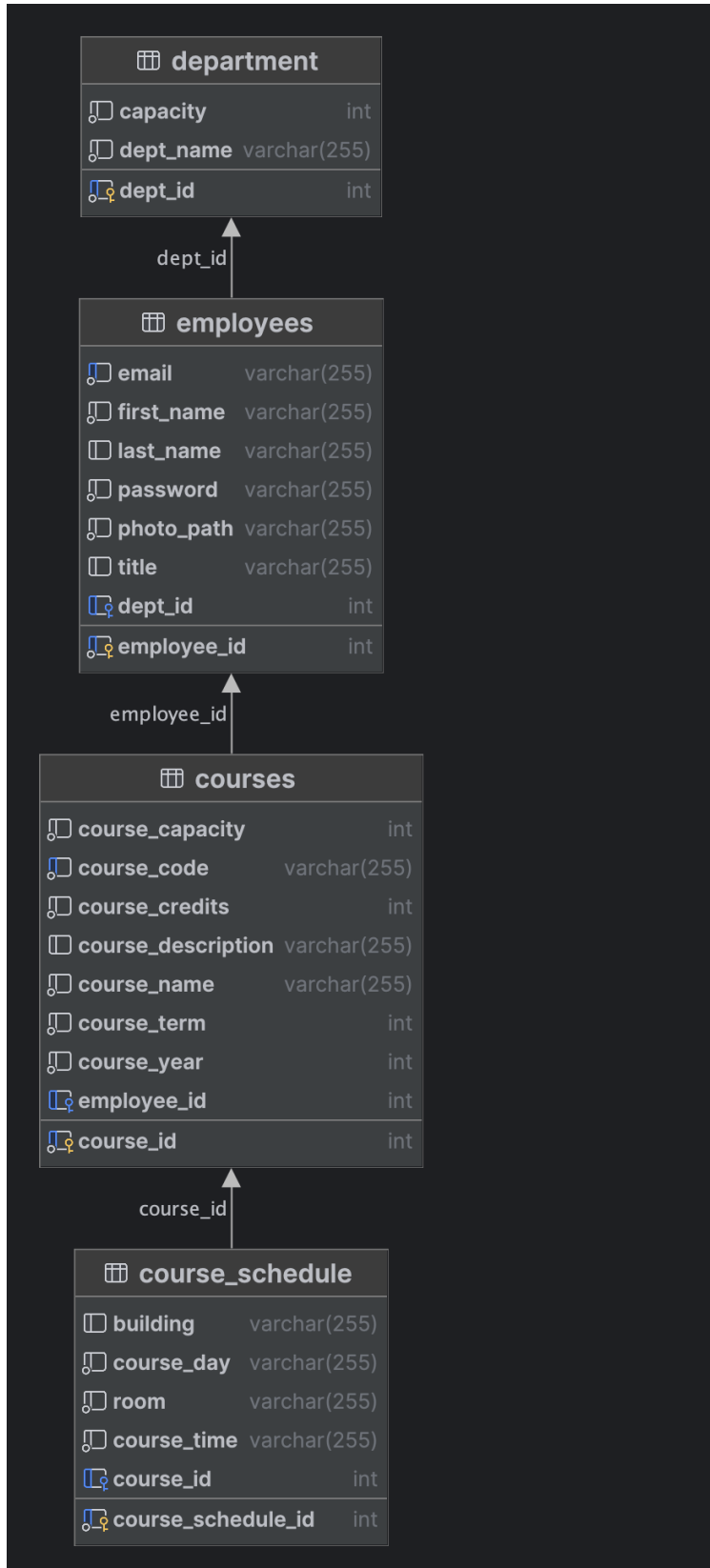