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CREATE DATABASE IF NOT EXISTS nursing_training;
USE nursing_training;

CREATE TABLE Hospitals (
    hospital_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(255) NOT NULL,
    address TEXT
);

CREATE TABLE Doctors (
    doctor_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(255) NOT NULL,
    is_senior BOOLEAN DEFAULT FALSE
);

CREATE TABLE Doctor_Hospital (
    doctor_id INT,
    hospital_id INT,
    PRIMARY KEY (doctor_id, hospital_id),
    FOREIGN KEY (doctor_id) REFERENCES Doctors(doctor_id),
    FOREIGN KEY (hospital_id) REFERENCES Hospitals(hospital_id)
);

CREATE TABLE Colleges (
    college_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(255) NOT NULL
);

CREATE TABLE Students (
    student_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(255) NOT NULL,
    college_id INT,
    FOREIGN KEY (college_id) REFERENCES Colleges(college_id)
);

CREATE TABLE TrainingProgram (
    program_id INT AUTO_INCREMENT PRIMARY KEY,
    start_date DATE,
    end_date DATE
);

CREATE TABLE Student_Program (
    student_id INT,
    program_id INT,
    passed_exam BOOLEAN DEFAULT FALSE,
    PRIMARY KEY (student_id, program_id),
    FOREIGN KEY (student_id) REFERENCES Students(student_id),
    FOREIGN KEY (program_id) REFERENCES TrainingProgram(program_id)
);

CREATE TABLE ClassroomSessions (
    session_id INT AUTO_INCREMENT PRIMARY KEY,
    program_id INT,

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    doctor_id INT,  
    topic VARCHAR(255),  
    date DATE,  
    is_guest BOOLEAN DEFAULT FALSE,  
    FOREIGN KEY (program_id) REFERENCES TrainingProgram(program_id),  
    FOREIGN KEY (doctor_id) REFERENCES Doctors(doctor_id)  
);
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CREATE TABLE Exams (  
    exam_id INT AUTO_INCREMENT PRIMARY KEY,  
    program_id INT,  
    date DATE NOT NULL,  
    FOREIGN KEY (program_id) REFERENCES TrainingProgram(program_id)  
);
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CREATE TABLE Internships (  
    internship_id INT AUTO_INCREMENT PRIMARY KEY,  
    student_id INT,  
    doctor_id INT,  
    hospital_id INT,  
    start_date DATE,  
    end_date DATE,  
    FOREIGN KEY (student_id) REFERENCES Students(student_id),  
    FOREIGN KEY (doctor_id) REFERENCES Doctors(doctor_id),  
    FOREIGN KEY (hospital_id) REFERENCES Hospitals(hospital_id)  
);
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CREATE TABLE Certificates (  
    certificate_id INT AUTO_INCREMENT PRIMARY KEY,  
    student_id INT UNIQUE,  
    certificate_code VARCHAR(255) UNIQUE NOT NULL,  
    issue_date DATE NOT NULL,  
    FOREIGN KEY (student_id) REFERENCES Students(student_id)  
);
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CREATE TABLE ValidationLogs (  
    log_id INT AUTO_INCREMENT PRIMARY KEY,  
    certificate_id INT,  
    checked_by VARCHAR(255),  
    checked_at DATETIME NOT NULL,  
    FOREIGN KEY (certificate_id) REFERENCES Certificates(certificate_id)  
);
```