

```
C:\Users\cooltwin>mysql -h localhost -u root -p
Enter password: xxxxxxxxxx
```

```
mysql> create database Library_Management_System;
Query OK, 1 row affected (0.00 sec)
```

```
mysql> use Library_Management_System;
Database changed
```

### **BOOK TABLE:-**

```
mysql> create table BOOK (Book_id char(10) not null, Title varchar(200)
not null, Constraint pk_Book primary key(Book_id));
Query OK, 0 rows affected (0.28 sec)
```

```
mysql> source C:\Users\cooltwin\Desktop\database\db project\sql_book.sql
```

### **LIBRARY BRANCH TABLE :-**

```
mysql> create table LIBRARY_BRANCH (Branch_id int not null
auto_increment, Branch_name varchar(100) not null, Address varchar(500),
Constrait pk_Library_branch primary key(Branch_id), Constraint
uk_Library_branch unique(Branch_name), Constraint uk_Lib_branch unique
(Address));
Query OK, 0 rows affected (0.28 sec)
```

```
mysql> source C:\Users\cooltwin\Desktop\database\db
project\sql_library_branch.sql
Query OK, 1 row affected (0.03 sec)
```

```
Query OK, 1 row affected (0.04 sec)
```

```
Query OK, 1 row affected (0.06 sec)
```

```
Query OK, 1 row affected (0.07 sec)
```

```
Query OK, 1 row affected (0.03 sec)
```

### **BOOK COPIES TABLE:-**

```
mysql> create table BOOK_COPIES (Book_id char(10) not null, Branch_id int
not null, No_of_copies int not null, Constraint pk_book_copies primary
key(Book_id,Branch_id), Constraint fk_book_copies_bookid foreign key
(Book_id) references BOOK(Book_id) on delete cascade on update cascade,
Constraint fk_book_copies_branchid foreign key (Branch_id) references
LIBRARY_BRANCH (Branch_id) on delete cascade on update cascade);
```

```
Query OK, 0 rows affected (0.37 sec)
```

```
mysql> source C:\Users\cooltwin\Desktop\database\db
project\sql_book_copies.sql
```

### **BORROWER TABLE:-**

```
mysql> create table borrower(Card_no int not null auto_increment, Fname
varchar(20) not null, Lname varchar(30) not null, Add
ress varchar(200) not null, Phone char(14) not null, constraint
pk_borrower PRIMARY KEY(Card_no), constraint uk_borrower_card
holder UNIQUE KEY(Fname, Lname, Address));
Query OK, 0 rows affected (0.27 sec)
```

```
source C:\Users\cooltwin\Desktop\database\db project\sql_borrower.sql
```

```
mysql> alter table borrower modify column Phone null;
```

### **BOOK AUTHORS TABLE:-**

```
mysql> create table BOOK_AUTHORS(Book_id char(10) not null, Author_name
varchar(200) not null, Type int not null, Constraint
pk_book_authors PRIMARY KEY(Book_id, Author_name), Constraint
fk_book_authors FOREIGN KEY(Book_id) references book(Book_id) o
n delete cascade on update cascade);
Query OK, 0 rows affected (0.29 sec)
```

```
source C:\Users\cooltwin\Desktop\database\db project\sql_book_authors.sql
```

### **BOOK LOANS TABLE:-**

```
mysql> create table BOOK_LOANS (Loan_id int not null auto_increment,
Book_id char(10) not null, Branch_id int not null, Card_no int not
null, Date_out date not null, Due_date date not null, Date_in
date, Constraint pk_book_loans primary key(Loan_id), Constraint
fk_book_loans_bookid foreign key (Book_id) references BOOK(Book_id) on
delete cascade on update cascade, Constraint fk_book_loans_branchid
foreign key (Branch_id) references LIBRARY_BRANCH (Branch_id) on delete
cascade on update cascade, Constraint fk_book_loans_cardno FOREIGN
KEY(Card_no) references BORROWER(Card_no) on delete cascade on update
cascade);
```

```
source C:\Users\cooltwin\Desktop\database\db project\sql_book_loans.sql
```

```
mysql> alter table book_loans auto_increment =12;
```

### **FINES TABLE :-**

```
mysql> create table FINES (Loan_id int not null, Fine_amt numeric(6,2)
not null, Paid boolean not null, Constraint pk_fines pr
imary key(Loan_id), Constraint fk_fines_loanid foreign key (Loan_id)
references BOOK_LOANS(Loan_id) on delete cascade on update cascade);
```

```
source C:\Users\cooltwin\Desktop\database\db project\sql_fines.sql
```