

CREATE DATABASE ZenClassPortal;

USE ZenClassPortal;

-- Users Table

CREATE TABLE Users (

user\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

email VARCHAR(100) UNIQUE NOT NULL,

role ENUM('candidate', 'mentor') NOT NULL

);

-- Classes Table

CREATE TABLE Classes (

class\_id INT AUTO\_INCREMENT PRIMARY KEY,

title VARCHAR(100) NOT NULL,

timing DATETIME NOT NULL,

isEnded BOOLEAN NOT NULL DEFAULT FALSE

);

-- Tasks Table

CREATE TABLE Tasks (

task\_id INT AUTO\_INCREMENT PRIMARY KEY,

title VARCHAR(100) NOT NULL,

tag VARCHAR(50) NOT NULL

);

-- Queries Table

CREATE TABLE Queries (

query\_id INT AUTO\_INCREMENT PRIMARY KEY,

title VARCHAR(100) NOT NULL,

description TEXT NOT NULL,

tag VARCHAR(50),

date DATE NOT NULL,

language VARCHAR(50),

time TIME NOT NULL

);

-- Events Table

CREATE TABLE Events (

event\_id INT AUTO\_INCREMENT PRIMARY KEY,

title VARCHAR(100) NOT NULL,

description TEXT,

event\_type ENUM('Hackathon', 'Placement Session') NOT NULL,

date DATE NOT NULL,

time TIME NOT NULL

);

-- Link Table: User\_Classes

CREATE TABLE User\_Classes (

user\_class\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT NOT NULL,

class\_id INT NOT NULL,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id),

FOREIGN KEY (class\_id) REFERENCES Classes(class\_id)

);

-- Link Table: User\_Tasks

CREATE TABLE User\_Tasks (

user\_task\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT NOT NULL,

task\_id INT NOT NULL,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id),

FOREIGN KEY (task\_id) REFERENCES Tasks(task\_id)

);

-- Link Table: Class\_Tasks

CREATE TABLE Class\_Tasks (

class\_task\_id INT AUTO\_INCREMENT PRIMARY KEY,

class\_id INT NOT NULL,

task\_id INT NOT NULL,

FOREIGN KEY (class\_id) REFERENCES Classes(class\_id),

FOREIGN KEY (task\_id) REFERENCES Tasks(task\_id)

);

-- Link Table: User\_Queries

CREATE TABLE User\_Queries (

user\_query\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT NOT NULL,

query\_id INT NOT NULL,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id),

FOREIGN KEY (query\_id) REFERENCES Queries(query\_id)

);

-- Link Table: Event\_Participants

CREATE TABLE Event\_Participants (

event\_participant\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT NOT NULL,

event\_id INT NOT NULL,

FOREIGN KEY (user\_id) REFERENCES Users(user\_id),

FOREIGN KEY (event\_id) REFERENCES Events(event\_id)

);

INSERTING VALUES:

-- Insert values into Users table

INSERT INTO Users (name, email, role) VALUES

('Aria', 'Aria@gmail.com', 'candidate'),

('Akhil', 'akhil@gmail.com', 'mentor');

-- Insert values into Classes table

INSERT INTO Classes (title, timing, isEnded) VALUES

('JavaScript Basics', '2024-08-16 10:00:00', FALSE),

('React Advanced', '2024-08-17 14:00:00', FALSE);

-- Insert values into Tasks table

INSERT INTO Tasks (title, tag) VALUES

('Complete Assignment 1', 'JavaScript'),

('Review React Project', 'React');

-- Insert values into Queries table

INSERT INTO Queries (title, description, tag, date, language, time) VALUES

('Issue with JavaScript Loop', 'I am facing an issue with the for loop in JavaScript.', 'JavaScript', '2024-08-15', 'JavaScript', '10:30:00'),

('React State Management', 'How do I manage state effectively in React?', 'React', '2024-08-15', 'JavaScript', '11:00:00');

-- Insert values into Events table

INSERT INTO Events (title, description, event\_type, date, time) VALUES

('Hackathon 2024', 'Annual coding competition.', 'Hackathon', '2024-09-01', '09:00:00'),

('Placement Preparation Session', 'Guidance for upcoming placement drives.', 'Placement Session', '2024-08-20', '15:00:00');

-- Insert values into User\_Classes table

INSERT INTO User\_Classes (user\_id, class\_id) VALUES

(1, 1), -- Aria in JavaScript Basics

(2, 2); -- Akhil in React Advanced

-- Insert values into User\_Tasks table

INSERT INTO User\_Tasks (user\_id, task\_id) VALUES

(1, 1), -- Aria assigned to Complete Assignment 1

(2, 2); -- Akhil assigned to Review React Project

-- Insert values into Class\_Tasks table

INSERT INTO Class\_Tasks (class\_id, task\_id) VALUES

(1, 1), -- JavaScript Basics class linked to Complete Assignment 1

(2, 2); -- React Advanced class linked to Review React Project

-- Insert values into User\_Queries table

INSERT INTO User\_Queries (user\_id, query\_id) VALUES

(1, 1), -- Aria asked about Issue with JavaScript Loop

(2, 2); -- Akhil asked about React State Management

-- Insert values into Event\_Participants table

INSERT INTO Event\_Participants (user\_id, event\_id) VALUES

(1, 1), -- Aria participating in Hackathon 2024

(2, 2); -- Akhil participating in Placement Preparation Session