

# Design DB model for Guvi Zen class

## Code:

### -- Database Creation:

```
CREATE DATABASE IF NOT EXISTS GuviDB;
```

### -- Tables Creation :

```
USE GuviDB;
```

```
CREATE TABLE users (  
  user_id INT PRIMARY KEY,  
  username VARCHAR(255) NOT NULL,  
  email VARCHAR(50) NOT NULL UNIQUE,  
  password VARCHAR(255) 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(255) 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 mentors (  
  mentor_id INT PRIMARY KEY,  
  user_id INT NOT NULL,  
  full_name VARCHAR(255) 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(255),  
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,  
task_name VARCHAR(255),  
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(255),  
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(255) 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 portfolio_submissions (  
submission_id INT PRIMARY KEY,  
student_id INT,  
capstone_id INT,  
submission_date DATE,  
github_url VARCHAR(255),  
portfolio_url VARCHAR(255),  
resume_url VARCHAR(255),  
FOREIGN KEY (student_id) REFERENCES students(student_id),  
FOREIGN KEY (capstone_id) REFERENCES capstones(capstone_id)  
);
```