

Table structure of LMS

Creating the database

```
mysql> use lms
Database changed
```

Tables within the database

```
mysql> show tables;
+-----+
| Tables_in_lms |
+-----+
| book_borrowings |
| books |
| faculties |
| students |
+-----+
```

Table structure of book_borrowings

```
mysql> desc book_borrowings;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| BORROWING_ID | int | NO | PRI | NULL | auto_increment |
| BOOK_ID | int | NO | MUL | NULL | |
| BORROWER_ID | int | NO | MUL | NULL | |
| BORROWER_TYPE | enum('STUDENT','FACULTY') | NO | | NULL | |
| BORROWED_DATE | date | NO | | NULL | |
| DUE_DATE | date | NO | | NULL | |
| RETURNED_DATE | date | YES | | NULL | |
| FINE_AMOUNT | decimal(6,2) | YES | | 0.00 | |
+-----+-----+-----+-----+-----+-----+
```

Table structure of books

```
mysql> desc books;
```

Field	Type	Null	Key	Default	Extra
BOOK_ID	int	NO	PRI	NULL	auto_increment
NAME	varchar(100)	NO		NULL	
AUTHOR	varchar(100)	NO		NULL	
STOCK	int	NO		0	

Table structure of faculties

```
mysql> desc faculties;
```

Field	Type	Null	Key	Default	Extra
FACULTY_ID	int	NO	PRI	NULL	auto_increment
NAME	varchar(100)	NO		NULL	
EMAIL	varchar(100)	NO	UNI	NULL	
BOOKS_BORROWED	int	YES		0	
FINES	decimal(6,2)	YES		0.00	

Table structure of students

```
mysql> desc students;
```

Field	Type	Null	Key	Default	Extra
STUDENT_ID	int	NO	PRI	NULL	auto_increment
NAME	varchar(100)	NO		NULL	
EMAIL	varchar(100)	NO	UNI	NULL	
BOOKS_BORROWED	int	YES		0	
FINES	decimal(6,2)	YES		0.00	