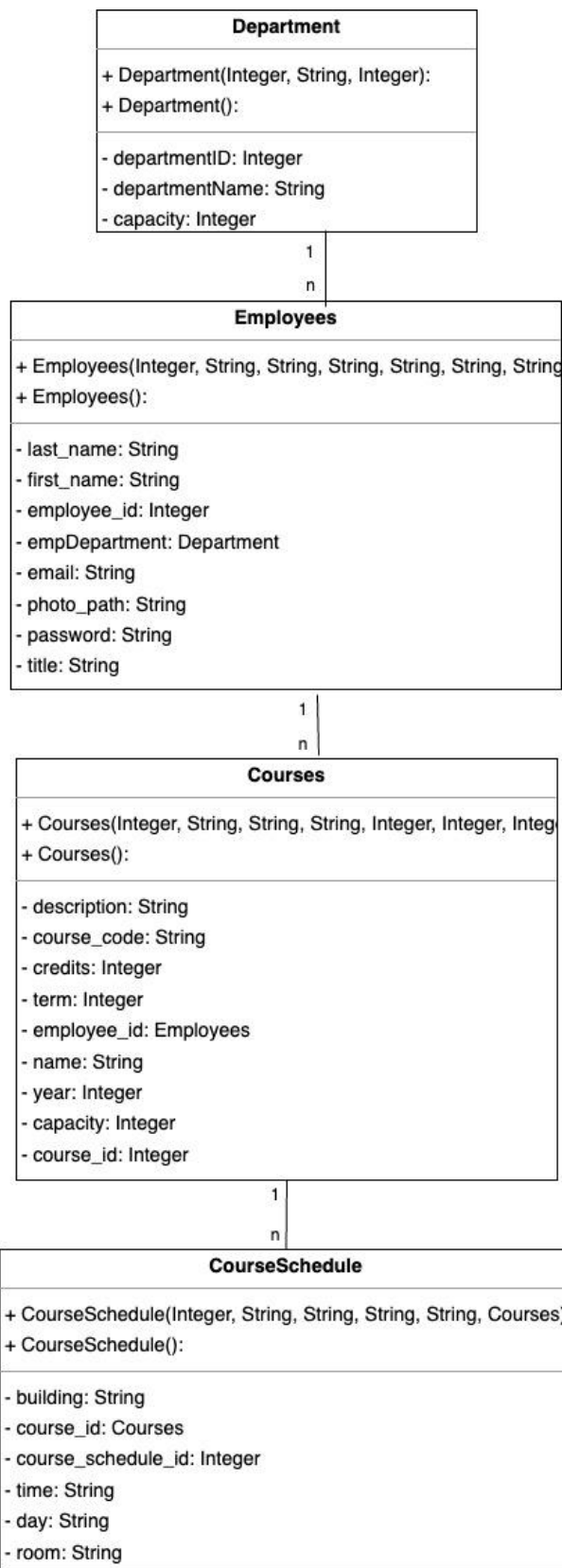# Faculty Registration

