

INSTITUTE OF INFORMATION TECHNOLOGY
Jahangirnagar University
Savar, Dhaka



Course Code: IT 3102
Course Title: Data Base Management System Lab

Project on Library Management System

Submitted By:

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Submitted To :

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Name of the project:

Library Management System

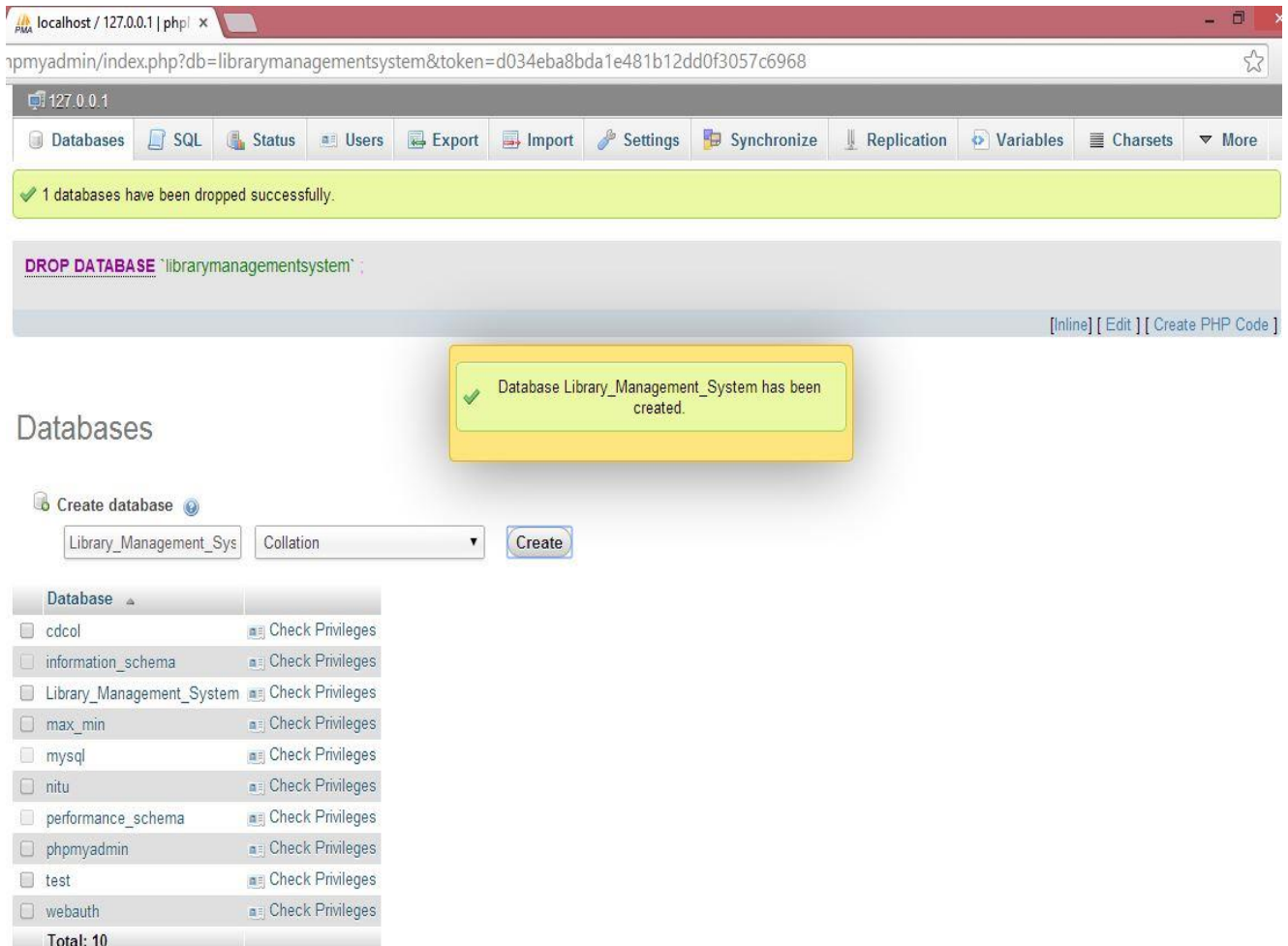
Tools Used:

01. XAMPP
02. Macromedia Dreamweaver

Description of the Project:

✓ Step 01:

To make a database we have to use XAMPP. This is the first step where we can create the database. We create a database named “library_management_system”.

