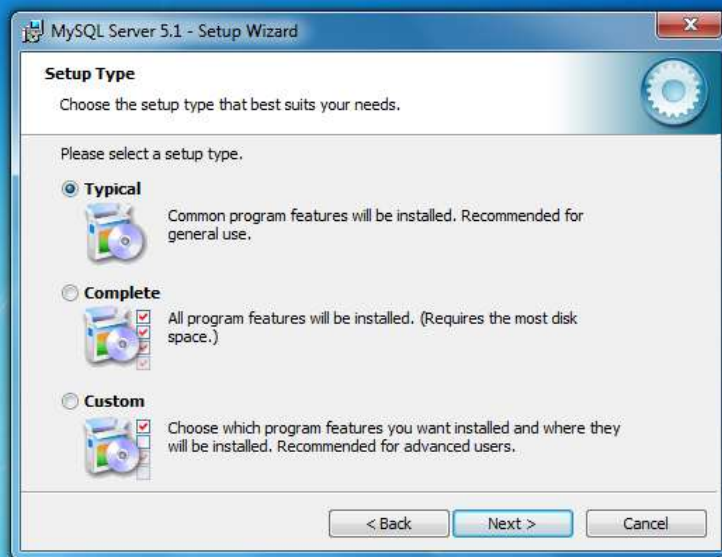
Computer



Recycle Bin



Grameenp...  
Internet



EN



18.02  
30-12-10

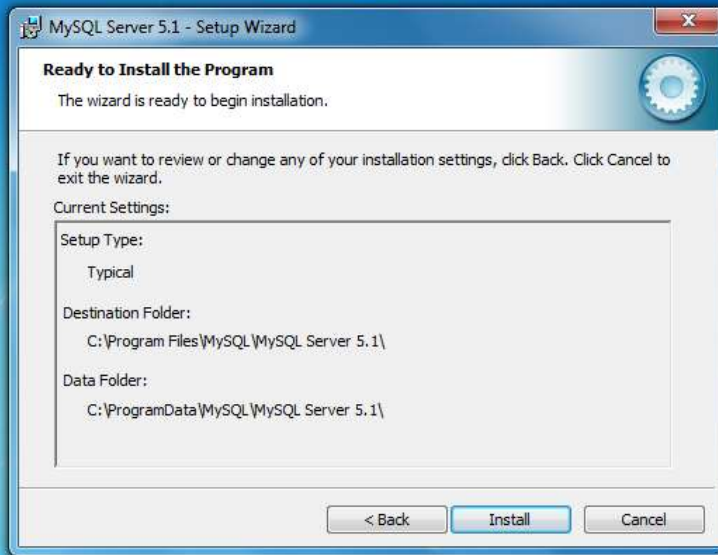




Computer



Recycle Bin



EN




18.02  
30-12-10





MySQL Enterprise



A MySQL Enterprise subscription is the most comprehensive offering of MySQL database software, services, and support to ensure your business achieves the highest levels of reliability, security, and uptime.

An Enterprise Subscription includes:

- 1. The MySQL Enterprise Server** - The most reliable, secure, and up-to-date version of the world's most popular open source database.
- 2. MySQL Enterprise Monitor Service** - An automated virtual database assistant.
- 3. MySQL Production Support** - Technical and consultative support when you need it, along with service packs, hot-fixes, and more.

For more information click [\[More...\]](#) or visit [www.mysql.com/enterprise](http://www.mysql.com/enterprise)

More ...

< Back

Next >

Cancel





Computer



Recycle Bin



EN



18.04  
30-12-10



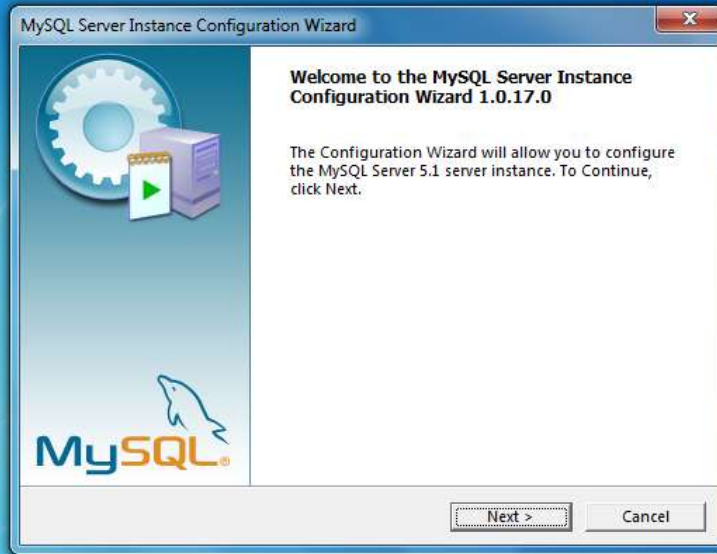
Computer



Recycle Bin



Grameenp...  
Internet



EN



18.05  
30-12-10



Computer



Recycle Bin



Grameenp...  
Internet



EN



18.06  
30-12-10






MySQL Server Instance Configuration Wizard


**MySQL Server Instance Configuration**  
Configure the MySQL Server 5.1 server instance.

Please set the security options.

☒ **Modify Security Settings**

 New root password:  Enter the root password.  
Confirm:  Retype the password.

☐ Enable root access from remote machines

☐ Create An Anonymous Account  
 This option will create an anonymous account on this server.  
Please note that this can lead to an insecure system.

