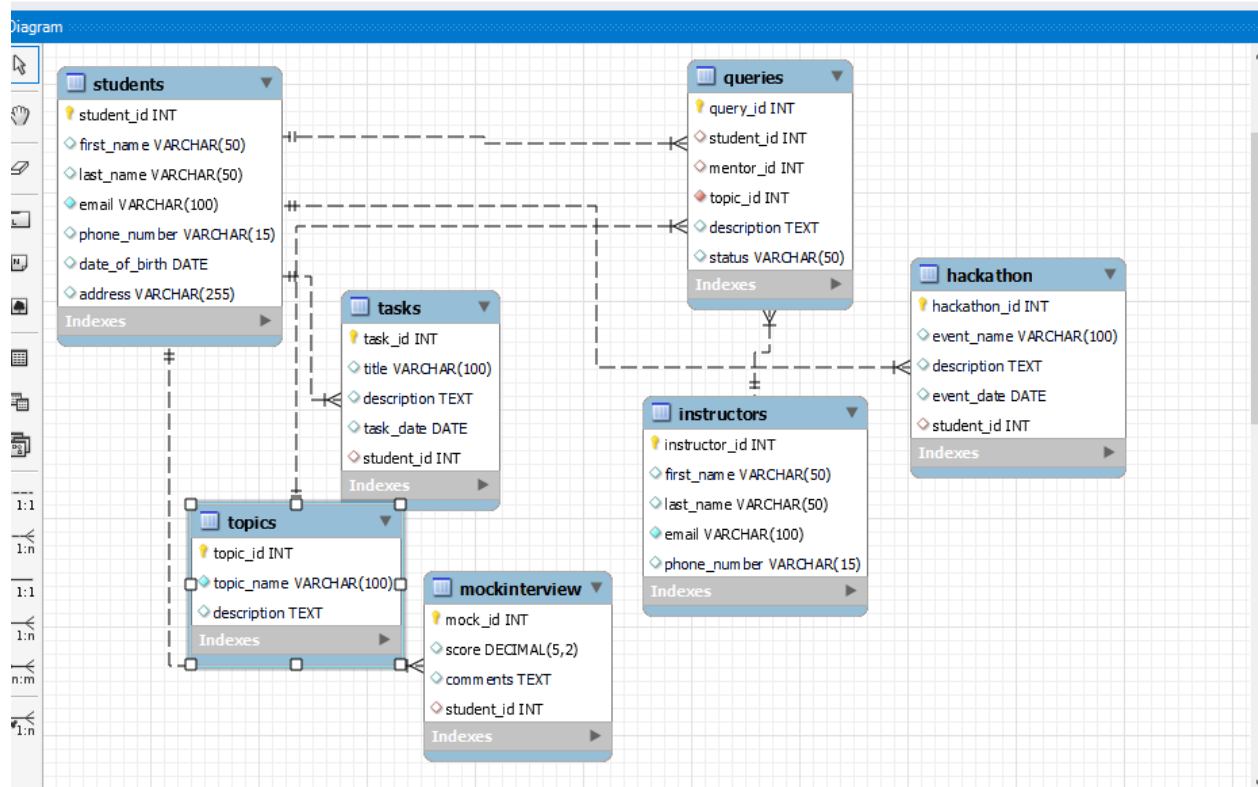


## EER DIAGRAM FOR A CLASS DATABASE



### QUERIES:

create database class;

use class;

```
CREATE TABLE ZenUsers (  
    user_id INT PRIMARY KEY AUTO_INCREMENT,  
    username VARCHAR(50) UNIQUE NOT NULL,  
    password VARCHAR(255) NOT NULL,  
    first_name VARCHAR(50),  
    last_name VARCHAR(50),  
    email VARCHAR(100) UNIQUE,  
    phone_number VARCHAR(15),  
    date_of_birth DATE,  
    address VARCHAR(255),  
    registration_date DATETIME DEFAULT CURRENT_TIMESTAMP  
);
```

```
CREATE TABLE Students (  
  student_id INT PRIMARY KEY ,  
  first_name VARCHAR(50),  
  last_name VARCHAR(50),  
  email VARCHAR(100) UNIQUE NOT NULL,  
  phone_number VARCHAR(15),  
  date_of_birth DATE,  
  address VARCHAR(255)  
);
```

```
CREATE TABLE Instructors (  
  instructor_id INT PRIMARY KEY AUTO_INCREMENT,  
  first_name VARCHAR(50),  
  last_name VARCHAR(50),  
  email VARCHAR(100) UNIQUE NOT NULL,  
  phone_number VARCHAR(15)  
);
```

```
CREATE TABLE Topics (  
  topic_id INT PRIMARY KEY AUTO_INCREMENT,  
  topic_name VARCHAR(100) UNIQUE NOT NULL,  
  description TEXT  
);
```

```
CREATE TABLE Tasks (  
  task_id INT PRIMARY KEY AUTO_INCREMENT,  
  title VARCHAR(100),  
  description TEXT,  
  task_date DATE  
);
```

```
CREATE TABLE MockInterview (  
  mock_id INT PRIMARY KEY AUTO_INCREMENT,  
  score DECIMAL(5, 2),  
  comments TEXT  
);
```

```
CREATE TABLE Queries (  
  query_id INT PRIMARY KEY AUTO_INCREMENT,  
  student_id INT,  
  mentor_id INT,  
  topic_id INT UNIQUE NOT NULL,  
  description TEXT,  
  status VARCHAR(50),
```

```
FOREIGN KEY (student_id) REFERENCES Students(student_id),  
FOREIGN KEY (mentor_id) REFERENCES Instructors(instructor_id),  
FOREIGN KEY (topic_id) REFERENCES Topics(topic_id)  
);
```

```
CREATE TABLE Capstone (  
  capstone_id INT PRIMARY KEY AUTO_INCREMENT,  
  user_id INT,  
  project_name VARCHAR(100),  
  description TEXT,  
  FOREIGN KEY (user_id) REFERENCES ZenUsers(user_id)  
);
```

```
CREATE TABLE Hackathon (  
  hackathon_id INT PRIMARY KEY AUTO_INCREMENT,  
  event_name VARCHAR(100),  
  description TEXT,  
  event_date DATE  
);
```

```
ALTER TABLE Tasks  
ADD COLUMN student_id INT,  
ADD FOREIGN KEY (student_id) REFERENCES Students(student_id);
```

```
ALTER TABLE MockInterview  
ADD COLUMN student_id INT,  
ADD FOREIGN KEY (student_id) REFERENCES Students(student_id);
```

```
ALTER TABLE Hackathon  
ADD COLUMN student_id INT,  
ADD FOREIGN KEY (student_id) REFERENCES Students(student_id);
```