Ask for faculty details including Photograph (do not save as blob), and the courses which they would teach (Drop Down Selection). Also, while selecting courses do not allow selection of 2 courses if they have the same time slot. Assign a unique employee id.

ER-Diagram

Department

+ Department(Integer, String, Integer):
+ Department():

- departmentID: Integer
- departmentName: String
- capacity: Integer

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Employees

+ Employees(Integer, String, String, String, String, String, String
+ Employees():

- last_name: String
- first_name: String
- employee_id: Integer
- empDepartment: Department
- email: String
- photo_path: String
- password: String
- title: String

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Courses

+ Courses(Integer, String, String, String, Integer, Integer, Integer
+ Courses():

- description: String
- course_code: String
- credits: Integer
- term: Integer
- employee_id: Employees
- name: String
- year: Integer
- capacity: Integer
- course_id: Integer

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CourseSchedule

+ CourseSchedule(Integer, String, String, String, String, Courses):
+ CourseSchedule():

- building: String
- course_id: Courses
- course_schedule_id: Integer
- time: String
- day: String
- room: String

Create_db.sql

```
DROP DATABASE IF EXISTS collegedb;
CREATE DATABASE IF NOT EXISTS collegedb;
USE collegedb;
CREATE TABLE department (
    dept_id INT PRIMARY KEY AUTO_INCREMENT,
    dept_name VARCHAR(255) NOT NULL,
```

```sql
    capacity INT NOT NULL
);


CREATE TABLE employees (
    employee_id INT PRIMARY KEY AUTO_INCREMENT,
    email VARCHAR(255) UNIQUE NOT NULL,
    password VARCHAR(255) NOT NULL,
    first_name VARCHAR(255) NOT NULL,
    last_name VARCHAR(255),
    title VARCHAR(255),
    photo_path VARCHAR(255) NOT NULL,
    dept_id INT
);


CREATE TABLE courses (
    course_id INT PRIMARY KEY AUTO_INCREMENT,
    course_code VARCHAR(255) UNIQUE NOT NULL,
    course_name VARCHAR(255) NOT NULL,
    course_description VARCHAR(255),
    course_year INT NOT NULL,
    course_credits INT NOT NULL,
    course_term INT NOT NULL,
    course_capacity INT NOT NULL,
    employee_id INT
);

CREATE TABLE course_schedule (
    course_schedule_id INT PRIMARY KEY AUTO_INCREMENT,
    course_time VARCHAR(255) NOT NULL,
    course_day VARCHAR(255) NOT NULL,
    room VARCHAR(255) NOT NULL,
    building VARCHAR(255),
    course_id INT
);
```

Insert_db.sql

```sql
INSERT INTO employees (email, password, first_name, last_name, title, photo_path, dept_id)
VALUES
('employee1@example.com', 'password1', 'John', 'Doe', 'Mr', '/photos/1.jpg', 2),
('employee2@example.com', 'password2', 'Jane', 'Smith', 'Ms', '/photos/2.jpg', 2),
('employee3@example.com', 'password3', 'Bob', 'Johnson', 'Mr', '/photos/3.jpg', 2),
('employee4@example.com', 'password4', 'Alice', 'Williams', 'Ms', '/photos/4.jpg', 2),
('employee5@example.com', 'password5', 'Charlie', 'Brown', 'Mr', '/photos/5.jpg', 2);


INSERT INTO department (dept_name, Capacity) VALUES
('Admission', 50),
('Faculty', 100),
('Placement', 10);
```

```sql
INSERT INTO courses (course_code, course_name, course_description, course_year, course_credits,
course_term, course_capacity)
VALUES
    ('CS-511', 'Algorithms', NULL, 2022, 4, 1, 150),
    ('CS-512', 'Concrete Mathematics', NULL, 2022, 4, 1, 150),
    ('CS-513', 'Software Systems', NULL, 2022, 4, 1, 150),
    ('AI-511', 'Machine Learning', NULL, 2022, 4, 1, 150),
    ('AI-512', 'Mathematics for machine learning', NULL, 2022, 4, 1, 150);

INSERT INTO course_schedule (course_time, course_day, room, building) VALUES
('09:30:00', 'Monday', 'R103', 'Ramanujan'),
('11:15:00', 'Monday', 'R103', 'Ramanujan'),
('16:00:00', 'Monday', 'R105', 'Ramanujan'),
('09:30:00', 'Tuesday', 'R203', 'Ramanujan'),
('11:15:00', 'Tuesday', 'R203', 'Ramanujan'),
('09:30:00', 'Wednesday', 'R103', 'Ramanujan'),
('11:15:00', 'Wednesday', 'R103', 'Ramanujan'),
('14:00:00', 'Wednesday', 'R103', 'Ramanujan'),
('09:30:00', 'Thursday', 'R103', 'Ramanujan'),
('11:15:00', 'Thursday', 'R103', 'Ramanujan'),
('14:00:00', 'Thursday', 'R103', 'Ramanujan'),
('09:30:00', 'Friday', 'R103', 'Ramanujan'),
('09:30:00', 'Saturday', 'R103', 'Ramanujan'),
('09:30:00', 'Monday', 'R203', 'Ramanujan');
```

alter_db.sql

```sql
ALTER TABLE employees
ADD CONSTRAINT fk_employees_department
FOREIGN KEY (dept_id)
REFERENCES department(department_id);

ALTER TABLE courses
ADD CONSTRAINT fk_courses_employee
FOREIGN KEY (employee_id)
REFERENCES employees(employee_id);

ALTER TABLE course_schedule
ADD CONSTRAINT fk_courseschedule_courses
FOREIGN KEY (course_id)
REFERENCES courses(course_id);
```