< Back    Next >    Cancel

Password: zhp.lin





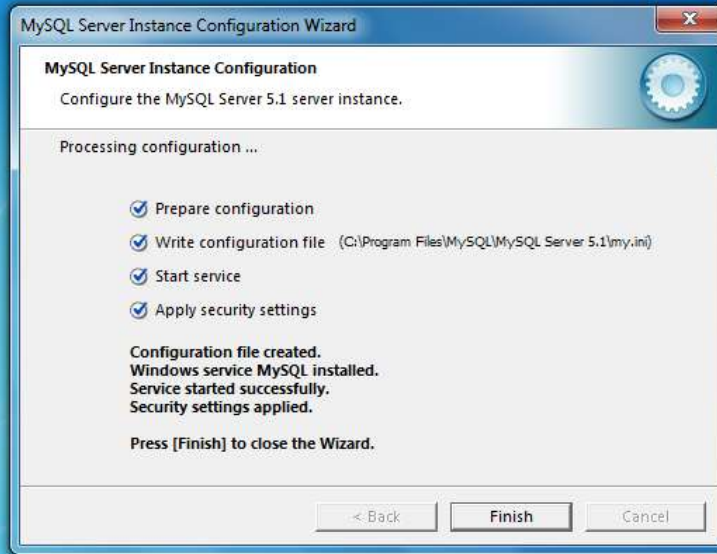
Computer



Recycle Bin



Grameenp...  
Internet



18.08  
30-12-10



## Installing MySQL Workbench (GUI Tool)



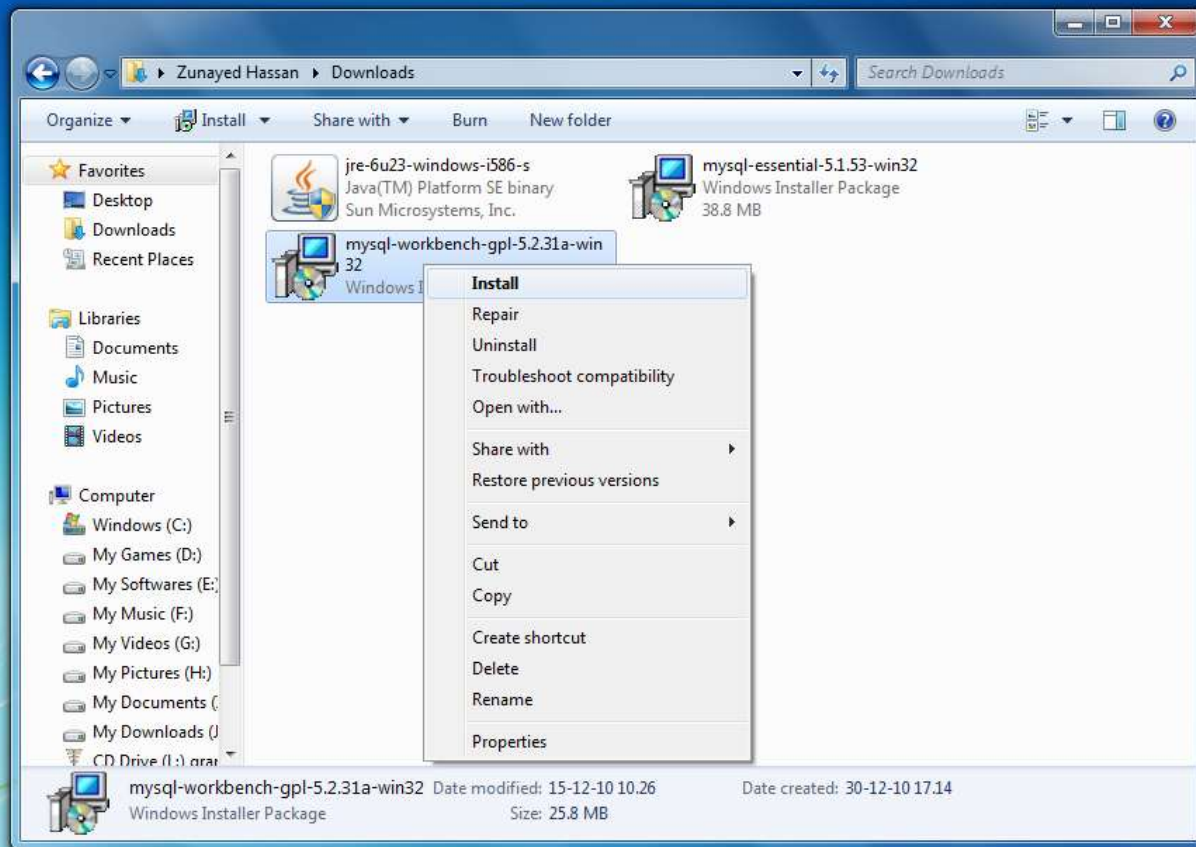
Computer



Recycle Bin



Grameenp...  
Internet





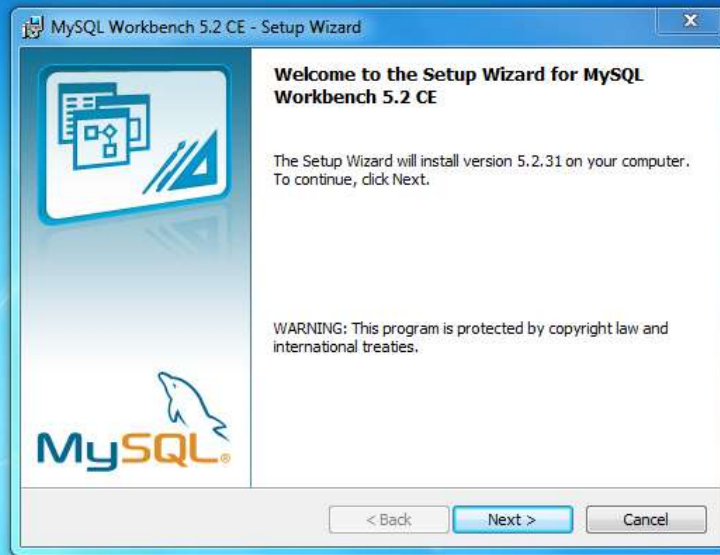
Computer



Recycle Bin



Grameenp...  
Internet



EN



18.59

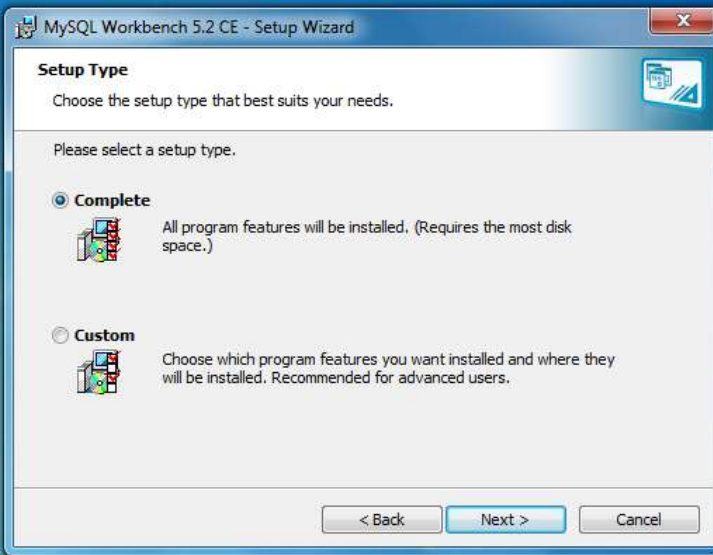
30-12-10



Computer



Recycle Bin



EN



19.00

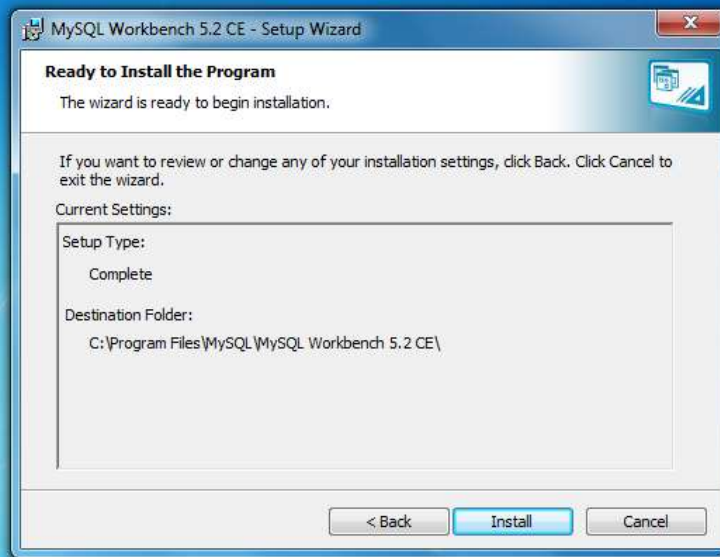
30-12-10



Computer



Recycle Bin

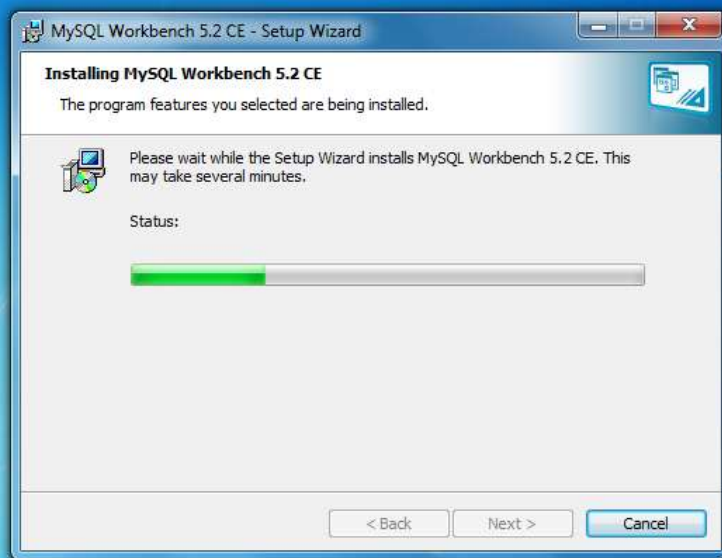


EN



19.00

30-12-10

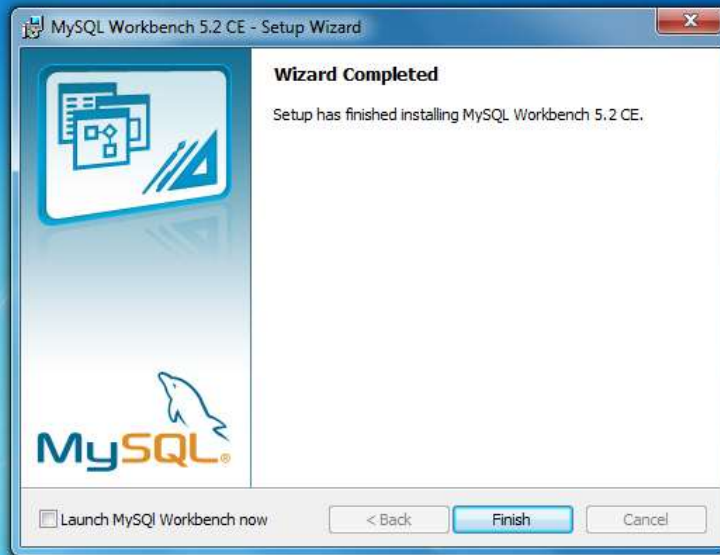




Computer



Recycle Bin



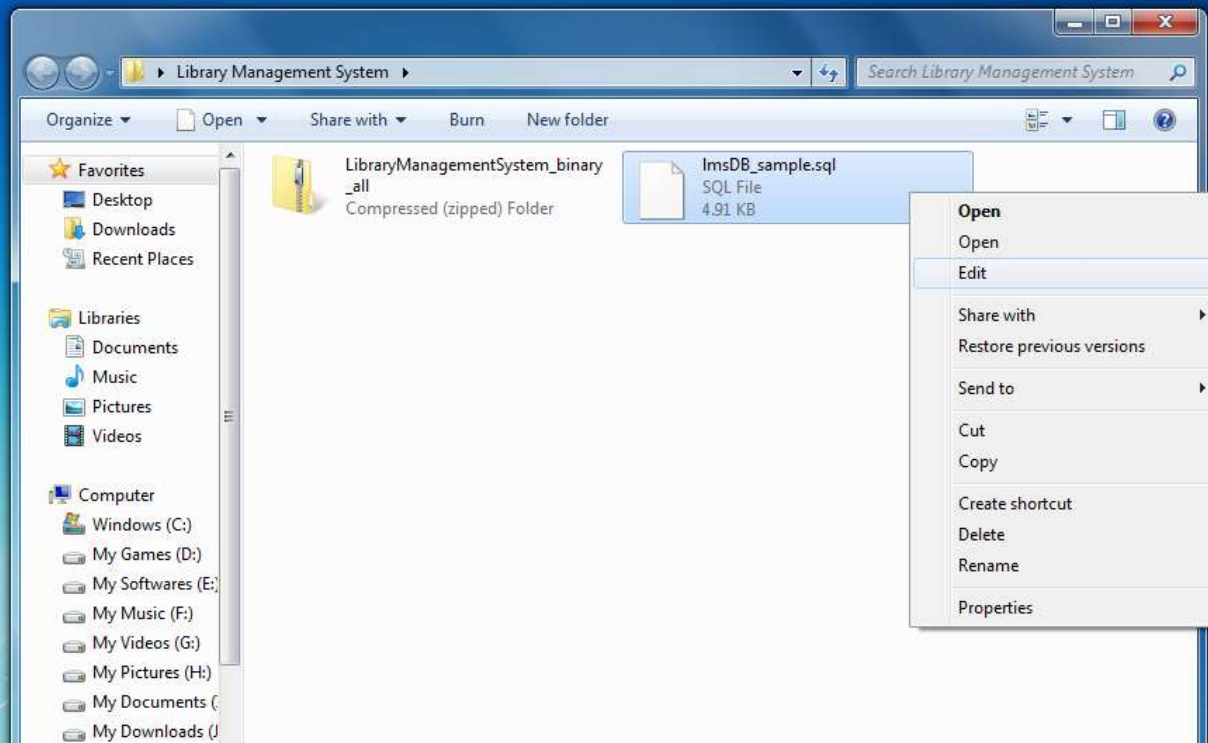
EN



19.01  
30-12-10

Creating a database using MySQL Workbench





**Note:** To install our Library Management Software, we need a database named 'lmsDB'. There is a sample SQL file for this database is included in this folder.





Computer



Recycle Bin



Internet



Library

Manage...

```
lmsDB_sample.sql - Notepad
File Edit Format View Help
|-- lmsDB
=====
CREATE DATABASE IF NOT EXISTS lmsDB;
=====
USE lmsDB;
=====
-- user_info
=====
CREATE TABLE user_info (
    user_id INT(3) NOT NULL AUTO_INCREMENT PRIMARY KEY,
    user_name_first VARCHAR (25) NOT NULL,
    user_name_middle VARCHAR(15),
    user_name_last VARCHAR(25) NOT NULL,
    user_type ENUM('Administrator', 'Member') NOT NULL,
    user_password VARCHAR(10) NOT NULL,
    gender ENUM('Male', 'Female') NOT NULL,
    date_of_birth DATE NOT NULL,
    phone VARCHAR(20) NOT NULL,
    email VARCHAR(50) NOT NULL,
    address_house_no VARCHAR(12) NOT NULL,
    address_street VARCHAR(80) NOT NULL,
    address_city VARCHAR(15) NOT NULL,
    address_zip INT(4) NOT NULL,
    country VARCHAR (15) NOT NULL
) ENGINE = INNODB;
=====
INSERT INTO user_info(user_name_first, user_name_middle, user_name_last, user_type, user_password, gender, date_of_birth, pl
INSERT INTO user_info(user_name_first, user_name_middle, user_name_last, user_type, user_password, gender, date_of_birth, pl
INSERT INTO user_info(user_name_first, user_name_middle, user_name_last, user_type, user_password, gender, date_of_birth, pl
=====
```





lmsDB\_sample.sql - Notepad

File Edit Format View Help

Undo Ctrl+Z  
Cut Ctrl+X  