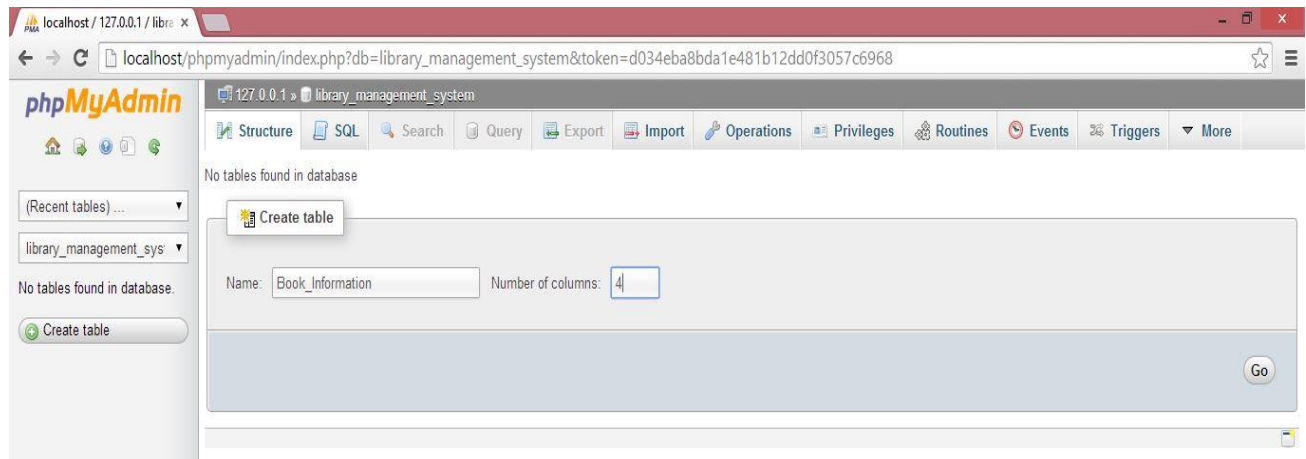


The screenshot shows the phpMyAdmin interface in a web browser. The address bar indicates the URL: `localhost / 127.0.0.1 | php | x` and the path: `phpmyadmin/index.php?db=librarymanagementsystem&token=d034eba8bda1e481b12dd0f3057c6968`. The interface includes a top navigation bar with tabs for Databases, SQL, Status, Users, Export, Import, Settings, Synchronize, Replication, Variables,Charsets, and More. A green message bar at the top states: "1 databases have been dropped successfully." Below this, a SQL query is shown: `DROP DATABASE `librarymanagementsystem` ;`. A yellow dialog box in the center displays a green checkmark and the text: "Database Library_Management_System has been created." The "Databases" section is visible, showing a list of databases with checkboxes and "Check Privileges" links. The "Create database" form is also present, with the name "Library_Management_Sys" entered in the text field, a "Collation" dropdown menu, and a "Create" button.

Database	
<input type="checkbox"/> cdcol	Check Privileges
<input type="checkbox"/> information_schema	Check Privileges
<input type="checkbox"/> Library_Management_System	Check Privileges
<input type="checkbox"/> max_min	Check Privileges
<input type="checkbox"/> mysql	Check Privileges
<input type="checkbox"/> nitu	Check Privileges
<input type="checkbox"/> performance_schema	Check Privileges
<input type="checkbox"/> phpmyadmin	Check Privileges
<input type="checkbox"/> test	Check Privileges
<input type="checkbox"/> webauth	Check Privileges
Total: 10	

✓ Step 02:

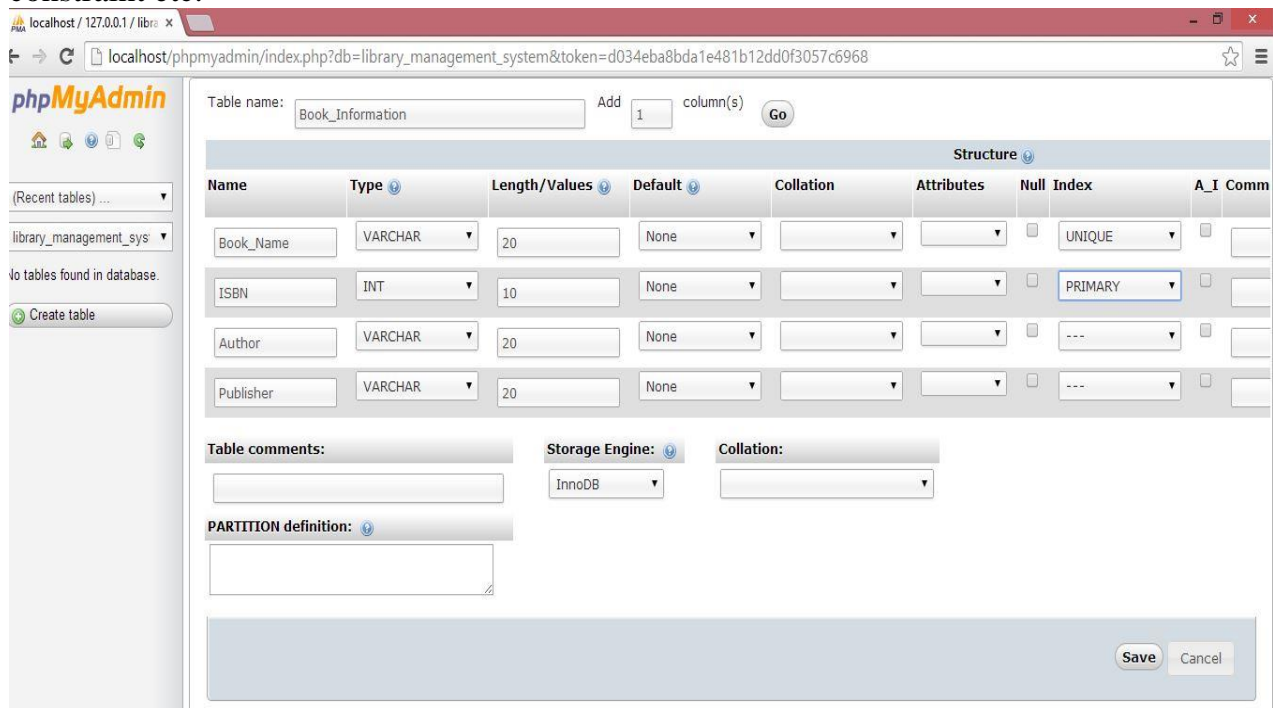
After creating database we have to create table for our project. As our project is on library management system so we can create a table named “Book_Information” and we need at least 4 column.



