```
CREATE TABLE Departmentss (
  dept_id INT PRIMARY KEY,
 dept_name VARCHAR(50)
);
CREATE TABLE Doctor (
  doctor_id INT PRIMARY KEY,
  doctor_name VARCHAR(100),
 dept_id INT,
 FOREIGN KEY (dept_id) REFERENCES Departmentss(dept_id)
);
CREATE TABLE Patientss (
  patient_id INT PRIMARY KEY,
  patient_name VARCHAR(100),
 city VARCHAR(50)
);
CREATE TABLE Appointmentss (
  appointment_id INT PRIMARY KEY,
  patient_id INT,
 doctor_id INT,
  appointment_date DATE,
  diagnosis VARCHAR(255),
 FOREIGN KEY (patient_id) REFERENCES Patientss(patient_id),
 FOREIGN KEY (doctor_id) REFERENCES Doctor(doctor_id)
);
Inserting Sample Data:
INSERT INTO Departmentss VALUES (1, 'Cardiology'), (2, 'Neurology'), (3, 'Orthopedics');
```

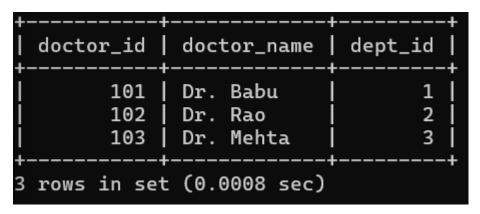
```
+-----+
| dept_id | dept_name |
+------+
| 1 | Cardiology |
| 2 | Neurology |
| 3 | Orthopedics |
+-----+
3 rows in set (0.0008 sec)
```

INSERT INTO Doctor VALUES

(101, 'Dr. Babu', 1),

(102, 'Dr. Rao', 2),

(103, 'Dr. Mehta', 3);



INSERT INTO Patientss VALUES

- (1, 'Anjali', 'Delhi'),
- (2, 'Ravi', 'Mumbai'),
- (3, 'Priya', 'Delhi'),
- (4, 'Karan', 'Chennai');

INSERT INTO Appointmentss VALUES

```
(1001, 1, 101, '2025-07-01', 'Chest Pain'),
```

(1002, 2, 102, '2025-07-02', 'Headache'),

(1003, 3, 101, '2025-07-03', 'Chest Pain'),

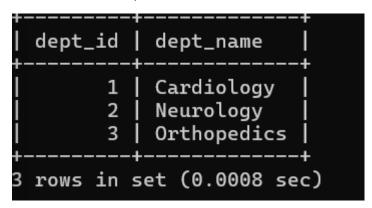
(1004, 4, 103, '2025-07-04', 'Fracture');

appointment_id	patient_id	doctor_id	appointment_date	 diagnosis
1001 1002 1003 1004	1 2 3 4	102 101	2025-07-01 2025-07-02 2025-07-03 2025-07-04	Chest Pain Headache Chest Pain Fracture
4 rows in set (0.0	9008 sec)			

Queries

1. Display all the departments in the hospital.

SELECT * FROM Departmentss;



2. Show all patients who are from 'Delhi'.

SELECT * FROM Patientss WHERE city = 'Delhi';

3. Display the details of appointments including patient name, doctor name, date, and diagnosis.

SELECT

```
a.appointment_id,p.patient_name,d.doctor_name,a.appointment_date,a.diagnosis
```

FROM

Appointmentss a

JOIN Patientss p ON a.patient_id = p.patient_id

JOIN Doctor d ON a.doctor_id = d.doctor_id;

t appointment_id	patient_name	doctor_name	appointment_date		
1003 1002	Anjali Priya Ravi Karan	Dr. Babu Dr. Babu Dr. Rao Dr. Mehta	2025-07-01 2025-07-03 2025-07-02 2025-07-04	Chest Pain Chest Pain Headache Fracture	

4. Find the number of appointments handled by each doctor.

SELECT

d.doctor_name,

COUNT(a.appointment_id) AS appointment_count

FROM

Doctor d

LEFT JOIN Appointmentss a ON d.doctor_id = a.doctor_id

GROUP BY d.doctor_name;

5. List patients who visited 'Dr. Babu'.

SELECT DISTINCT

p.patient_name

FROM

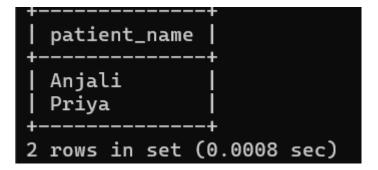
Appointmentss a

JOIN Patientss p ON a.patient_id = p.patient_id

JOIN Doctor d ON a.doctor_id = d.doctor_id

WHERE

d.doctor_name = 'Dr. Babu';



6. Update the diagnosis for appointment ID 1001 to 'Mild Chest Pain'.

UPDATE Appointmentss

SET diagnosis = 'Mild Chest Pain'

WHERE appointment_id = 1001;

appointment_id	patient_id	doctor_id	appointment_date	diagnosis
1001 1002 1003 1004	1 2 3 4	102 101	2025-07-01 2025-07-02 2025-07-03 2025-07-04	Mild Chest Pain Headache Chest Pain Fracture
4 rows in set (0.0	9008 sec)	 		++

7. Delete the appointment for patient ID 3.

DELETE FROM Appointmentss

WHERE patient_id = 3;

MySQL localhost:33060+ ssl pra SQL > select * from Appointmentss;				
appointment_id	patient_id	doctor_id	appointment_date	diagnosis
1001 1002 1004	1 2 4	102	2025-07-01 2025-07-02 2025-07-04	Mild Chest Pain Headache Fracture
3 rows in set (0.0009 sec)				