Copy Ctrl+C  
Paste Ctrl+V  
Delete Del  
Find... Ctrl+F  
Find Next F3  
Replace... Ctrl+H  
Go To... Ctrl+G  
Select All Ctrl+A  
Time/Date F5

```
=====
CREA STS lmsDB;
=====
USE
=====
-- U
-- L
CREA

NULL AUTO_INCREMENT PRIMARY KEY,
CHAR (25) NOT NULL,
CHAR(15),
CHAR(25) NOT NULL,
ministrator', 'Member') NOT NULL,
CHAR(10) NOT NULL,
', 'Female') NOT NULL,
NOT NULL,
NOT NULL,
NOT NULL,
CHAR(12) NOT NULL,
address_street VARCHAR(80) NOT NULL,
address_city VARCHAR(15) NOT NULL,
address_zip INT(4) NOT NULL,
country VARCHAR (15) NOT NULL
) ENGINE = INNODB;

=====
INSERT INTO user_info(user_name_first, user_name_middle, user_name_last, user_type, user_password, gender, date_of_birth, pl
INSERT INTO user_info(user_name_first, user_name_middle, user_name_last, user_type, user_password, gender, date_of_birth, pl
INSERT INTO user_info(user_name_first, user_name_middle, user_name_last, user_type, user_password, gender, date_of_birth, pl
=====
```





lmsDB\_sample.sql - Notepad

File Edit Format View Help

Undo Ctrl+Z  
Cut Ctrl+X  
Copy Ctrl+C  
Paste Ctrl+V  
Delete Del  
Find... Ctrl+F  
Find Next F3  
Replace... Ctrl+H  
Go To... Ctrl+G  
Select All Ctrl+A  
Time/Date F5

```
50) NOT NULL,  
DATE NOT NULL,  
  
INSERT INTO issue VALUES ('0-07-038001-5', 'Data Structures', 'Seymour Lipschutz', 'Tata McGraw-Hill Publishing Company',  
INSERT INTO issue VALUES ('978-007-124474-9', 'Discrete Mathematics and Its Applications', 'Kenneth H. Rosen', 'McGraw-Hill',  
INSERT INTO issue VALUES ('978-0471-98019-3', 'Accounting Principles', 'Donald E. Kieso', 'John Wiley & Sons, Inc', '2007-01-01',  
INSERT INTO issue VALUES ('81-7515-257-5', 'Fundamentals of Algorithms', 'Ellis Horowitz', 'Galgotia Publications Pvt. Ltd', '2004-00-00',  
INSERT INTO issue VALUES ('0-07-882311-0', 'Teach Yourself C', 'Herbert Schildt', 'McGraw-Hill', '2004-00-00', 640, 'Com  
  
=====
```

```
isbn VARCHAR(16),  
issue_date DATE,  
due_date DATE,  
  
FOREIGN KEY (user_id) REFERENCES user_info(user_id) ON DELETE RESTRICT,  
FOREIGN KEY (isbn) REFERENCES book_info(isbn) ON DELETE RESTRICT  
ENGINE = INNODB;  
  
INSERT INTO issue VALUES (2, '978-007-124474-9', curdate(), curdate()+3);  
  
SELECT user_info.user_name_first, user_info.user_name_middle, user_info.user_name_last, user_info.user_id, issue.isbn, book
```