The screenshot shows the phpMyAdmin interface for creating a new table. The browser address bar shows the URL: localhost/phpmyadmin/index.php?db=library_management_system&token=d034eba8bda1e481b12dd0f3057c6968. The left sidebar shows the database 'library_management_sys' selected. The main panel displays the 'Create table' form with the table name 'Book_Information' and the number of columns set to 4. A 'Go' button is visible at the bottom right of the form.

✓ Step 03:

Now we have to give column name, type of data, length of data, collation, attributes, constraint etc.

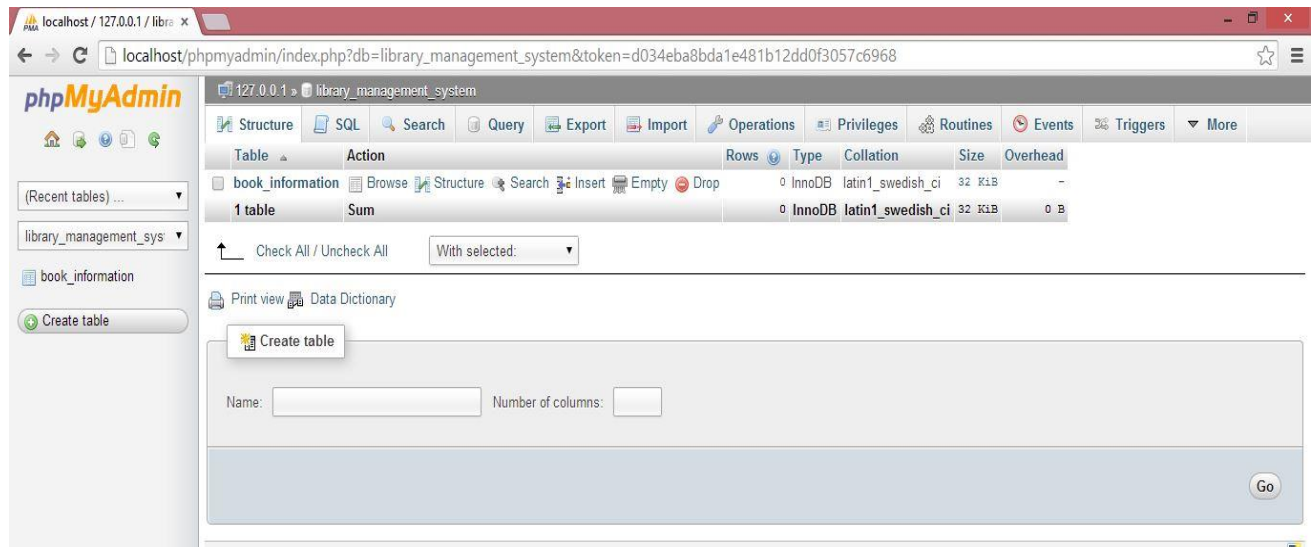


The screenshot shows the phpMyAdmin 'Structure' form for the 'Book_Information' table. The table name is 'Book_Information' and it has 1 column(s). The form displays a table with columns: Book_Name, ISBN, Author, and Publisher. The columns are defined with their respective data types, lengths, defaults, collations, attributes, and constraints. The 'ISBN' column is highlighted with a blue border, and its 'PRIMARY' constraint is selected. The 'Table comments' field is empty. The 'Storage Engine' is set to 'InnoDB' and the 'Collation' is set to 'utf8mb4_0900_ai_ci'. The 'PARTITION definition' field is empty. The 'Save' and 'Cancel' buttons are visible at the bottom right.

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	A_I	Comm
Book_Name	VARCHAR	20	None				UNIQUE		
ISBN	INT	10	None				PRIMARY		
Author	VARCHAR	20	None				---		
Publisher	VARCHAR	20	None				---		

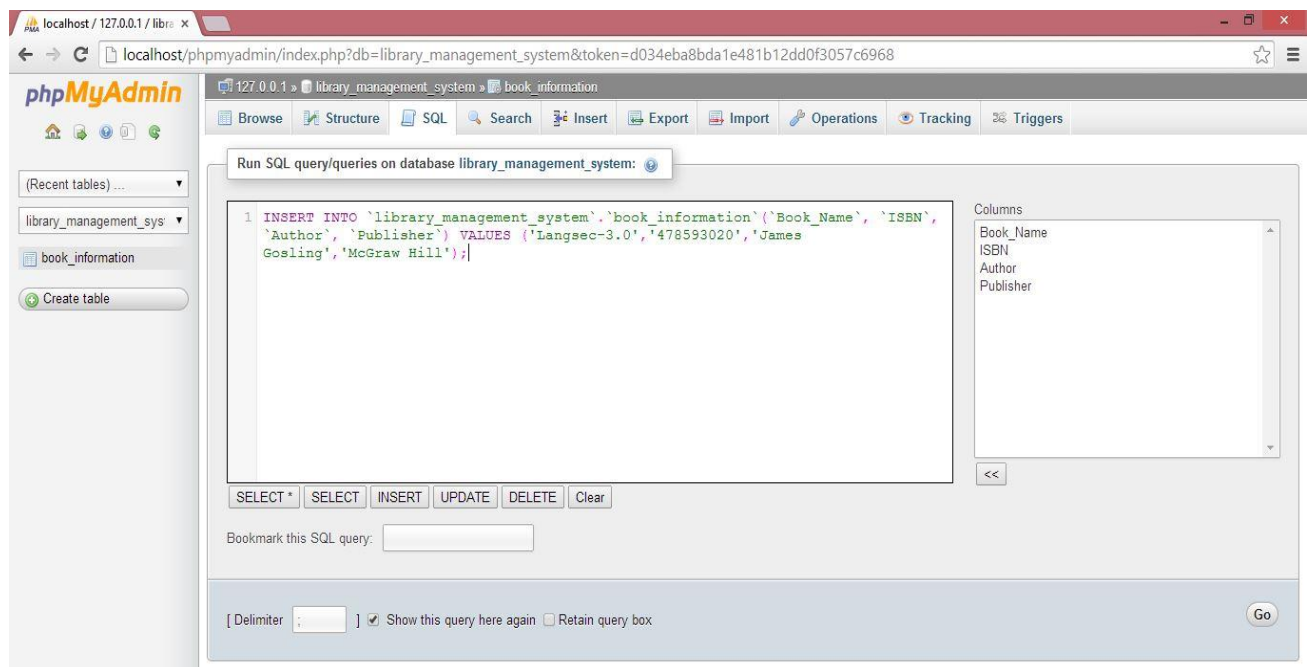
✓ Step 04:

After that the table `book_information` is shown in the database.



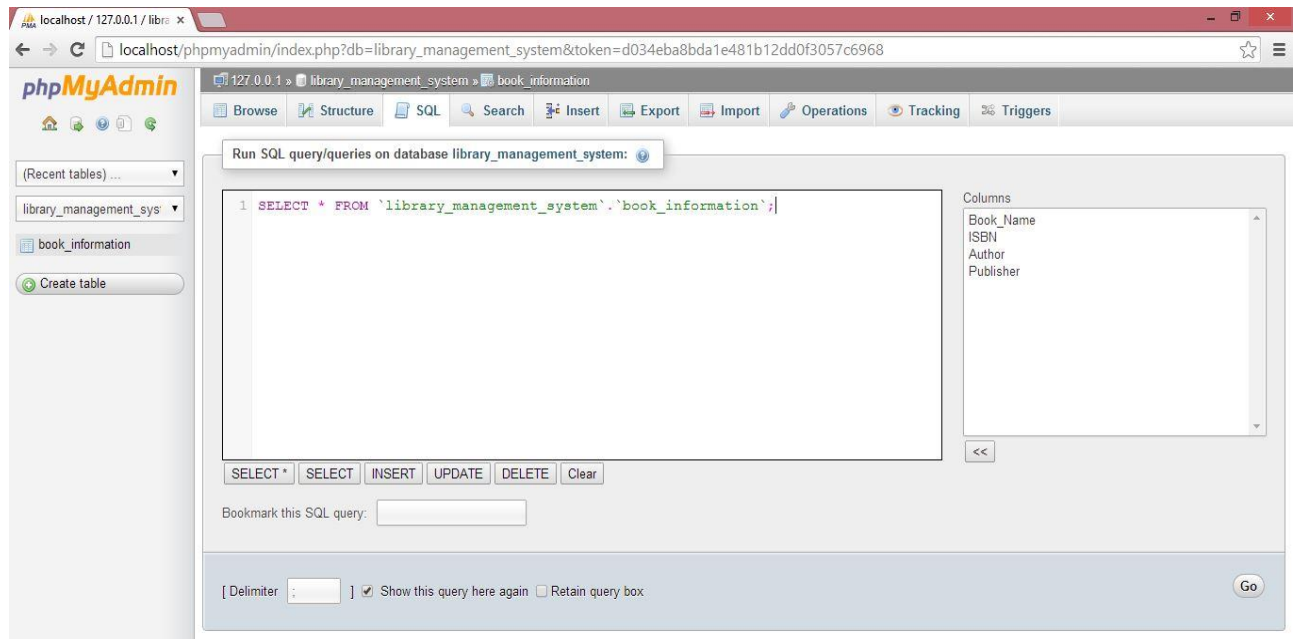
✓ Step 05:

Now we have to insert data into table.



