

# SQL PROJECT :- Books Store Management System

I am going to build a project based on books store management system. I track the all information about books in a store and its prices, status of book and how many of books are available in store.

Step 1:-I have created data base name books\_stores and branch table by using the database

The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' panel shows a list of databases, with 'pga44' selected. The main editor window contains SQL code to create a database and a table. The code is as follows:

```
1 # Create a Database called 'Books_Stores'
2 CREATE DATABASE Books_Stores;
3 USE Books_Stores;
4
5 # create table "Branch"
6 CREATE TABLE Branch
7 (
8   Branch_Code VARCHAR(10) PRIMARY KEY,
9   Manager_id VARCHAR(10),
10  Branch_address VARCHAR(30),
11  Contact_Number VARCHAR(15)
12 );
13 DESC branch;
14
```

Below the SQL editor, the 'Result Grid' shows the structure of the 'Branch' table:

Field	Type	Null	Key	Default	Extra
Branch_Code	varchar(10)	NO	PRI	HULL	
Manager_id	varchar(10)	YES		HULL	
Branch_address	varchar(30)	YES		HULL	
Contact_Number	varchar(15)	YES		HULL	

At the bottom, the 'Output' panel shows the execution results:

#	Time	Action	Message	Duration / Fetch
2	22:25:03	USE Books_Stores	0 row(s) affected	0.000 sec
3	22:25:07	DESC branch	4 row(s) returned	0.000 sec / 0.000 sec

The Windows taskbar at the bottom shows the system clock as 22:25 on 10-02-2025.

## Step 2:- I have created Employee table

The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' panel shows a tree view with 'books\_stores' expanded, containing 'Tables', 'Views', 'Stored Procedures', and 'Functions'. Below this, the 'Schema: pga44' is selected. The main editor window shows the SQL script for creating the 'Employees' table:

```
15 # Create table "Employees"
16 CREATE TABLE Employees
17 (
18     Employee_id VARCHAR(30) PRIMARY KEY,
19     Employee_name VARCHAR(30),
20     Position_of_emplyee VARCHAR(30),
21     Salary DECIMAL(10,2)
22 );
23 DESC Employees;
```

Below the SQL editor, the 'Result Grid' shows the table structure for 'Employees':

Field	Type	Null	Key	Default	Extra
Employee_id	varchar(30)	NO	PRI	NULL	
Employee_name	varchar(30)	YES		NULL	
Position_of_emplyee	varchar(30)	YES		NULL	
Salary	decimal(10,2)	YES		NULL	
branch_no	varchar(10)	YES	MUL	NULL	

At the bottom, the 'Output' panel shows the 'Action Output' for the 'DESC Employees' command, indicating that 5 row(s) were returned.

On the right side of the interface, a message states: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."

## Step 3:- I created Customers Table

The screenshot shows the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows the 'books\_stores' database selected. The main editor displays the SQL code to create the 'Customers' table and a command to describe it. Below the editor, the 'Result Grid' shows the table's structure. On the right, a 'SQLAdditions' pane contains a message about context help. At the bottom, the 'Output' pane shows the results of the 'DESC' commands.

```
30 • CREATE TABLE Customers
31 (
32     Customer_Id VARCHAR(20) PRIMARY KEY,
33     Customer_name VARCHAR(30) not null,
34     Customer_address VARCHAR(30) not null,
35     Register_date DATE
36 );
37 • DESC Customers;
```

Field	Type	Null	Key	Default	Extra
Customer_Id	varchar(20)	NO	PRI	HULL	
Customer_name	varchar(30)	NO		HULL	
Customer_address	varchar(30)	NO		HULL	
Register_date	date	YES		HULL	

Result 3 x

#	Time	Action	Message	Duration / Fetch
4	22:25:53	DESC Employees	5 row(s) returned	0.000 sec / 0.000 sec
5	22:26:20	DESC Customers	4 row(s) returned	0.000 sec / 0.000 sec

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

## Step 4:- I created Books table

**SCHEMAS**

Filter objects

- books\_stores
  - Tables
    - books
    - branch
    - customers
    - employees
    - issuestatus
    - returnstatus
  - Views
  - Stored Procedures
  - Functions
- ciet
- ciet1

Administration Schemas

Information

Schema: books\_stores

```
44 • CREATE TABLE Books
45 (
46   ISBN VARCHAR(10) PRIMARY KEY,
47   Book_title VARCHAR(50),
48   Category VARCHAR(30),
49   Rental_Price DECIMAL(10,2),
50   Status ENUM('Yes','No'),
51   Author VARCHAR(30),
52   Publisher VARCHAR(30)
53 );
54 • DESC Books;
55
56
57 • alter TABLE books MODIFY COLUMN ISBN VARCHAR(30);
```