Computer



Recycle Bin



MySQL Workbench 5.2 CE

Default Programs

Desktop Gadget Gallery

Internet Explorer

Windows DVD Maker

Windows Fax and Scan

Windows Media Center

Windows Media Player

Windows Update

XPS Viewer

Accessories

Games

Grameenphone Internet

Maintenance

Microsoft Office

MySQL

SharePoint

Startup

Back

Search programs and files



Zunayed Hassan

Documents

Pictures

Music

Games

Computer

Control Panel

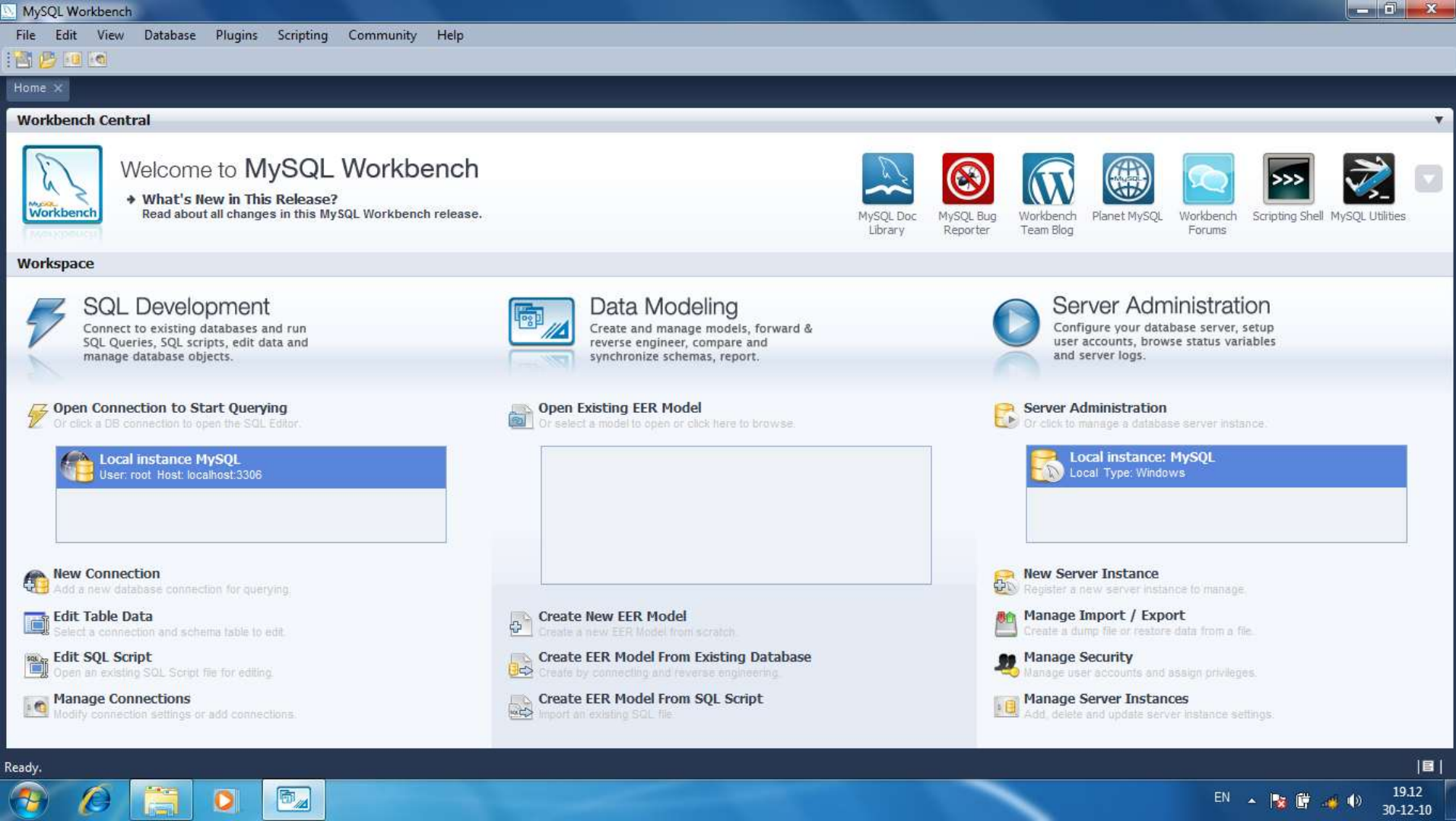
Devices and Printers

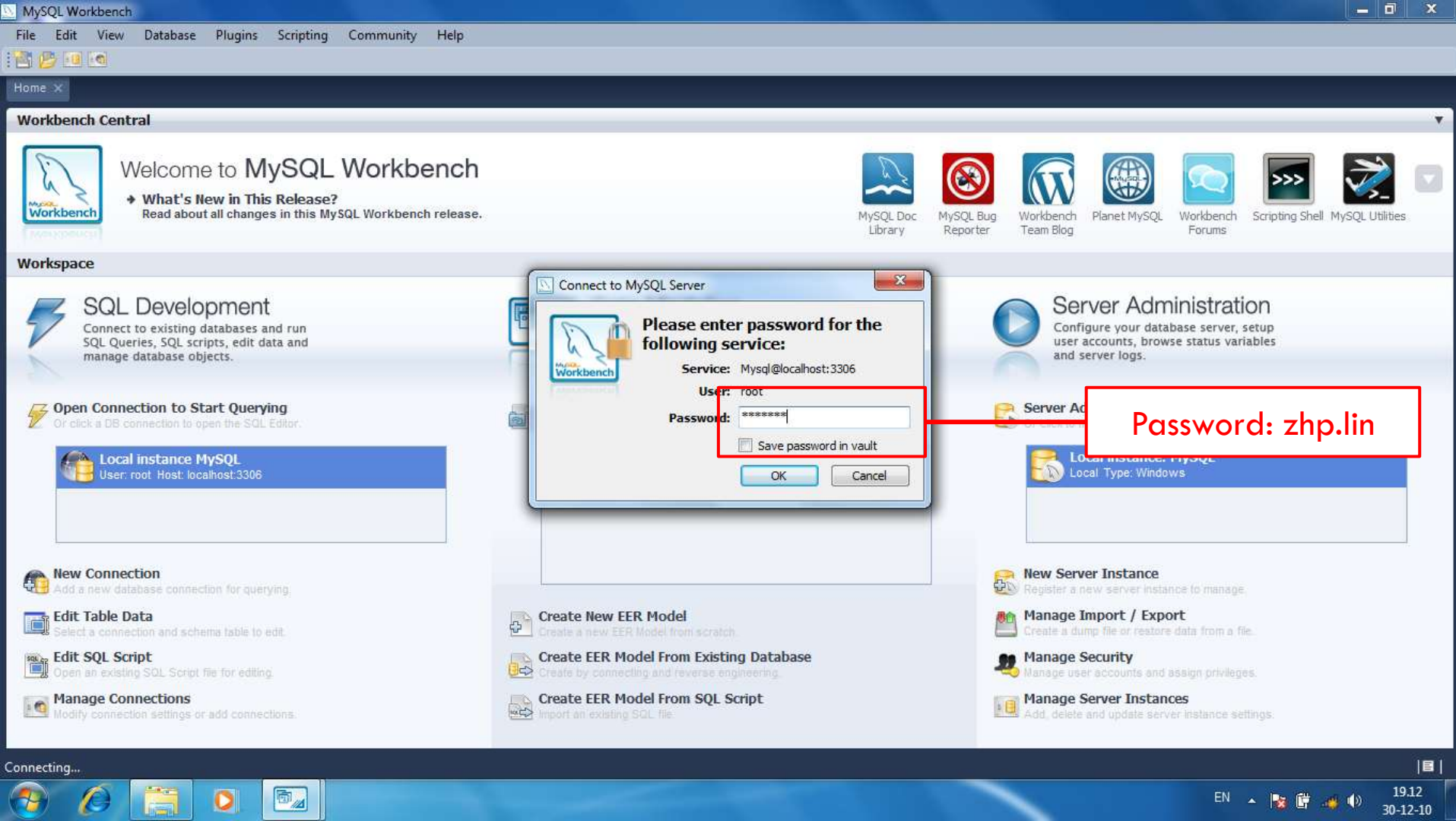
Default Programs

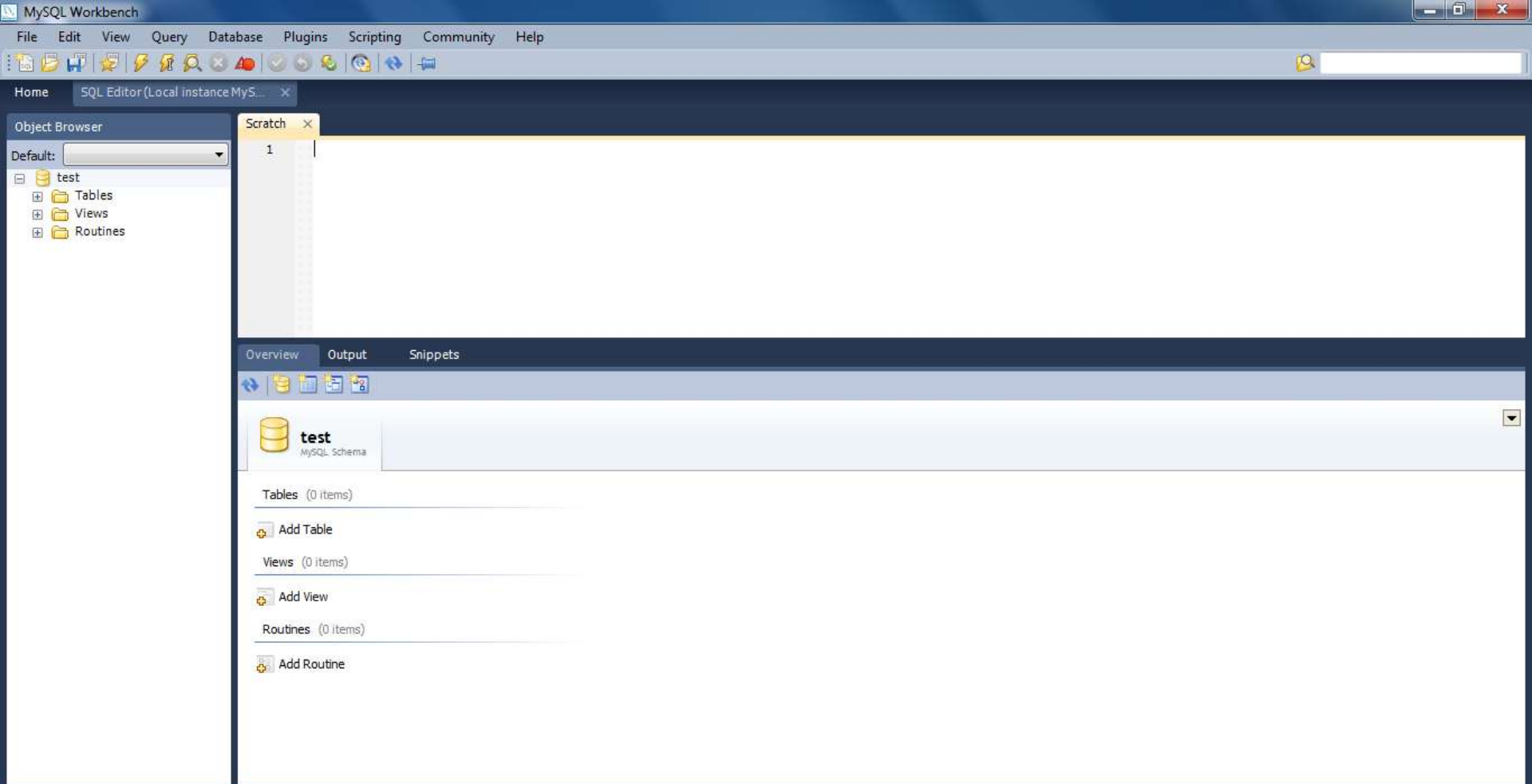
Help and Support

Shut down





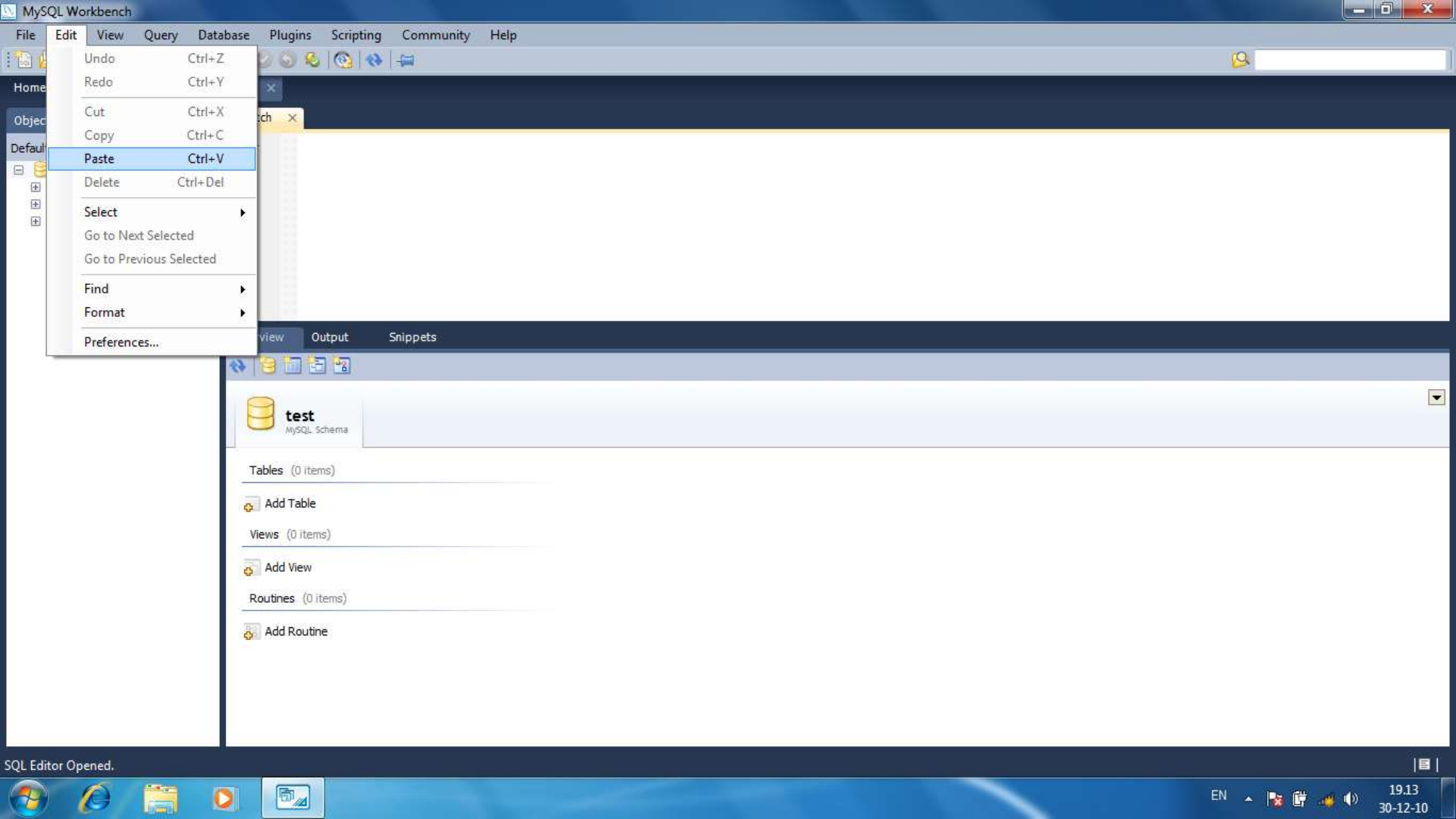




SQL Editor Opened.

| 1 |





- Undo Ctrl+Z
- Redo Ctrl+Y
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Delete Ctrl+Del
- Select
- Go to Next Selected
- Go to Previous Selected
- Find
- Format
- Preferences...

test  
MySQL Schema

Tables (0 items)

Add Table

Views (0 items)

Add View

Routines (0 items)

Add Routine

MySQL Workbench

File Edit View Query Database Plugins Scripting Community Help

Home SQL Editor (Local instance MyS...

Object Browser

Default:

- test
  - Tables
  - Views
  - Routines

Scratch

```
64 due_date DATE,
65
66 FOREIGN KEY (user_id) REFERENCES user_info(user_id) ON DELETE RESTRICT,
67 FOREIGN KEY (isbn) REFERENCES book_info(isbn) ON DELETE RESTRICT
68 ) ENGINE = INNODB;
69
70 INSERT INTO issue VALUES (2, '978-007-124474-9', curdate(), curdate()+3);
71
72 SELECT user_info.user_name_first, user_info.user_name_middle, user_info.user_name_last, user_info.user_id, issue.isbn, book_info.titl
73
74
```

Overview Output Snippets

test  
MySQL Schema