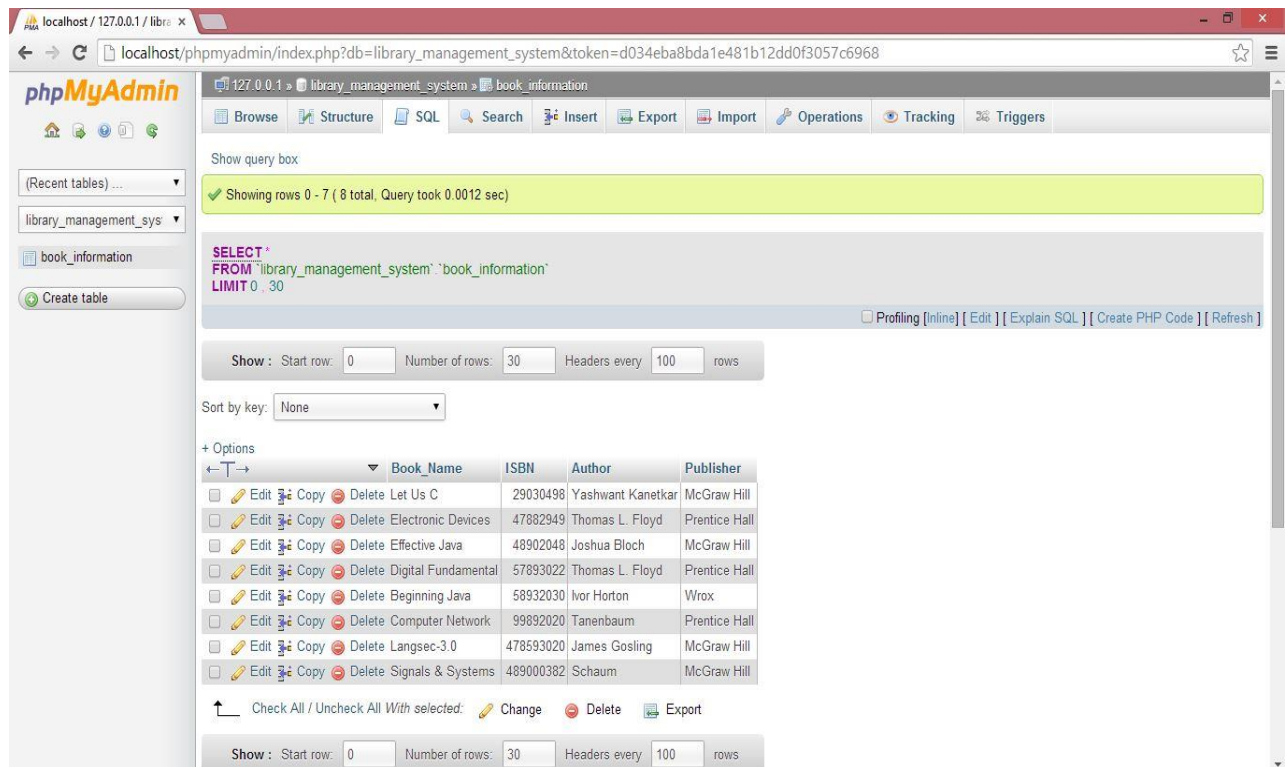
✓ Step 06:

If we want to show the full table then we have to write this on SQL.



✓ Step 07:

Now the table is shown with its data.



✓ **Step 08:**

Now if we want to add columns in the table then we have to select add 1 column.
After that we have to give the column name, type of data, length, constraint etc.

Add columns

Structure

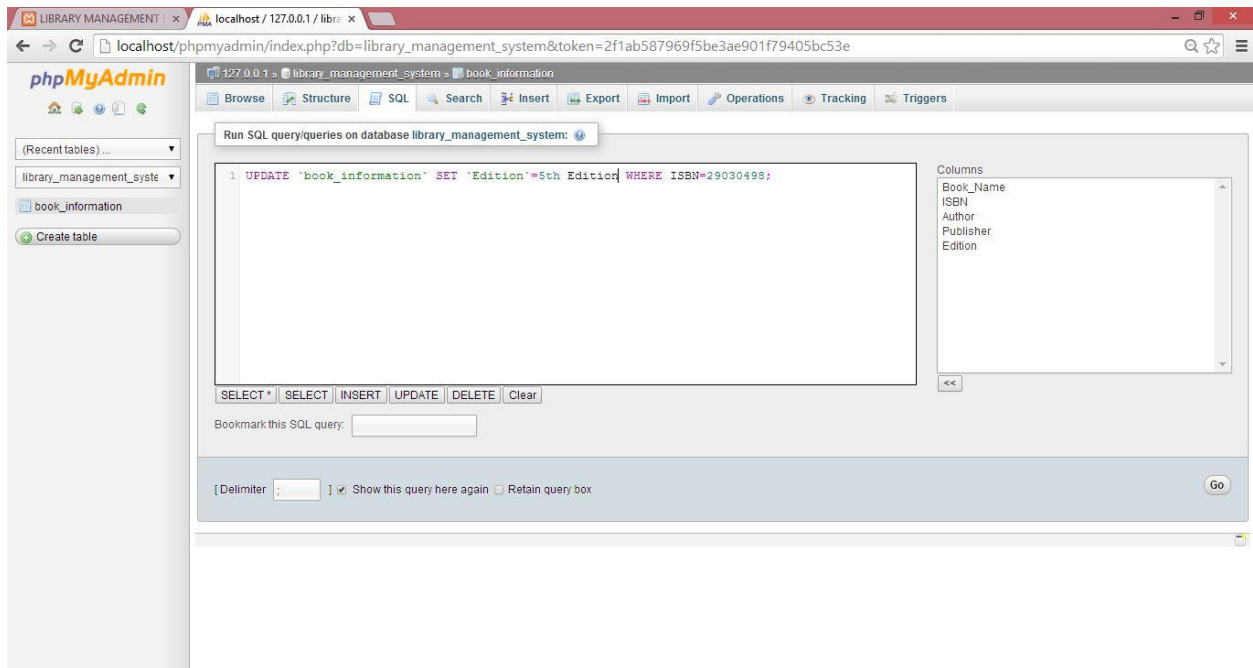
Name	Type	Length/Values	Default	Collation	Attributes	Primary
Edition	VARCHAR	11	None			

