

```
mysql>
mysql> CREATE TABLE doctor(
->
->  doctor_id int PRIMARY key AUTO_INCREMENT,
->  doctor_name VARCHAR(30),
->  doctor_age int,
->  doctor_gender VARCHAR(10),
->  doctor_city VARCHAR(20),
->  doctor_year_experience int,
->  doctor_salary int,
->  doctor_specialization VARCHAR(20)
->
-> );
```

Query OK, 0 rows affected (0.01 sec)

```
mysql>
mysql> CREATE TABLE patients(
->
->  patient_id int PRIMARY key AUTO_INCREMENT,
->  patient_name VARCHAR(30),
->  patient_age int,
->  patient_gender VARCHAR(10),
->  patient_city VARCHAR(20),
->  patient_admission_date DATE,
->  patient_status VARCHAR(15),
->  doctor_id int,
->  Foreign Key (doctor_id) REFERENCES doctor(doctor_id)
->
-> );
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> desc doctor;
```

Field	Type	Null	Key	Default	Extra
doctor_id	int(11)	NO	PRI	NULL	auto_increment
doctor_name	varchar(30)	YES		NULL	
doctor_age	int(11)	YES		NULL	
doctor_gender	varchar(10)	YES		NULL	
doctor_city	varchar(20)	YES		NULL	
doctor_year_experience	int(11)	YES		NULL	
doctor_salary	int(11)	YES		NULL	
doctor_specialization	varchar(20)	YES		NULL	

```
+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)
```

```
mysql> desc patients;
```

```
+-----+-----+-----+-----+-----+
| Field          | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+
| patient_id     | int(11)   | NO   | PRI | NULL    | auto_increment |
| patient_name   | varchar(30) | YES  |     | NULL    |              |
| patient_age    | int(11)   | YES  |     | NULL    |              |
| patient_gender | varchar(10) | YES  |     | NULL    |              |
| patient_city   | varchar(20) | YES  |     | NULL    |              |
| patient_admission_date | date      | YES  |     | NULL    |              |
| patient_status | varchar(15) | YES  |     | NULL    |              |
| doctor_id      | int(11)   | YES  | MUL | NULL    |              |
+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)
```

```
mysql> select *from doctor
-> ;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| doctor_id | doctor_name | doctor_age | doctor_gender | doctor_city | doctor_year_experience | doctor_salary | doctor_specialization |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | a | 25 | male | pune | 2 | 20000 | heart surgery |
| 2 | b | 30 | male | mumbai | 5 | 40000 | brain surgery |
| 3 | c | 40 | female | mumbai | 10 | 50000 | cancer |
| 4 | d | 35 | female | pune | 7 | 15000 | eyes |
| 5 | e | 38 | male | pune | 8 | 35000 | bones |
| 6 | f | 45 | male | delhi | 10 | 35000 | skin |
| 7 | g | 27 | female | kolkata | 3 | 20000 | general surgeon |
| 8 | h | 30 | female | pune | 4 | 20000 | general surgeon |
+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

```
mysql> select *from patients;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| patient_id | patient_name | patient_age | patient_gender | patient_city | patient_admission_date | patient_status | doctor_id |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | sam | 25 | male | pune | 2024-02-02 | discharged | 2 |
| 2 | max | 30 | male | mumbai | 2024-01-22 | admitted | 1 |
| 3 | ram | 45 | male | pune | 2024-02-07 | discharged | 3 |
| 4 | neel | 50 | male | mumbai | 2023-02-07 | admitted | 7 |
| 5 | indraneel | 55 | male | pune | 2023-09-27 | admitted | 8 |
| 6 | amit | 22 | male | mumbai | 2023-09-27 | admitted | 5 |
```

7	shivam	17	male	kolkata	2023-09-27	admitted	7
8	shiv	76	male	pune	2024-01-01	discharged	4

8 rows in set (0.00 sec)

3)

```
mysql> alter table doctor rename column doctor_specialization to subject;
```

4)

```
mysql> create table bkup_doctor as select *from doctor;
```

Query OK, 8 rows affected (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 0

```
mysql> create table bkup_patients as select *from patients;
```

Query OK, 8 rows affected (0.01 sec)

Records: 8 Duplicates: 0 Warnings: 0

5)

```
mysql> select *from patients where patient_city='pune' or patient_city='mumbai';
```

patient_id	patient_name	patient_age	patient_gender	patient_city	patient_admission_date	patient_status	doctor_id
1	sam	25	male	pune	2024-02-02	discharged	2
2	max	30	male	mumbai	2024-01-22	admitted	1
3	ram	45	male	pune	2024-02-07	discharged	3
4	neel	50	male	mumbai	2023-02-07	admitted	7
5	indraneel	55	male	pune	2023-09-27	admitted	8
6	amit	22	male	mumbai	2023-09-27	admitted	5
8	shiv	76	male	pune	2024-01-01	discharged	4

7 rows in set (0.00 sec)

6)

```
mysql> select * from doctor where doctor_name like 'A%' and doctor_city='Ahmedabad';
```

Empty set (0.00 sec)

7)

```
mysql> select doctor_name from doctor where doctor_year_experience >=4;
```

doctor_name
b
c
d
e
f

```
| h      |  
+-----+  
6 rows in set (0.00 sec)
```

8)

```
mysql> update doctor set doctor_salary = doctor_salary+1000 where doctor_year_experience >  
5;  
Query OK, 4 rows affected (0.00 sec)  
Rows matched: 4  Changed: 4  Warnings: 0
```

9)

```
mysql> select patient_city,count(*) as count_of_patients from patients group by patient_city;  
+-----+-----+  
| patient_city | count_of_patients |  
+-----+-----+  
| kolkata      | 1 |  
| mumbai       | 3 |  
| pune         | 4 |  
+-----+-----+  
3 rows in set (0.00 sec)
```

10)

```
mysql> select patients.patient_name,doctor.doctor_name from patients inner join doctor on  
patients.doctor_id = doctor.doctor_id where patients.patient_status = 'discharged' and  
doctor.doctor_year_experience >3;  
+-----+-----+  
| patient_name | doctor_name |  
+-----+-----+  
| sam          | b           |  
| ram          | c           |  
| shiv         | d           |  
+-----+-----+  
3 rows in set (0.00 sec)
```

11)

```
mysql> create table bkup_patients_1 like patients;  
Query OK, 0 rows affected (0.24 sec)
```

```
mysql> create table bkup_doctor_1 like doctor;  
Query OK, 0 rows affected (0.01 sec)
```

12)

```
mysql> CREATE TABLE photo_table (photo_name_col VARCHAR(30),photo_img_col  
LONGBLOB);
```

Query OK, 0 rows affected (0.01 sec)