Tables (0 items)

Add Table

Views (0 items)

Add View

Routines (0 items)

Add Routine

SQL Editor Opened.

MySQL Workbench

File Edit View Query Database Plugins Scripting Community Help

Home SQL Editor (Local instance MyS... X

Execute SQL Script in Connected Server

Object Browser

Default: test

- Tables
- Views
- Routines

```
64 due_date DATE,
65
66 FOREIGN KEY (user_id) REFERENCES user_info(user_id) ON DELETE RESTRICT,
67 FOREIGN KEY (isbn) REFERENCES book_info(isbn) ON DELETE RESTRICT
68 ) ENGINE = INNODB;
69
70 INSERT INTO issue VALUES (2, '978-007-124474-9', curdate(), curdate()+3);
71
72 SELECT user_info.user_name_first, user_info.user_name_middle, user_info.user_name_last, user_info.user_id, issue.isbn, book_info.titl
73
74
```

Overview Output Snippets

test  
MySQL Schema

Tables (0 items)

Add Table

Views (0 items)

Add View

Routines (0 items)

Add Routine

SQL Editor Opened.

MySQL Workbench

File Edit View Query Database Plugins Scripting Community Help

HomeSQL Editor (Local instance MyS...

Object Browser

Default:

Scratch

```
1  -- lmsDB
2  -----
3  • CREATE DATABASE IF NOT EXISTS lmsDB;
4  -----
5  • USE lmsDB;
6  -----
7
8  -- user_info
9  -----
10 • CREATE TABLE user_info (
11   user_id INT(3) NOT NULL AUTO_INCREMENT PRIMARY KEY,
12   user_name_first VARCHAR (25) NOT NULL;
```

OverviewOutputSnippetsResult (1)

Fetches 1 records. Duration: 0.000 sec, fetched in: 0.000 sec

	user_name_first	user_name_middle	user_name_last	user_id	isbn	title	author	issue_date	due_date
▶	Abdullah	Al	Mamun	2	978-007-124474-9	Discrete Mathematics and Its Applications	Kenneth H. Rosen	2010-12-30	2010-12-31

SQL Editor Opened.