Save

Cancel

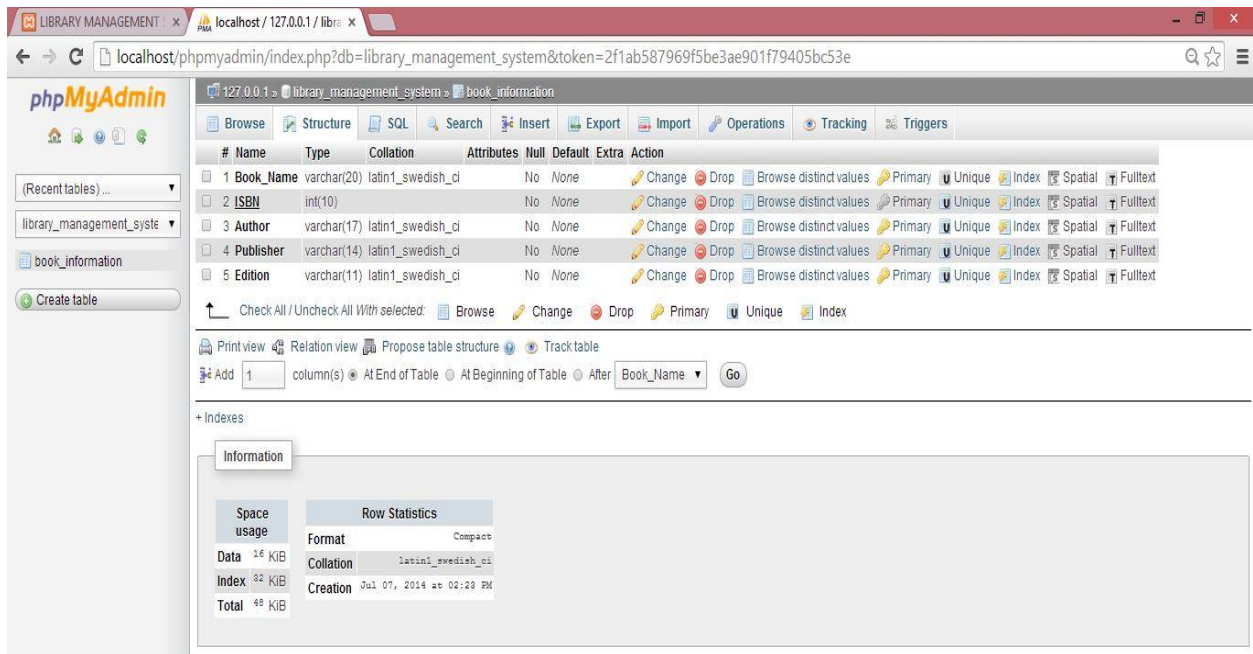
✓ Step 09:

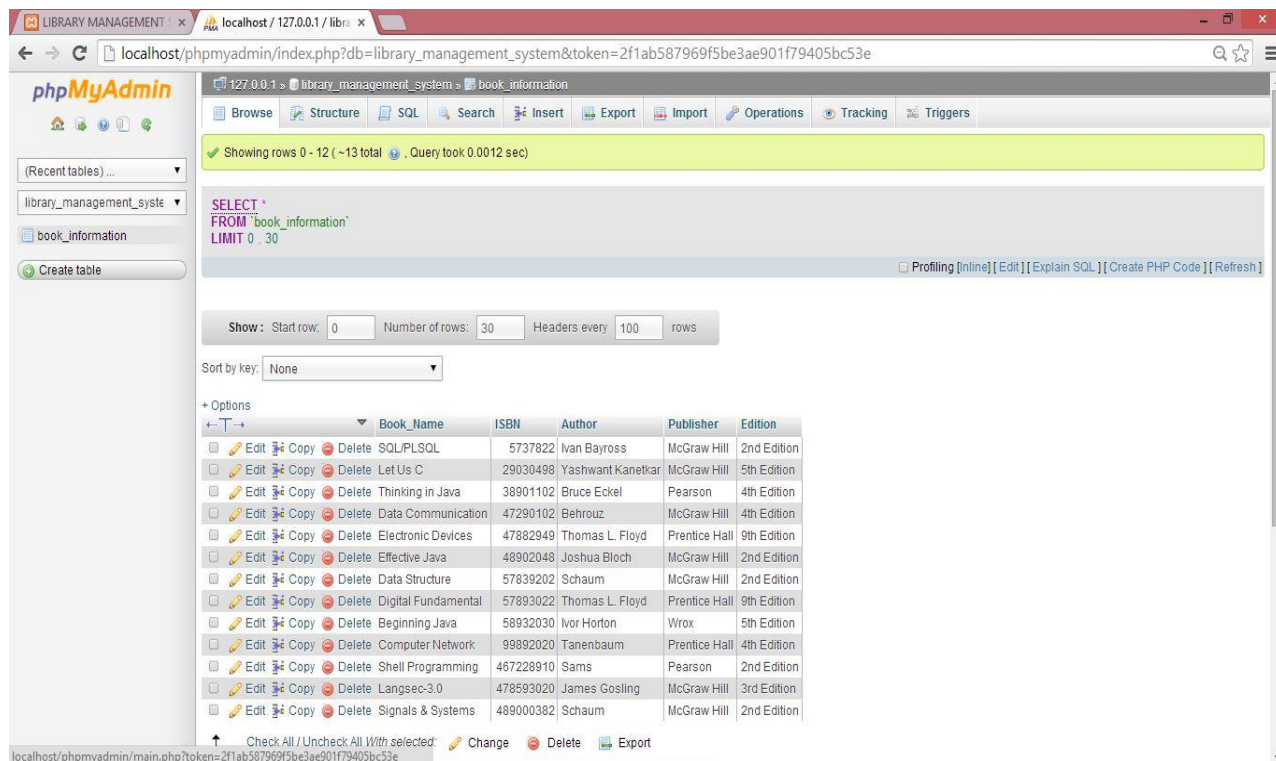
Now we have to update the column and set values.



