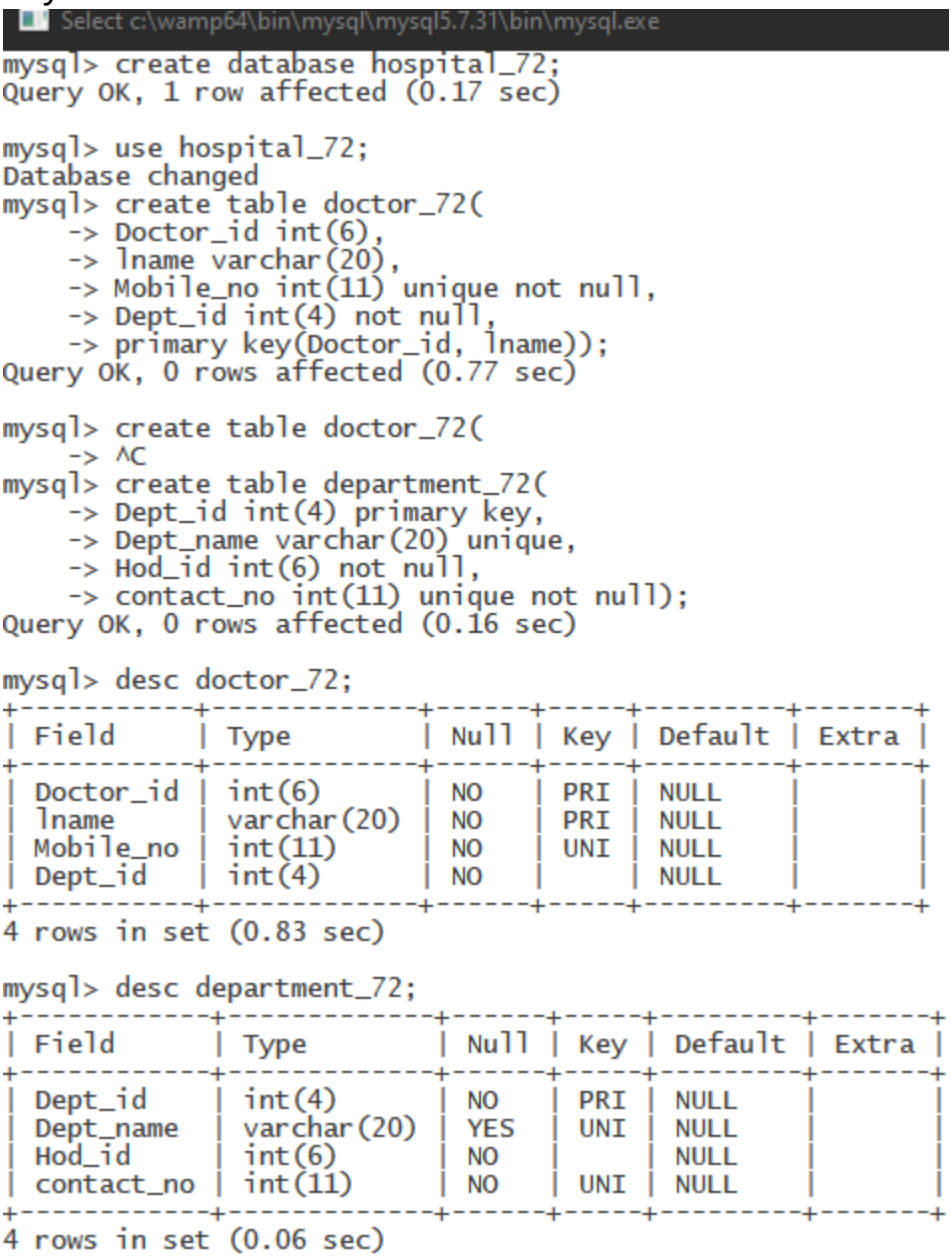
OUTPUT:

1. Create 2 relations with the given schema
2. DOCTOR_last two digits of your roll no
3. Describe the relations after the basic structure is created without foreign keys.



```
Select c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
mysql> create database hospital_72;
Query OK, 1 row affected (0.17 sec)

mysql> use hospital_72;
Database changed
mysql> create table doctor_72(
    -> Doctor_id int(6),
    -> lname varchar(20),
    -> Mobile_no int(11) unique not null,
    -> Dept_id int(4) not null,
    -> primary key(Doctor_id, lname));
Query OK, 0 rows affected (0.77 sec)

mysql> create table doctor_72(
    -> ^C
mysql> create table department_72(
    -> Dept_id int(4) primary key,
    -> Dept_name varchar(20) unique,
    -> Hod_id int(6) not null,
    -> contact_no int(11) unique not null);
Query OK, 0 rows affected (0.16 sec)

mysql> desc doctor_72;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Doctor_id | int(6)      | NO   | PRI | NULL    |       |
| lname     | varchar(20) | NO   | PRI | NULL    |       |
| Mobile_no | int(11)     | NO   | UNI | NULL    |       |
| Dept_id   | int(4)      | NO   |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
4 rows in set (0.83 sec)

mysql> desc department_72;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| Dept_id    | int(4)      | NO   | PRI | NULL    |       |
| Dept_name  | varchar(20) | YES  | UNI | NULL    |       |
| Hod_id     | int(6)      | NO   |     | NULL    |       |
| contact_no | int(11)     | NO   | UNI | NULL    |       |
+------------+-------------+------+-----+---------+-------+
4 rows in set (0.06 sec)
```

```
mysql> alter table department_72
    -> add lname varchar(20) not null;
Query OK, 0 rows affected (0.30 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc department_72;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| Dept_id    | int(4)      | NO   | PRI | NULL    |       |
| Dept_name  | varchar(20) | YES  | UNI | NULL    |       |
| Hod_id     | int(6)      | NO   |     | NULL    |       |
| contact_no | int(11)     | NO   | UNI | NULL    |       |
| lname      | varchar(20) | NO   |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
5 rows in set (0.02 sec)
```

4. Describe the final schema for both the relations
   (In the output include all the statements including the alter that are used to obtain the final schema)

```
mysql> alter table department_72
    -> add constraint foreign key(Hod_id) references doctor_72(Doctor_id);
Query OK, 0 rows affected (0.20 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> alter table department_72
    -> add constraint foreign key(lname) references doctor_72(lname);
Query OK, 0 rows affected (0.14 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> alter table doctor_72
    -> add foreign key(Dept_id) references department_72(Dept_id);
Query OK, 0 rows affected (0.14 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> desc department_72;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| Dept_id    | int(4)      | NO   | PRI | NULL    |       |
| Dept_name  | varchar(20) | YES  | UNI | NULL    |       |
| Hod_id     | int(6)      | NO   | MUL | NULL    |       |
| contact_no | int(11)     | NO   | UNI | NULL    |       |
| lname      | varchar(20) | NO   | MUL | NULL    |       |
+------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql> desc doctor_72;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Doctor_id | int(6)      | NO   | PRI | NULL    |       |
| lname     | varchar(20) | NO   | PRI | NULL    |       |
| Mobile_no | int(11)     | NO   | UNI | NULL    |       |
| Dept_id   | int(4)      | NO   | MUL | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
4 rows in set (0.01 sec)
```