Installing JRE



Computer



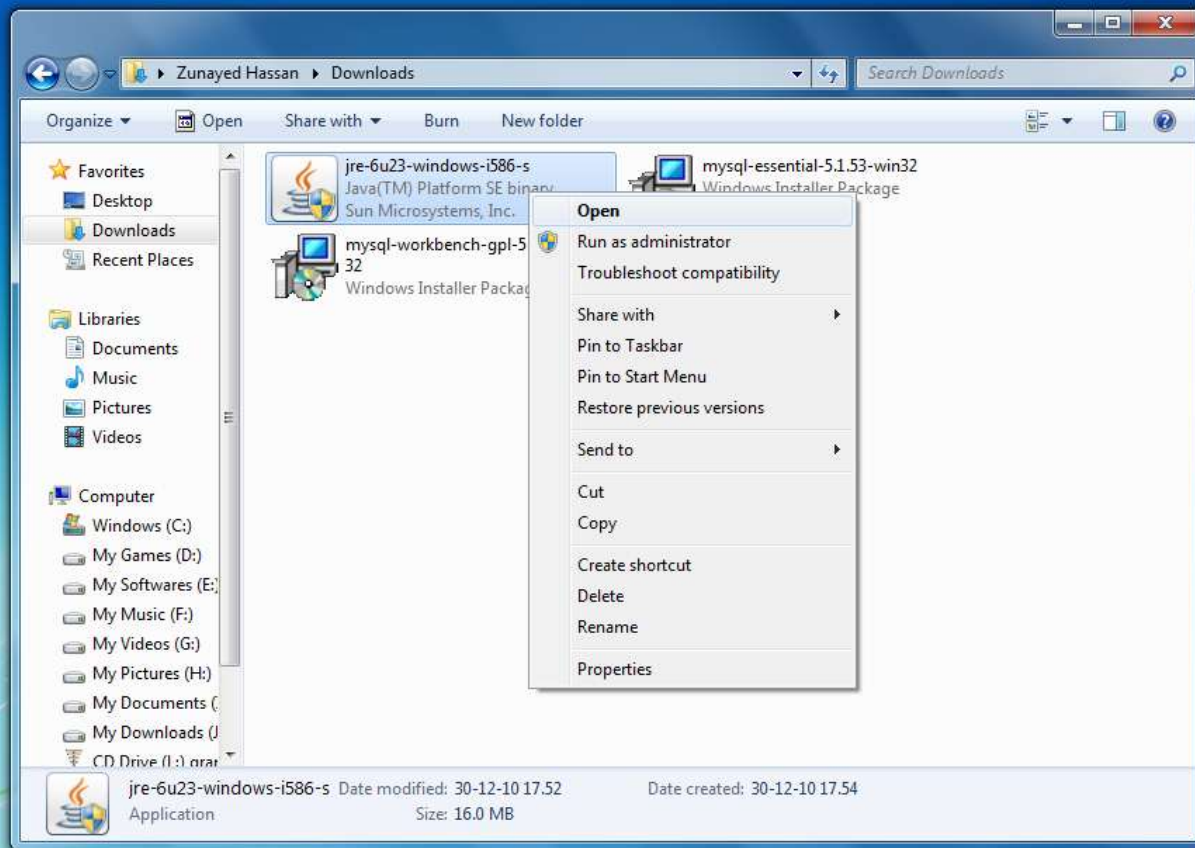
Recycle Bin



Grameenp...  
Internet



Library  
Manageme...



EN



22:07  
30-12-10



Computer



Recycle Bin



Grameenp...  
Internet



Library  
Manageme...



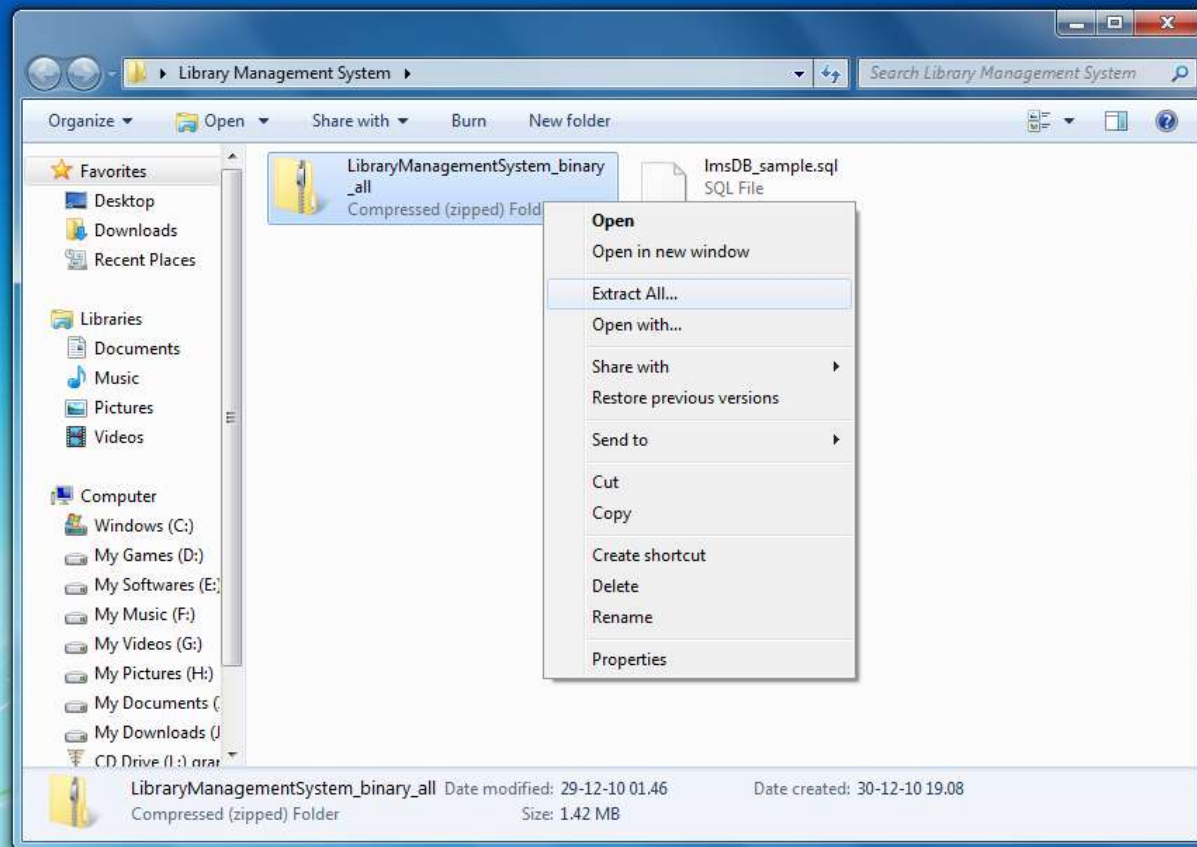
EN



22.08  
30-12-10

Running Library Management System







Computer



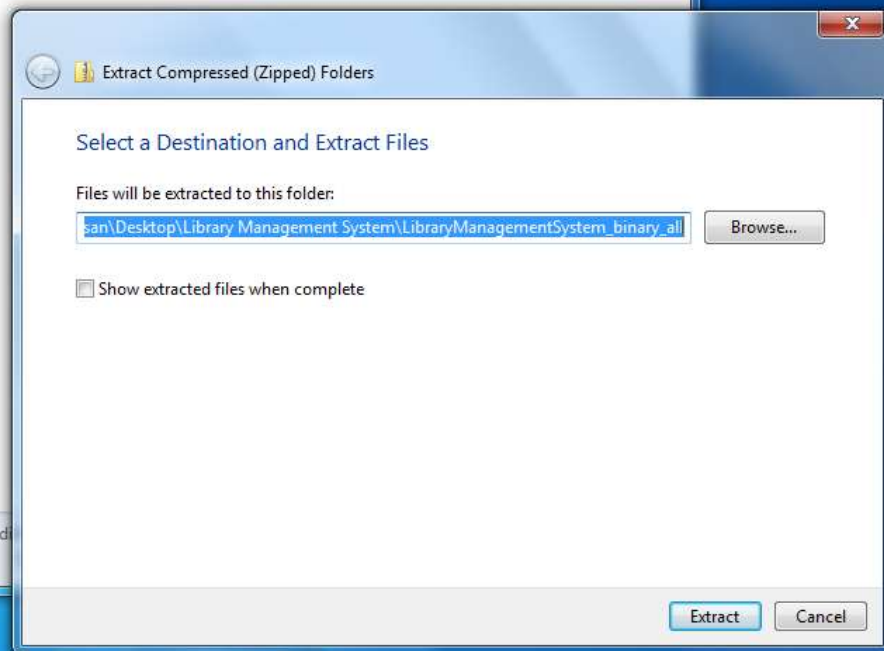
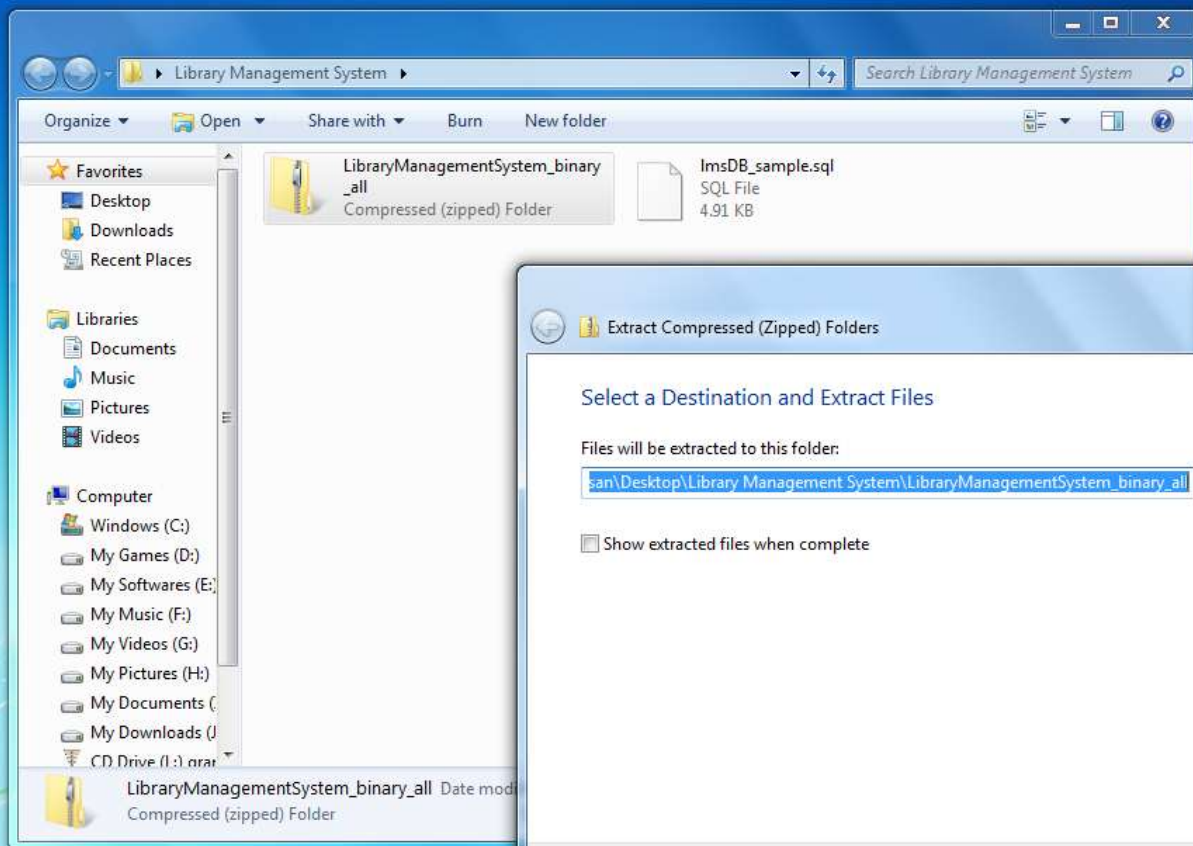
Recycle Bin



