**// to create users table**

CREATE TABLE users (

id INT NOT NULL AUTO\_INCREMENT PRIMARY KEY,

username VARCHAR(50) NOT NULL UNIQUE,

password VARCHAR(255),

role ENUM('admin', 'doctor', 'patient') NOT NULL

);

**// to create patients table**

CREATE TABLE patients (

patient\_id INT NOT NULL AUTO\_INCREMENT PRIMARY KEY,

id INT NOT NULL UNIQUE,

name VARCHAR(50) NOT NULL,

phone VARCHAR(20) NOT NULL

);

**// to create doctors table**

CREATE TABLE doctors (

doctor\_id INT NOT NULL AUTO\_INCREMENT PRIMARY KEY,

id INT NOT NULL UNIQUE,

name VARCHAR(50) NOT NULL,

specialization VARCHAR(50)

);

**// to create appointments table**

CREATE TABLE appointments (

appointment\_id INT NOT NULL AUTO\_INCREMENT PRIMARY KEY,

patient\_id INT NOT NULL,

doctor\_id INT NOT NULL,

date DATE NOT NULL,

time TIME NOT NULL,

status ENUM('pending', 'scheduled', 'completed', 'cancelled', 'rejected') DEFAULT 'pending',

FOREIGN KEY (patient\_id) REFERENCES patients(patient\_id),

FOREIGN KEY (doctor\_id) REFERENCES doctors(doctor\_id)

);

**// to create medical\_records table**

CREATE TABLE medical\_records (

record\_id INT NOT NULL AUTO\_INCREMENT PRIMARY KEY,

patient\_id INT NOT NULL,

doctor\_id INT NOT NULL,

diagnosis TEXT,

treatment TEXT,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (patient\_id) REFERENCES patients(patient\_id),

FOREIGN KEY (doctor\_id) REFERENCES doctors(doctor\_id)

);

**// used queries**

SELECT a.appointment\_id, a.patient\_id, a.doctor\_id, a.date, a.time, a.status, +

p.name AS patient\_name, d.name AS doctor\_name, d.specialization +

FROM appointments a +

JOIN patients p ON a.patient\_id = p.patient\_id +

JOIN doctors d ON a.doctor\_id = d.doctor\_id +

WHERE a.doctor\_id = ? AND a.date >= CURDATE() +

ORDER BY a.date ASC, a.time ASC;

SELECT a.appointment\_id, a.patient\_id, a.doctor\_id, a.date, a.time, a.status, +

p.name AS patient\_name, p.phone AS patient\_phone +

FROM appointments a +

JOIN patients p ON a.patient\_id = p.patient\_id +

WHERE a.doctor\_id = ? AND a.status = 'pending' +

ORDER BY a.date ASC, a.time ASC;

SELECT a.appointment\_id, a.date, a.time, a.status, +

d.name AS doctor\_name, d.specialization +

FROM appointments a +

JOIN doctors d ON a.doctor\_id = d.doctor\_id +

WHERE a.patient\_id = ? +

ORDER BY a.date DESC, a.time DESC;

**// DoctorDao**

SELECT doctor\_id, id, name, specialization FROM doctors

INSERT INTO users (username, password, role) VALUES (?, ?, 'doctor');

INSERT INTO doctors (id, name, specialization) VALUES (?, ?, ?);

UPDATE doctors SET name = ?, specialization = ? WHERE doctor\_id = ?;

SELECT id FROM doctors WHERE doctor\_id = ?;

DELETE FROM appointments WHERE doctor\_id = ?;

DELETE FROM doctors WHERE doctor\_id = ?;

DELETE FROM users WHERE id = ?;

SELECT \* FROM doctors WHERE doctor\_id = ?;

**// medicalRecordDao**

SELECT mr.record\_id, mr.patient\_id, mr.doctor\_id, +

mr.diagnosis, mr.treatment, mr.created\_at, +

p.name AS patient\_name, d.name AS doctor\_name +

FROM medical\_records mr +

JOIN patients p ON mr.patient\_id = p.patient\_id +

JOIN doctors d ON mr.doctor\_id = d.doctor\_id +

ORDER BY mr.created\_at DESC;

INSERT INTO medical\_records (patient\_id, doctor\_id, diagnosis, treatment) +

VALUES (?, ?, ?, ?);

SELECT mr.record\_id, mr.patient\_id, mr.doctor\_id, mr.diagnosis, +

mr.treatment, mr.created\_at, p.name AS patient\_name, d.name AS doctor\_name +

FROM medical\_records mr +

JOIN patients p ON mr.patient\_id = p.patient\_id +

JOIN doctors d ON mr.doctor\_id = d.doctor\_id +

WHERE mr.record\_id = ?;

UPDATE medical\_records SET diagnosis = ?, treatment = ? WHERE record\_id = ?;

SELECT mr.record\_id, p.name as patient\_name, mr.diagnosis, mr.treatment, mr.created\_at +

FROM medical\_records mr +

JOIN patients p ON mr.patient\_id = p.patient\_id +

WHERE mr.doctor\_id = ? +

ORDER BY mr.created\_at DESC

SELECT mr.record\_id, mr.diagnosis, mr.treatment, mr.created\_at, +

d.name AS doctor\_name, d.specialization " +

FROM medical\_records mr +

JOIN doctors d ON mr.doctor\_id = d.doctor\_id +

WHERE mr.patient\_id = ? +

ORDER BY mr.created\_at DESC;

SELECT patient\_id, id, name, phone FROM patients

INSERT INTO users (username, password, role) VALUES (?, ?, 'patient');

INSERT INTO patients (id, name, phone) VALUES (?, ?, ?);

UPDATE patients SET name = ?, phone = ? WHERE patient\_id = ?;

SELECT id FROM patients WHERE patient\_id = ?;

DELETE FROM appointments WHERE patient\_id = ?;

DELETE FROM patients WHERE patient\_id = ?;

DELETE FROM users WHERE id = ?;

SELECT \* FROM patients WHERE patient\_id = ?;

SELECT \* FROM patients WHERE id = ?;

**// UserDao**

SELECT \* FROM users WHERE username= ? AND role = ?;

UPDATE users SET password = ? WHERE id = ?;

SELECT id, username, role FROM users ORDER BY username;

SELECT \* FROM users WHERE username = ? AND role = ?;

**// UserSettingsDao**

UPDATE users SET password = ? WHERE id = ?;

SELECT password FROM users WHERE id = ?;