✓ Step 10:

The final database is:





✓ Step 11:

After creating database if we want to show it in Mozilla Firebox/Google Chrome or any browser we have to connect the database with the php code. So we have to create a php file named **“connect.php”**. To connect a database we need hostname, root, password and database name.

✓ Step 12:

After connecting with database now we have to make another php file where the data of the table will show in the browser. So we have to create a file named **“lib.php”**. Here we have to include **“connect.php”** for connecting with the database.

✓ Step 13:

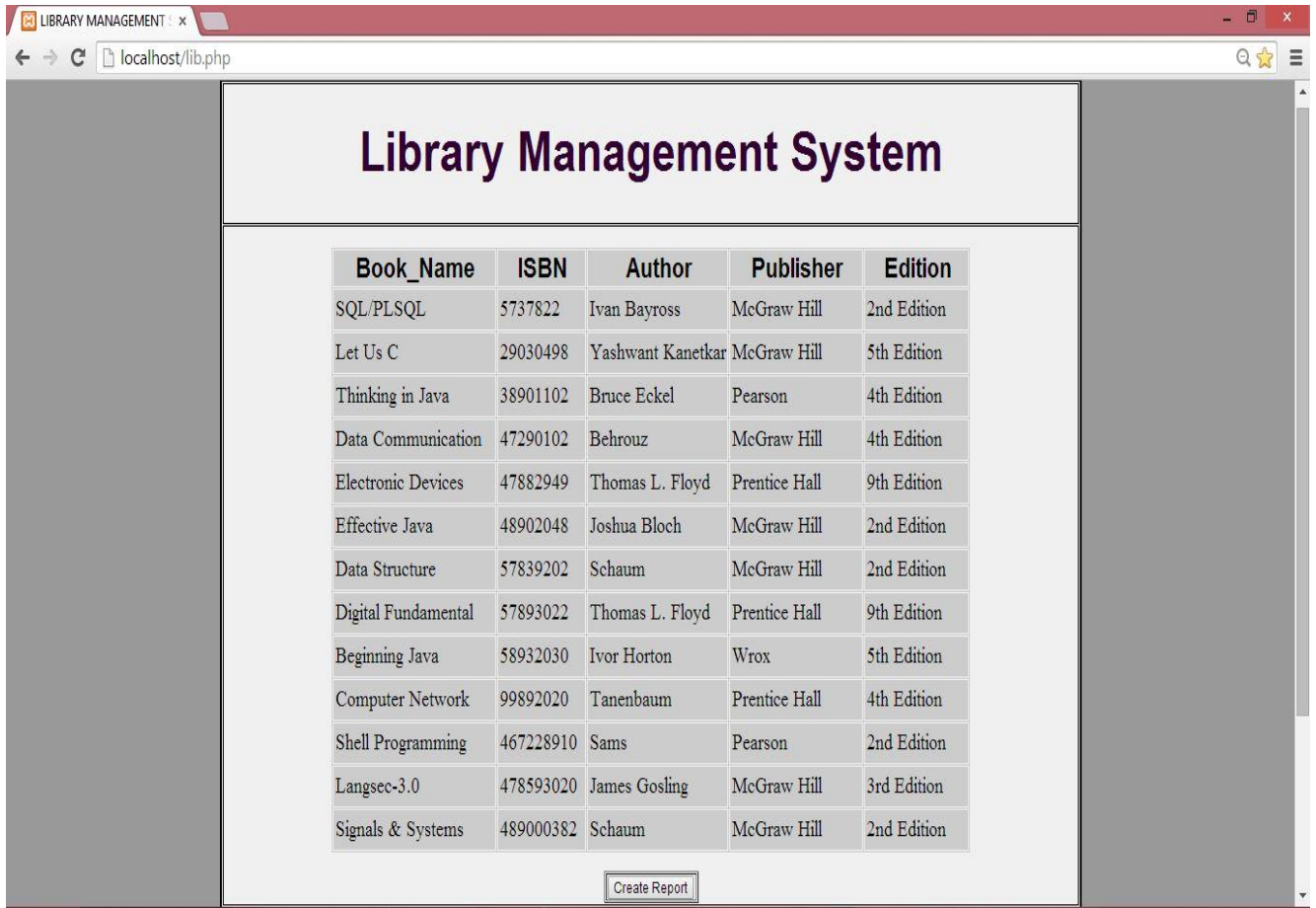
For opening pdf file we have to generate it with fpdf. For this we have to open a php file named **“report.php”**. Here we have to include **“connect.php”** file and require the **“fpdf/fpdf.php”** file.

✓ Step 14:

Now we need a php file to open pdf of the table which is named by **“fpdf.php”**. fpdf.php file will generate the pdf file.