Grameenp...  
Internet



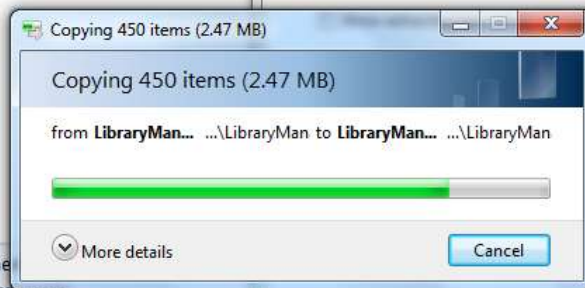
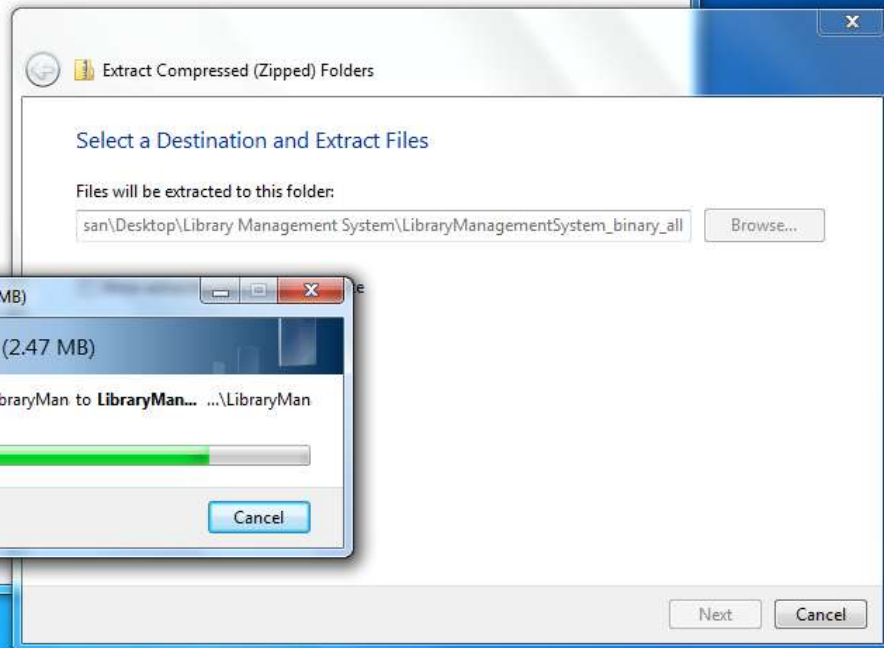
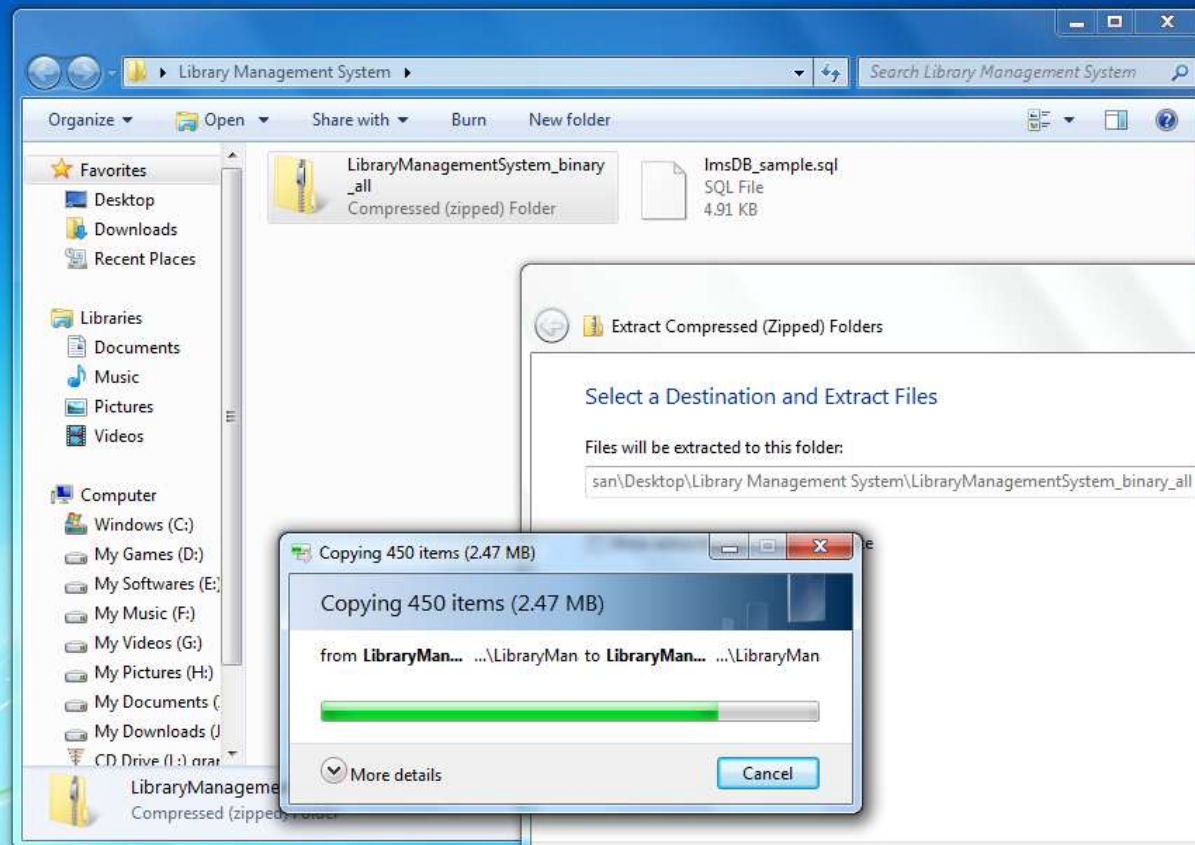
Library  
Manageme...

