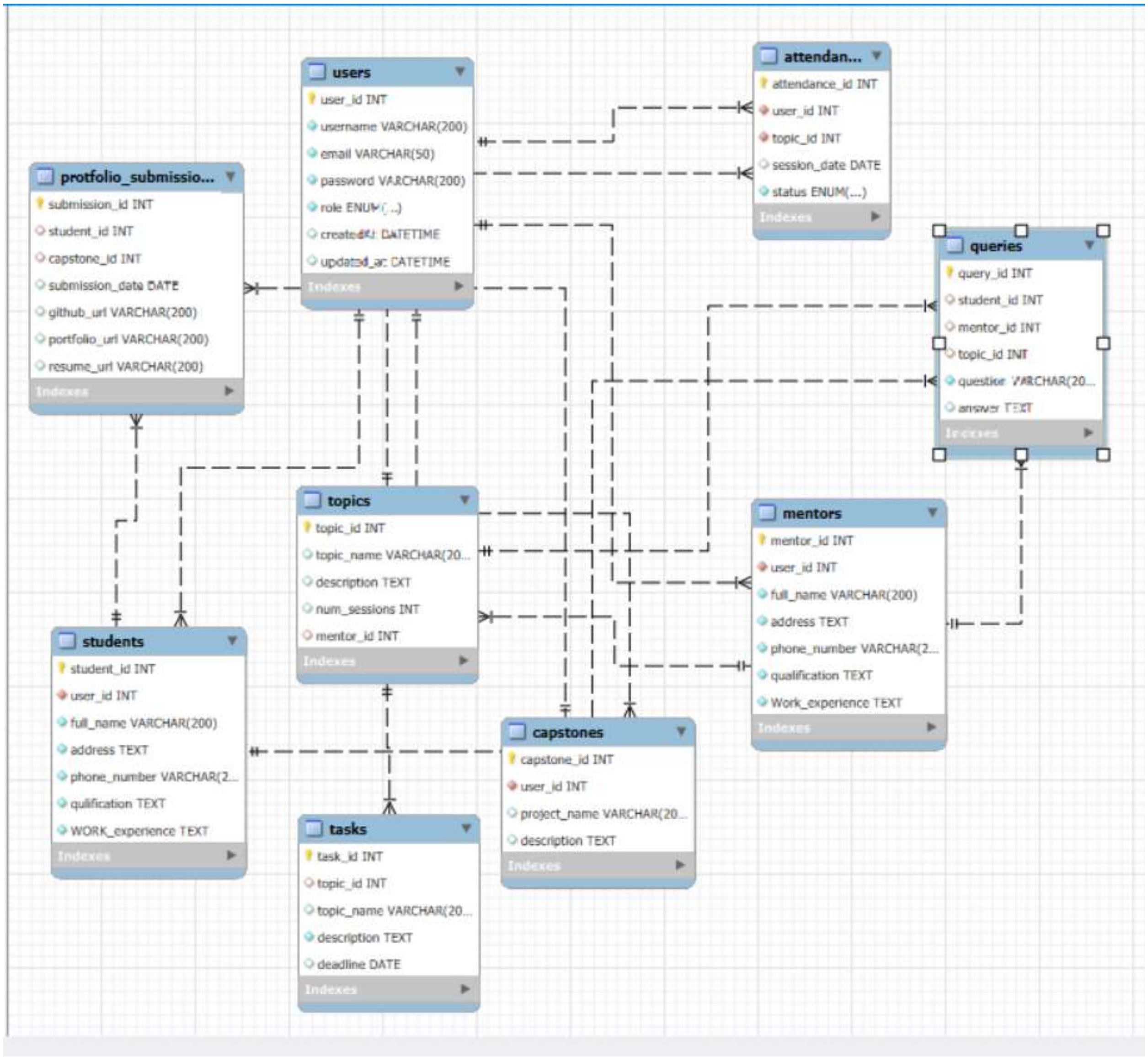
Design DB model for Guvi Zen class



The Guvi Zen class management system

Users: Records information about registered users, including their username, email, password, role, and creation/update timestamps.

