Database Model for GUVI ZEN Class

This document shows the database architectural model for GUVI Zen Class. GUVI Zen class having the following tables and the below ER (Entity - Relationship) diagram shows the relationship between each tables in the database.

Database Name: GUVI-ZEN

TABLE NAME	DESCRIPTION
User	It contains user details such as user_id, first_name, last_name, email, phone no. and password
Student	It contains student details such as student_id, first_name, last_name, email, phone no, user_id and course_id
Mentor	It contains mentor details such as mentor_id, first_name, last_name, email, phone no, student_id and course_id
Course	It contains course details such as course_id, course_name, and mentor_id
Task	It contains task details such as task_id, task_name, task_deadline and student_id
Attendence	It contains attendance details such as session_date, attend_status, course_id and student_id

To design the above database with necessary tables the following SQL quries are used. By executing the below quries one by one we can create a database model for GUVI-Zen Class.

Create and Use database:

```
mysql> CREATE DATABASE Guvi-Zen;

mysql> USE Guvi-Zen;
```

Create Tables:

Using ‘CREATE TABLE’ query, we can create necessary tables inside the selected database. By executing the following sql commands the tables (user, student, mentor, course, task and attendance) are created in the selected database (Guvi-Zen).

Table Name: USER

mysql> CREATE TABLE User (user_id INT PRIMARY KEY, first_name VARCHAR(25), last_name VARCHAR(25), email VARCHAR(50), phone_number INT, password VARCHAR(50));

Table Name: COURSE

mysql> CREATE TABLE Course (course_id INT PRIMARY KEY, course_name VARCHAR(50), FOREIGN KEY (mentor_id) REFERENCES Mentor(mentor_id));

Table Name: STUDENT

mysql> CREATE TABLE Student (student_id INT PRIMARY KEY, first_name VARCHAR(25), last_name VARCHAR(25), email VARCHAR(50), phone_number VARCHAR(10), FOREIGN KEY (user_id) REFERENCES User(user_id), FOREIGN KEY (course_id) REFERENCES Course(course_id));

Table Name: MENTOR

mysql> CREATE TABLE Mentor (mentor_id INT PRIMARY KEY, first_name VARCHAR(25), last_name VARCHAR(25), email VARCHAR(50), phone_number VARCHAR(10), FOREIGN KEY (student_id) REFERENCES Student(student_id), FOREIGN KEY (course_id) REFERENCES Course(course_id));

Table Name: TASK

mysql> CREATE TABLE Task (task_id INT PRIMARY KEY, task_name VARCHAR(50), task_description TEXT, task_deadline DATE, FOREIGN KEY (student_id) REFERENCES Student (Student_id));

Table Name: ATTENDANCE

mysql> CREATE TABLE Attendance(stud_id INT, session_date DATE, attendance_status VARCHAR(15), FOREIGN KEY (stud_id) REFERENCES Student(student_id), FOREIGN KEY (course_id) REFERENCES Course (course_id));