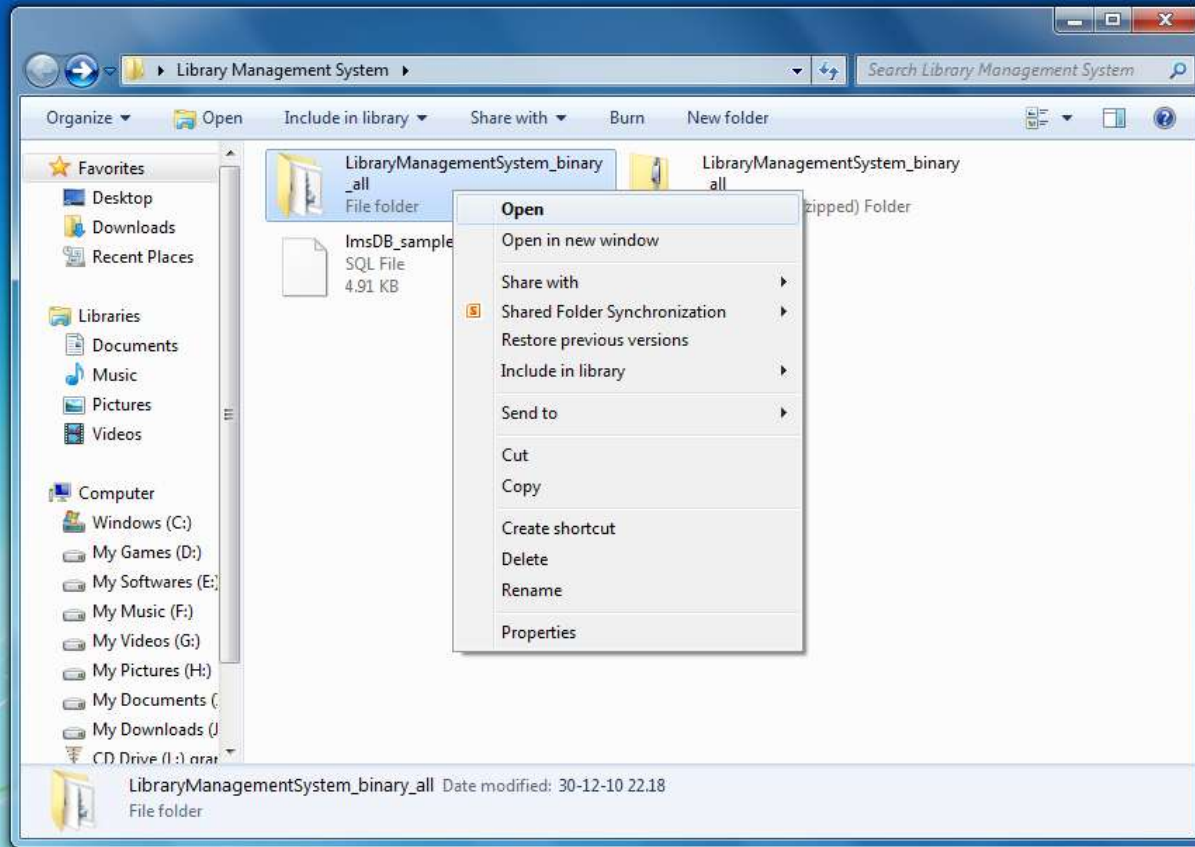


EN

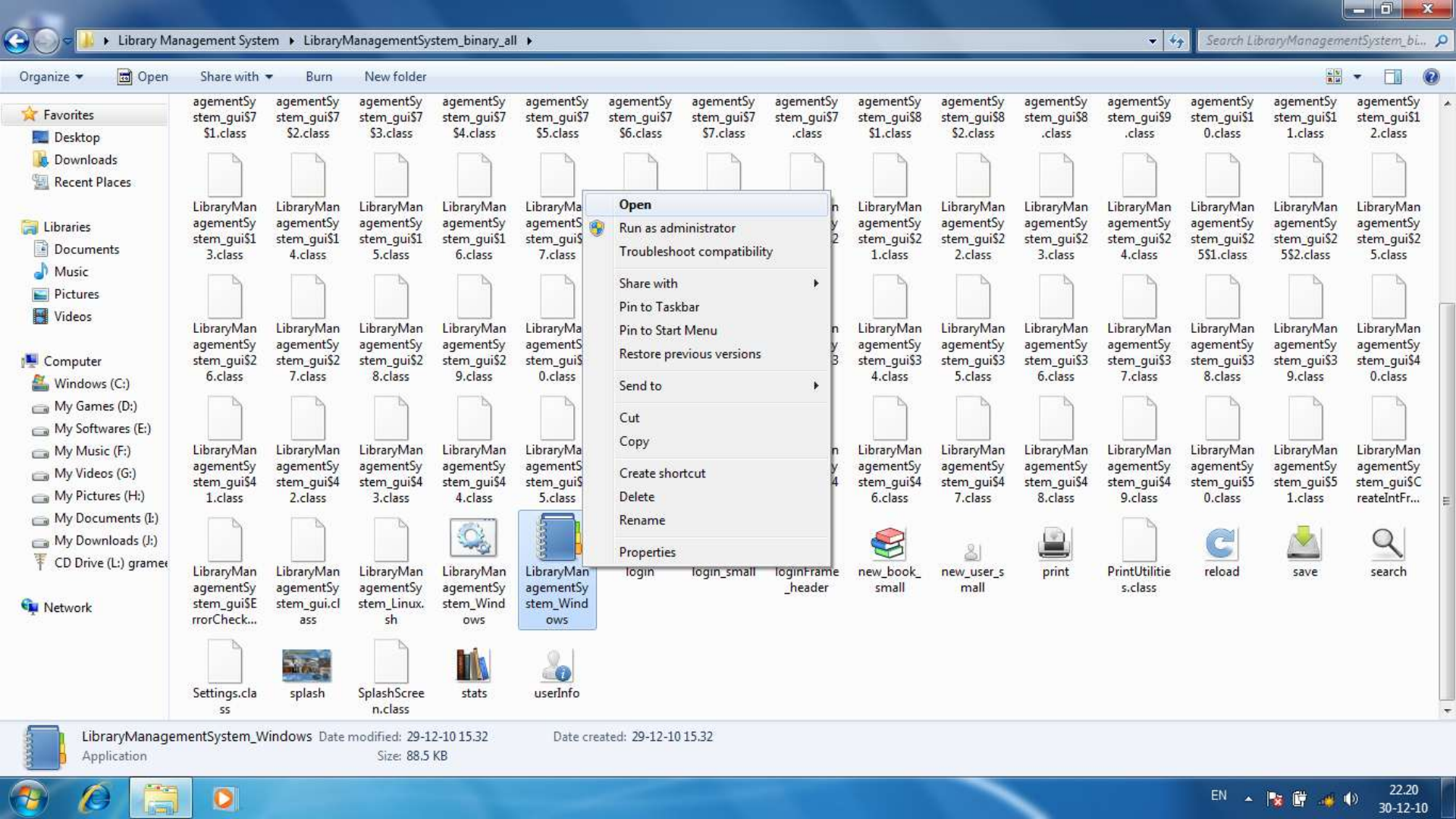


22.14  
30-12-10









A screenshot of a 'Library Management System Login Manager' window. The window has a title bar with 'Login' and standard window controls. The title 'Library Management System' is in yellow, and 'Login Manager' is in blue. There is a key icon on the right. The form contains two input fields: 'User ID:' with the value '1' and 'Password:' with masked characters '.....'. Below the fields are three buttons: 'More >>', 'Close', and 'Login'.

Login

**Library Management System**

**Login Manager**

User ID: 1

Password: .....

More >> Close Login

To run as Administrator,  
User ID: 1  
Password: 12345

To run as Member,  
User ID: 2  
Password: asdfg





[Mohammad Zunayed Hassan] - Library Management System

File Edit View Help

Book Table

isbn	title	author	publisher	publicati...	pages	genre
0-07-03...	Data St...	Seymo...	Tata Mc...	2004-0...	344	Compu...
0-07-88...	Teach...	Herbert...	McGraw...	2003-1...	640	Compu...
81-751...	Funda...					
978-00...	Discret...					
978-04...	Account...					

User Table

us...	us...	us...	us...	us...	us...	ge...	dat...	ph...	e...	ad...	ad...	ad...	ad...	co...
1	M...	Zu...	H...	Ad...	12...	M...	19...	01...	zu...	D...	S...	D...	12...	B...
2	Ab...	Al...	M...	as...	M...	19...	01...	al...	D...	E...	D...	12...	B...	
3	Ta...	Aziz	Jiko	M...	zx...	M...	19...	01...	ta...	3	S	D	10	B

Issue Table

user...	user...	user...	user...	isbn	title	author	publi...	issu...	due...
2	Abd...	Al	Mam...	978...	Disc...	Ken...	McG...	201...	201...

User Table

User ID: 2

Name: Abdullah Al Mamun

User Type: Member

Password: \*\*\*\*\*  
☒ Mask password

Gender: Male

Date of Birth: Jan 3, 1989

Phone No: 01712345678

Email: almamun@yahoo.com

Address

House No: DMC 201/A

Street: East Kafrul, Dhaka Cantonment

City: Dhaka

Zip: 1206

Country: Bangladesh

Mohammad Zunayed Hassan, 2010. email: zunayedhassan88@gmail.com

Administrator view





[Abdullah Al Mamun] - Library Management System

File View Help

Icons: Printer, Refresh, Search, Add Book, User, Power, Help, Star

**Book Table**

isbn	title	author	publisher	publicati...	pages	genre
0-07-03...	Data St...	Seymo...	Tata Mc...	2004-0...	344	Compu...
0-07-88...	Teach ...	Herbert...	McGraw...	2003-1...	640	Compu...
81-751...	Funda...	Ellis Ho...	Galgoti...	1997-1...	769	Compu...
978-00...	Discret...	Kennet...	McGraw...	2006-1...	843	Mathe...
978-04...	Accouti...	Donald	John Wi	2006-1	1172	Account

**User Issue Table**

user...	user...	user...	user...	isbn	title	author	publi...	issu...	due...
2	Abd...	Al	Mam...	978-...	Disc...	Ken...	McG...	201...	201...

**Book Table**

ISBN: 81-7515-257-5

Book Title: Fundamentals of Algorithms

Author: Ellis Horowitz

Publisher: Galgotia Publications Pvt. Ltd

Publication Date: ov 30, 1997

Pages: 769

Genre: Computer Science

Mohammad Zunayed Hassan, 2010. email: zunayedhassan88@gmail.com

Member view