

```
mysql> CREATE DATABASE LibraryDB;
Query OK, 1 row affected (0.07 sec)
```

```
mysql> USE LibraryDB;
Database changed
```

```
mysql> SHOW TABLES;
```

```
+-----+
| Tables_in_librarydb |
+-----+
| authors              |
| bookauthors          |
| books                |
| categories            |
| loans                |
| members              |
+-----+
6 rows in set (0.04 sec)
```

```
mysql> DESCRIBE Books;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| BookID     | int       | NO   | PRI | NULL    | auto_increment |
| Title      | varchar(100) | NO   |     | NULL    |               |
| ISBN       | varchar(20) | YES  | UNI | NULL    |               |
| Publisher  | varchar(100) | YES  |     | NULL    |               |
| PublicationYear | year      | YES  |     | NULL    |               |
| CategoryID | int       | YES  | MUL | NULL    |               |
+-----+-----+-----+-----+-----+-----+
```

```
6 rows in set (0.01 sec)
```

```
mysql> DESCRIBE Authors;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| AuthorID   | int       | NO   | PRI | NULL    | auto_increment |
| FirstName  | varchar(50) | YES  |     | NULL    |               |
| LastName   | varchar(50) | YES  |     | NULL    |               |
| DOB        | date      | YES  |     | NULL    |               |
+-----+-----+-----+-----+-----+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> DESCRIBE Members;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| MemberID   | int       | NO   | PRI | NULL    | auto_increment |
| FirstName  | varchar(50) | YES  |     | NULL    |               |
| LastName   | varchar(50) | YES  |     | NULL    |               |
| Email      | varchar(100) | YES  | UNI | NULL    |               |
| Phone      | varchar(15) | YES  |     | NULL    |               |
| MembershipDate | date      | YES  |     | NULL    |               |
+-----+-----+-----+-----+-----+-----+
```

```
6 rows in set (0.00 sec)
```

```
mysql> DESCRIBE Loans;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| LoanID     | int       | NO   | PRI | NULL    | auto_increment |
| BookID     | int       | YES  | MUL | NULL    |               |
| MemberID   | int       | YES  | MUL | NULL    |               |
| LoanDate   | date      | YES  |     | NULL    |               |
| DueDate    | date      | YES  |     | NULL    |               |
| ReturnDate | date      | YES  |     | NULL    |               |
+-----+-----+-----+-----+-----+-----+
```

```
6 rows in set (0.00 sec)
```

```
mysql> DESCRIBE BookAuthors;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| BookID     | int       | NO   | PRI | NULL    |               |
| AuthorID   | int       | NO   | PRI | NULL    |               |
+-----+-----+-----+-----+-----+-----+
```

```
2 rows in set (0.00 sec)
```

```
mysql> DESCRIBE Categories;
```

```
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CategoryID | int       | NO   | PRI | NULL    | auto_increment |
| CategoryName | varchar(100) | NO   |     | NULL    |               |
+-----+-----+-----+-----+-----+-----+
```

```
2 rows in set (0.00 sec)
```