Output:

After finishing all process the output is:

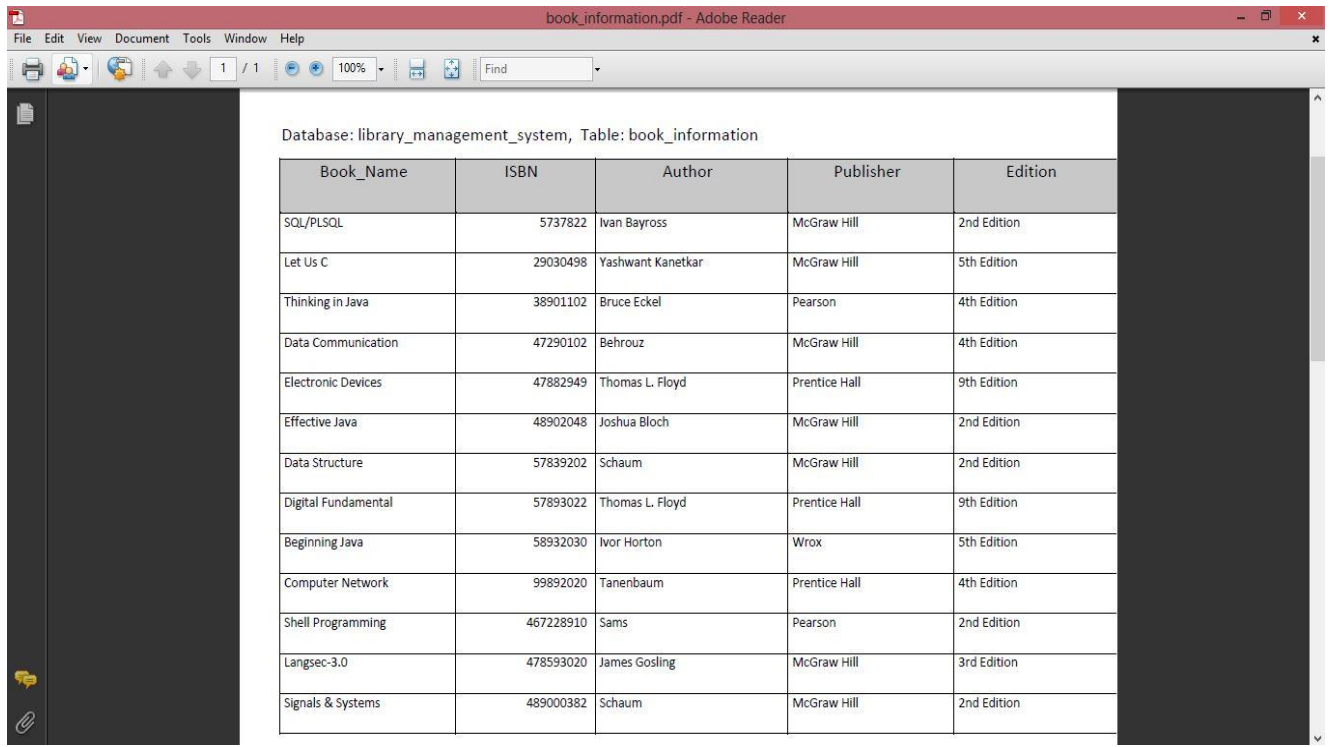


The screenshot shows a web browser window with the title 'LIBRARY MANAGEMENT : x' and the address bar displaying 'localhost/lib.php'. The main content area features a large heading 'Library Management System' in a dark purple font. Below the heading is a table with 5 columns: Book_Name, ISBN, Author, Publisher, and Edition. The table contains 15 rows of book data. At the bottom center of the table area is a button labeled 'Create Report'.

Book_Name	ISBN	Author	Publisher	Edition
SQL/PLSQL	5737822	Ivan Bayross	McGraw Hill	2nd Edition
Let Us C	29030498	Yashwant Kanetkar	McGraw Hill	5th Edition
Thinking in Java	38901102	Bruce Eckel	Pearson	4th Edition
Data Communication	47290102	Behrouz	McGraw Hill	4th Edition
Electronic Devices	47882949	Thomas L. Floyd	Prentice Hall	9th Edition
Effective Java	48902048	Joshua Bloch	McGraw Hill	2nd Edition
Data Structure	57839202	Schaum	McGraw Hill	2nd Edition
Digital Fundamental	57893022	Thomas L. Floyd	Prentice Hall	9th Edition
Beginning Java	58932030	Ivor Horton	Wrox	5th Edition
Computer Network	99892020	Tanenbaum	Prentice Hall	4th Edition
Shell Programming	467228910	Sams	Pearson	2nd Edition
Langsec-3.0	478593020	James Gosling	McGraw Hill	3rd Edition
Signals & Systems	489000382	Schaum	McGraw Hill	2nd Edition

Create Report

After clicking the “Create Report” button a pdf file has been opened.



book_information.pdf - Adobe Reader

File Edit View Document Tools Window Help

1 / 1 100% Find

Database: library_management_system, Table: book_information

Book_Name	ISBN	Author	Publisher	Edition
SQL/PLSQL	5737822	Ivan Bayross	McGraw Hill	2nd Edition
Let Us C	29030498	Yashwant Kanetkar	McGraw Hill	5th Edition
Thinking in Java	38901102	Bruce Eckel	Pearson	4th Edition
Data Communication	47290102	Behrouz	McGraw Hill	4th Edition
Electronic Devices	47882949	Thomas L. Floyd	Prentice Hall	9th Edition
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Beginning Java	58932030	Ivor Horton	Wrox	5th Edition
Computer Network	99892020	Tanenbaum	Prentice Hall	4th Edition
Shell Programming	467228910	Sams	Pearson	2nd Edition
Langsec-3.0	478593020	James Gosling	McGraw Hill	3rd Edition
Signals & Systems	489000382	Schaum	McGraw Hill	2nd Edition