```
mysql> USE libDB;
Database changed
mysql> CREATE TABLE Authors(author_id INT PRIMARY KEY, name VARCHAR(20) NOT NULL, nationality VARCHAR(30));
Query OK, 0 rows affected (0.364 sec)
mysql> DESCRIBE Authors;
 Field
                              Null | Key
                                           Default
                                                     Extra
               Type
 author_id
               int
                              NO
                                     PRI
                                           NULL
               varchar(20)
                              NO
                                           NULL
 name
 nationality
               varchar(30)
                              YES
                                           NULL
3 rows in set (0.193 sec)
mysql> CREATE TABLE Books(book_id INT PRIMARY KEY, title VARCHAR(30), published_year YEAR, author_id INT NOT NULL, FOREIGN KEY (autho
r_id) REFERENCES Authors(author_id));
Query OK, 0 rows affected (0.756 sec)
mysql> DESCRIBE Books;
 Field
                                Null
                  Type
                                       Key
                                              Default | Extra
 book_id
                                        PRI
                                              NULL
                  int
                                 NO
```

mysql> CREATE DATABASE libDB;

title

author_id

published_year

4 rows in set (0.040 sec)

Query OK, 1 row affected (0.207 sec)

varchar(30)

year

int

YES

YES

NO

NULL

NULL

NULL

MUL

mysql> CREATE TABLE Members(member_id INT PRIMARY KEY, name VARCHAR(30) NOT NULL, email VARCHAR(40) UNIQUE, phone VARCHAR(15),join_da te DATE NOT NULL); Query OK, 0 rows affected (0.535 sec)

mysql> DESCRIBE Members;

Field	Type	Null	Key	Default	Extra
member_id	int	NO	PRI	NULL	
name	varchar(30)	NO		NULL	
email	varchar(40)	YES	UNI	NULL	
phone	varchar(15)	YES		NULL	i
join_date		l NO		NULL	

5 rows in set (0.040 sec)

mysql> CREATE TABLE Borrowing(borrow_id INT PRIMARY KEY, book_id INT NOT NULL, member_id INT NOT NULL, borrow_date DATE NOT NULL, ret urn_date DATE, FOREIGN KEY (book_id) REFERENCES Books(book_id), FOREIGN KEY (member_id) REFERENCES Members(member_id)); Query OK, 0 rows affected (0.842 sec)

mysql> DESCRIBE Borrowing;

Field	Туре	Null	Key	Default	Extra
borrow_id	int	NO	PRI	NULL	1
book_id	int	NO	MUL	NULL	İ
member_id	int	NO	MUL	NULL	İ
borrow_date	date	NO		NULL	į .
return_date	date	YES	i	NULL	

5 rows in set (0.042 sec)

mysql> CREATE TABLE Fines(fine_id INT PRIMARY KEY, borrow_id INT NOT NULL, amount DECIMAL(7,2) NOT NULL, paid BOOLEAN DEFAULT FALSE, FOREIGN KEY (borrow_id) REFERENCES Borrowing(borrow_id)); Query OK, 0 rows affected (0.590 sec)

mysql> DESCRIBE fines;

Field	Туре	Null	Key	Default	Extra
fine_id	int	NO	PRI	NULL	1
borrow_id	int	NO I	MUL	NULL	Ì
amount	decimal(7,2)	NO I		NULL	
paid	tinyint(1)	YES		0	

4 rows in set (0.039 sec)

