**DB MODEL OF GUVI CLASS**

CREATE TABLE User (

UserID INT PRIMARY KEY,

Name VARCHAR(100),

Email VARCHAR(100) UNIQUE,

Password VARCHAR(255),

Role ENUM('Student', 'Instructor'),

RegistrationDate DATE

);

CREATE TABLE Course (

CourseID INT PRIMARY KEY,

CourseName VARCHAR(100),

Description TEXT,

StartDate DATE,

EndDate DATE,

InstructorID INT,

FOREIGN KEY (InstructorID) REFERENCES User(UserID)

);

CREATE TABLE Class (

ClassID INT PRIMARY KEY,

CourseID INT,

ClassDate DATE,

Topic VARCHAR(255),

FOREIGN KEY (CourseID) REFERENCES Course(CourseID)

);

CREATE TABLE Assignment (

AssignmentID INT PRIMARY KEY,

CourseID INT,

Title VARCHAR(255),

Description TEXT,

DueDate DATE,

FOREIGN KEY (CourseID) REFERENCES Course(CourseID)

);

CREATE TABLE Enrollment (

EnrollmentID INT PRIMARY KEY,

CourseID INT,

UserID INT,

EnrollmentDate DATE,

FOREIGN KEY (CourseID) REFERENCES Course(CourseID),

FOREIGN KEY (UserID) REFERENCES User(UserID)

);

CREATE TABLE Submission (

SubmissionID INT PRIMARY KEY,

AssignmentID INT,

UserID INT,

SubmissionDate DATE,

Grade VARCHAR(10),

Feedback TEXT,

FOREIGN KEY (AssignmentID) REFERENCES Assignment(AssignmentID),

FOREIGN KEY (UserID) REFERENCES User(UserID)

);

CREATE TABLE Discussion (

DiscussionID INT PRIMARY KEY,

CourseID INT,

UserID INT,

Message TEXT,

Timestamp DATETIME,

FOREIGN KEY (CourseID) REFERENCES Course(CourseID),

FOREIGN KEY (UserID) REFERENCES User(UserID)

);

CREATE TABLE Attendance (

AttendanceID INT PRIMARY KEY,

ClassID INT,

UserID INT,

Status ENUM('Present', 'Absent'),

Timestamp DATETIME,

FOREIGN KEY (ClassID) REFERENCES Class(ClassID),

FOREIGN KEY (UserID) REFERENCES User(UserID)

);