- Students: Stores details of enrolled students such as their full name, address, phone number, qualification, and work experience.

- Mentors: Holds information about mentors guiding students, including their full name, address, phone number, qualification, and work experience.

- Topics: Defines subjects or areas of focus within the curriculum, with attributes like topic name, description, and the mentor responsible for each topic.

- Tasks: Specifies assignments or tasks assigned to students within a particular topic, including details such as task name, description, and deadline.

- Attendance: Tracks the attendance of users in topic sessions, recording session dates and attendance status.

- Capstones: Represents comprehensive projects undertaken by students, capturing project name, description, and student details.

CODE:

```
CREATE TABLE users(
user_id INT PRIMARY KEY,
username VARCHAR(200) NOT NULL,
email VARCHAR(50) NOT NULL UNIQUE,
password VARCHAR(200) NOT NULL,
role ENUM('student','mentor') NOT NULL,
createdAt DATETIME DEFAULT CURRENT_TIMESTAMP,
updated_at DATETIME DEFAULT NULL
)

CREATE TABLE students(
student_id INT PRIMARY KEY,
user_id INT NOT NULL,
full_name VARCHAR(200) NOT NULL,
address TEXT NOT NULL,
phone_number INT NOT NULL,
qulification TEXT NOT NULL,
WORK_experience TEXT NOT NULL,
FOREIGN KEY(user_id) REFERENCES users(user_id)
);
```

```
CREATE TABLE mentors(
 mentor_id INT PRIMARY KEY,
 user_id INT NOT NULL,
 full_name VARCHAR(200) NOT NULL,
 address TEXT NOT NULL,
 phone_number VARCHAR(20) NOT NULL,
 qualification TEXT NOT NULL,
 Work_experience TEXT NOT NULL,
 FOREIGN KEY (user_id) REFERENCES users (user_id)
 );
CREATE TABLE topics(
 topic_id INT PRIMARY KEY,
 topic_name VARCHAR(200),
 description TEXT,
 num_sessions INT,
 mentor_id INT,
 FOREIGN KEY (mentor_id) REFERENCES
mentors(mentor_id)
 );

 CREATE TABLE tasks (
 task_id INT PRIMARY KEY,
 topic_id INT,
 topic_name VARCHAR(200),
 description TEXT NOT NULL,
 deadline DATE,
 FOREIGN KEY (topic_id) REFERENCES topics(topic_id)
 );

 CREATE TABLE attendance (
  attendance_id INT PRIMARY KEY,
  user_id INT NOT NULL,
  topic_id INT NOT NULL,
  session_date DATE,
  status ENUM('present', 'absent')NOT NULL,
  FOREIGN KEY (user_id) REFERENCES users(user_id),
  FOREIGN KEY (topic_id) REFERENCES topics (topic_id)
  );

  CREATE TABLE capstones (
  capstone_id INT PRIMARY KEY,
  user_id INT NOT NULL,
  project_name VARCHAR(200),
  description TEXT,
  FOREIGN KEY (user_id) REFERENCES users (user_id)
  );
```

```
  CREATE TABLE queries(
  query_id INT PRIMARY KEY,
  student_id INT,
  mentor_id INT,
  topic_id INT,
  question VARCHAR(200) NOT NULL,
  answer TEXT,
  FOREIGN KEY (student_id) REFERENCES students (student_id),
  FOREIGN KEY (mentor_id) REFERENCES mentors (mentor_id),
  FOREIGN KEY (topic_id) REFERENCES topics (topic_id)
  );

 CREATE TABLE protfolio_submissions (
  submission_id INT PRIMARY KEY,
  student_id INT,
  capstone_id INT,
  submission_date DATE,
  github_url VARCHAR(200),
  portfolio_url VARCHAR(200),
  resume_url VARCHAR (200),
  FOREIGN KEY (student_id) REFERENCES students (student_id),
  FOREIGN KEY (capstone_id) REFERENCES capstones (capstone_id)
  );
```