

SQL Lab Question

Question. Create following tables.

Author Table

```
mysql> create table author(id int primary key, fname varchar(100) not null, lname varchar(100), phone varchar(15));
Query OK, 0 rows affected (0.14 sec)

mysql> desc author;
+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+
| id    | int    | NO   | PRI | NULL    |       |
| fname | varchar(100)| NO  |     | NULL    |       |
| lname | varchar(100)| YES |     | NULL    |       |
| phone | varchar(15) | YES |     | NULL    |       |
+-----+-----+-----+-----+
4 rows in set (0.03 sec)
```

```
mysql> insert into author values
-> (1, 'Chetan Bhagat', 'chetan@gmail.com', '9876543210'),
-> (2, 'Arundhati Roy', 'arundhati@gmail.com', '9876543220'),
-> (3, 'R. K. Narayan', 'rknarayan@gmail.com', '9876543230');
Query OK, 3 rows affected (0.03 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> select * from author;
+-----+-----+-----+-----+
| id  | fname | lname | phone |
+-----+-----+-----+-----+
| 1   | Chetan Bhagat | chetan@gmail.com | 9876543210 |
| 2   | Arundhati Roy | arundhati@gmail.com | 9876543220 |
| 3   | R. K. Narayan | rknarayan@gmail.com | 9876543230 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Publisher Table

```
mysql> create table publisher(id int primary key, publishername varchar (100) not null, address1 varchar(200), address2 varchar(200),
city varchar(100), phone varchar(20),email varchar(100));
Query OK, 0 rows affected (0.09 sec)

mysql> desc publisher;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra |
+-----+-----+-----+-----+
| id    | int    | NO   | PRI | NULL    |       |
| publishername | varchar(100)| NO  |     | NULL    |       |
| address1 | varchar(200)| YES |     | NULL    |       |
| address2 | varchar(200)| YES |     | NULL    |       |
| city   | varchar(100)| YES |     | NULL    |       |
| phone  | varchar(20) | YES |     | NULL    |       |
| email  | varchar(100)| YES |     | NULL    |       |
+-----+-----+-----+-----+
7 rows in set (0.01 sec)
```

```
mysql> insert into publisher values
-> (1, 'Penguin India', 'MG Road', 'Connaught Place', 'Delhi', '0112345678', 'penguin@gmail.com'),
-> (2, 'HarperCollins', 'Park Street', 'Sector 5', 'Kolkata', '0332345678', 'harper@gmail.com'),
-> (3, 'Oxford Press', 'Church Road', 'Central Area', 'Mumbai', '0222345678', 'oxford@gmail.com');
Query OK, 3 rows affected (0.02 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> select * from publisher;
+----+-----+-----+-----+-----+-----+-----+
| id | publishername | address1 | address2 | city | phone | email |
+----+-----+-----+-----+-----+-----+-----+
| 1 | Penguin India | MG Road | Connaught Place | Delhi | 0112345678 | penguin@gmail.com |
| 2 | HarperCollins | Park Street | Sector 5 | Kolkata | 0332345678 | harper@gmail.com |
| 3 | Oxford Press | Church Road | Central Area | Mumbai | 0222345678 | oxford@gmail.com |
+----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Book Table

```
mysql> create table book(
    -> id int primary key, title varchar(200) not null,
    -> authorlid int,
    -> author2id int,
    -> price decimal(10,2),
    -> noofpage int,
    -> edition varchar(50),pubid int,
    -> foreign key (authorlid) references author(id),
    -> foreign key (author2id) references author(id),
    -> foreign key (pubid) references publisher(id));
Query OK, 0 rows affected (0.18 sec)
```

```
mysql> desc book;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | int | NO | PRI | NULL | |
| title | varchar(200) | NO | | NULL | |
| authorlid | int | YES | MUL | NULL | |
| author2id | int | YES | MUL | NULL | |
| price | decimal(10,2) | YES | | NULL | |
| noofpage | int | YES | | NULL | |
| edition | varchar(50) | YES | | NULL | |
| pubid | int | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)

mysql> insert into book values
    -> (1, 'Five Point Someone', 1, NULL, 399.00, 270, '1st', 1),
    -> (2, 'The God of Small Things', 2, NULL, 499.50, 340, '2nd', 2),
    -> (3, 'Malgudi Days', 3, NULL, 299.00, 220, '3rd', 3),
    -> (4, 'The Guide', 3, NULL, 350.00, 300, '2nd', 1),
    -> (5, 'Joint Writing Book', 1, 2, 650.00, 420, '1st', 2);
Query OK, 5 rows affected (0.02 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> select * from book;
+----+-----+-----+-----+-----+-----+-----+-----+
| id | title | authorlid | author2id | price | noofpage | edition | pubid |
+----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Five Point Someone | 1 | NULL | 399.00 | 270 | 1st | 1 |
| 2 | The God of Small Things | 2 | NULL | 499.50 | 340 | 2nd | 2 |
| 3 | Malgudi Days | 3 | NULL | 299.00 | 220 | 3rd | 3 |
| 4 | The Guide | 3 | NULL | 350.00 | 300 | 2nd | 1 |
| 5 | Joint Writing Book | 1 | 2 | 650.00 | 420 | 1st | 2 |
+----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```