CREATE DATABASE IF NOT EXISTS doctor\_appointment\_db;

USE doctor\_appointment\_db;

-- 1. USERS Table

CREATE TABLE users (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

email VARCHAR(100) NOT NULL UNIQUE,

password VARCHAR(255) NOT NULL,

role ENUM('PATIENT', 'DOCTOR', 'ADMIN') NOT NULL,

phone VARCHAR(20),

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

-- 2. DOCTORS Table

CREATE TABLE doctors (

id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT NOT NULL,

specialization VARCHAR(100) NOT NULL,

bio TEXT,

FOREIGN KEY (user\_id) REFERENCES users(id) ON DELETE CASCADE

);

-- 3. PATIENTS Table

CREATE TABLE patients (

id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT NOT NULL,

FOREIGN KEY (user\_id) REFERENCES users(id) ON DELETE CASCADE

);

-- 4. AVAILABILITY Table

CREATE TABLE availability (

id INT AUTO\_INCREMENT PRIMARY KEY,

doctor\_id INT NOT NULL,

available\_date DATE NOT NULL,

time\_slot VARCHAR(20) NOT NULL,

is\_booked BOOLEAN DEFAULT FALSE,

FOREIGN KEY (doctor\_id) REFERENCES doctors(id) ON DELETE CASCADE

);

-- 5. APPOINTMENTS Table

CREATE TABLE appointments (

id INT AUTO\_INCREMENT PRIMARY KEY,

doctor\_id INT NOT NULL,

patient\_id INT NOT NULL,

appointment\_date DATE NOT NULL,

time\_slot VARCHAR(20) NOT NULL,

status ENUM('PENDING', 'CONFIRMED', 'CANCELLED', 'COMPLETED') DEFAULT 'PENDING',

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (doctor\_id) REFERENCES doctors(id) ON DELETE CASCADE,

FOREIGN KEY (patient\_id) REFERENCES patients(id) ON DELETE CASCADE

);

-- 6. REVIEWS Table (Optional)

CREATE TABLE reviews (

id INT AUTO\_INCREMENT PRIMARY KEY,

doctor\_id INT NOT NULL,

patient\_id INT NOT NULL,

rating INT CHECK (rating BETWEEN 1 AND 5),

comment TEXT,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (doctor\_id) REFERENCES doctors(id) ON DELETE CASCADE,

FOREIGN KEY (patient\_id) REFERENCES patients(id) ON DELETE CASCADE

);