Result Grid

Filter Rows: | Export: | Wrap Cell Contents: |

Field	Type	Null	Key	Default	Extra
ISBN	varchar(30)	NO	PRI	NULL	
Book_title	varchar(60)	YES		NULL	
Category	varchar(30)	YES		NULL	
Rental_Price	decimal(10,2)	YES		NULL	
Status	enum('Yes','No')	YES		NULL	
Author	varchar(30)	YES		NULL	
Publisher	varchar(30)	YES		NULL	

Result 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 5	22:26:20	DESC Customers	4 row(s) returned	0.000 sec / 0.000 sec
✓ 6	22:26:37	DESC Books	7 row(s) returned	0.015 sec / 0.000 sec

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Object Info

Session

3 Top Stories  
'Zero check kar li...



Search

ENG  
IN22:26  
10-02-2025



## Step 5:- I created issuestatus table

SCHEMAS

Filter objects

books\_stores

Tables

books

branch

customers

employees

issuestatus

returnstatus

Views

Stored Procedures

Functions

ciet

ciet1

Administration

Schemas

Information

Schema: books\_stores

Object Info

Session

Books\_Stores

Don't Limit

60 • CREATE TABLE IssueStatus

61 • (

62 • Issue\_Id VARCHAR(10) PRIMARY KEY,

63 • Issued\_cust\_id VARCHAR(30),

64 • Issued\_book\_name VARCHAR(80),

65 • Issue\_date DATE,

66 • Isbn\_book VARCHAR(30),

67 • FOREIGN KEY (Issued\_cust\_id) REFERENCES Customers(Customer\_id) on DELETE CASCADE,

68 • FOREIGN KEY (Isbn\_book) REFERENCES books(ISBN) on DELETE CASCADE

69 • );

70 • DESC issuestatus;

71 • ALTER TABLE issuestatus MODIFY COLUMN Issued\_book\_name VARCHAR(80) not null;

72 • ALTER TABLE issuestatus MODIFY COLUMN Isbn\_book VARCHAR(25) not null;

73 •

Result Grid

Filter Rows:

Export:

Wrap Cell Contents:

Field

Type

Null

Key

Default

Extra

Issue\_Id

varchar(10)

NO

PRI

NULL

Issued\_cust\_id

varchar(30)

YES

MUL

NULL

Issued\_book\_name

varchar(80)

NO

NULL

Issue\_date

date

YES

NULL

Isbn\_book

varchar(30)

YES

MUL

NULL

Result 5

Read Only

Context Help

Snippets

Output

Action Output

#

Time

Action

Message

Duration / Fetch

6

22:26:37

DESC Books

7 row(s) returned

0.015 sec / 0.000 sec

7

22:27:25

DESC issuestatus

5 row(s) returned

0.000 sec / 0.000 sec

SQLAdditions

Jump to

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Result Grid

Form Editor

## Step 6:- I created ReturnStatus table

Navigator

SCHEMAS

Filter objects

books\_stores

Tables

- books
- branch
- customers
- employees
- issuestatus
- returnstatus

Views

Stored Procedures

Functions

Administration

Schemas

Information

Schema: books\_stores

Books\_Stores

```
75 # Create table "ReturnStatus"
76 CREATE TABLE ReturnStatus
77 (
78     Return_id VARCHAR(10) PRIMARY KEY,
79     Return_cust_id VARCHAR(30) not null,
80     Return_book_name VARCHAR(80),
81     Return_date DATE,
82     isbn_book VARCHAR(25) not null,
83     FOREIGN KEY (isbn_book) REFERENCES books(ISBN) on DELETE CASCADE
84 );
85 DESC returnstatus;
```

Result Grid

Field	Type	Null	Key	Default	Extra
Return_id	varchar(10)	NO	PRI	NULL	
Return_cust_id	varchar(30)	NO		NULL	
Return_book_name	varchar(80)	YES		NULL	
Return_date	date	YES		NULL	
isbn_book	varchar(25)	NO	MUL	NULL	

Result 6

Output

Action Output

#	Time	Action	Message	Duration / Fetch
7	22:27:25	DESC issuestatus	5 row(s) returned	0.000 sec / 0.000 sec
8	22:27:53	DESC returnstatus	5 row(s) returned	0.016 sec / 0.000 sec

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Object Info

Session

Air: Moderate Now

Search

ENG IN

22:27 10-02-2025