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CREATE DATABASE Courseraa;
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Create table users(  
    id varchar(15) primary key,  
    firstName varchar(25) not null,  
    lastName varchar(25) not null,  
    email varchar(30) unique not null,  
    password varchar(25),  
    enrollmentDate DATE not null,  
    isActive boolean default true,  
    role varchar(15) check(role = 'Student' or role='Instructor')  
);
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CREATE TABLE Courses(  
    id varchar(15) primary key,  
    CourseName varchar(50) not null,  
    CourseDescription varchar(150) not null,  
    CourseCategory varchar(50) not null,  
    CourseDuration int not null,  
    CourseFee DECIMAL (10,2) not null,  
    CourseInstructorID varchar(15) not null,  
    CreatedAt DATETIME default (CURRENT_TIMESTAMP),  
    foreign key (CourseInstructorID) references users(id)  
);
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CREATE TABLE Enrollment(  
    id varchar(15) primary key ,  
    CourseID varchar(15) not null,  
    UserID varchar(15) not null,  
    EnrollmentDate DATETIME default (CURRENT_TIMESTAMP),  
    CompletionStatus varchar(15) check (CompletionStatus='Not Started' or CompletionStatus='In  
progress' or CompletionStatus='Completed'),  
    CompletionDate DATETIME default (CURRENT_TIMESTAMP),  
    foreign key (CourseID) references courses(id),  
    foreign key (UserID) references users(id)  
);
```

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CREATE TABLE Assignments(  
    id varchar(15) primary key,  
    AssignmentName varchar(50) not null,  
    AssignmentDescription varchar(150) not null,  
    AssignmentDeadline DATE not null,  
    CourseID varchar(15) not null,  
    foreign key (CourseID) references courses(id)  
);
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CREATE TABLE Submissions(
    id varchar(15) primary key,
    AssignmentID varchar(15) not null,
    UserID varchar(15) not null,
    SubmissionFile varchar(255) not null ,
    GradedScore DECIMAL(5,2) not null ,
    GradedAT DATETIME default (CURRENT_TIMESTAMP)
);

#Add row to users table
insert into users values ('12345','Jana','Wasfi','jana628@gmail.com','Jan#123','2023-02-25',true,'Student');
insert into users values ('12346','Jenan','Wasfi','jenanwasfi23@gmail.com','Jenan@123','2022-01-27',true,'Student');
insert into users values ('12347','Tojan','Wasfi','Tojan556@gmail.com','Tojan@@$','2021-12-13',true,'Student');
insert into users values ('12348','Sara','Alghamdi','SaraAlgh2@gmail.com','Sara$$82','2024-01-02',true,'Instructor');
insert into users values ('12349','Howida','Qumosani','HQ28@gmail.com','Hq12@@','2021-09-20',true,'Instructor');

#Add row to courses table
insert into courses (id, CourseName, CourseDescription, CourseCategory, CourseDuration, CourseFee, CourseInstructorID) values ('50','Introduction to Artificial Intellegence','Describe what AI is and explain the core concepts related to AI','Artificial Intellegence',10,50.53,'12348');
insert into courses (id, CourseName, CourseDescription, CourseCategory, CourseDuration, CourseFee, CourseInstructorID) values ('51','Machine Learning','A branch of artificial intelligence that enables computers to learn and improve from data without being explicitly programmed.','Artificial Intellegence',14,85.23,'12348');
insert into courses (id, CourseName, CourseDescription, CourseCategory, CourseDuration, CourseFee, CourseInstructorID) values ('52','IBM AI Developer','The fundamental concepts,key terms,building blocks,and applications of AI,encompassing generative AI','Software Development',20,103.23,'12348');
insert into courses (id, CourseName, CourseDescription, CourseCategory, CourseDuration, CourseFee, CourseInstructorID) values ('53','Google Data Analytics','Learn key analytical skills(Data cleaning,Analysis,&visualization ) and tools (spreadsheetsSQL,R programming,Tableau','Data Analytics',40,294.28,'12349');
insert into courses (id, CourseName, CourseDescription, CourseCategory, CourseDuration, CourseFee, CourseInstructorID) values ('54','Python for data science','Apply python programming logic variables>Data structutes,Branching,Loops,Functions,Objects&Classes','Data Analysis',30,698.32,'12349');

#Add row to enrollment table
insert into enrollment (id, CourseID, UserID, CompletionStatus) values ('5','50','12345','Not Started');
insert into enrollment (id, CourseID, UserID, CompletionStatus) values ('6','51','12346','In progress');
insert into enrollment (id, CourseID, UserID, CompletionStatus) values ('7','52','12347','In progress');
insert into enrollment (id, CourseID, UserID, CompletionStatus) values ('8','51','12345','In progress');

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insert into enrollment (id, CourseID, UserID, CompletionStatus) values ('9','50','12347','Completed');
#Add row to Assignment table
insert into assignments (id, AssignmentName, AssignmentDescription, AssignmentDeadline, CourseID)
values ('10','Introduction to Artificial Intelligence Assignment','students will design and implement a
simple AI-powered application that showcases their understanding of the course material.','2024-08-
30','50');
insert into assignments (id, AssignmentName, AssignmentDescription, AssignmentDeadline, CourseID)
values ('11','Machine Learning Assignment','students will work on a machine learning problem of their
choice.','2024-09-24','51');
insert into assignments (id, AssignmentName, AssignmentDescription, AssignmentDeadline, CourseID)
values ('12','IBM AI Developer Assignment','Design and implement an AI-powered application','2024-09-
15','52');
insert into assignments (id, AssignmentName, AssignmentDescription, AssignmentDeadline, CourseID)
values ('13','Google Data Analytics Assignment','Work on a real-world data analytics problem and apply
the skills and knowledge they have acquired throughout the course','2024-10-15','53');
insert into assignments (id, AssignmentName, AssignmentDescription, AssignmentDeadline, CourseID)
values ('14','Python for data science Assignment','The goal is to demonstrate their ability to gather,
clean, analyze, and visualize data','2024-12-30','54');
#Add row to Submission table
insert into submissions (id, AssignmentID, UserID, SubmissionFile, GradedScore) values
('1','10','12345','ArtificialAssignment.pdf',4.87);
insert into submissions (id, AssignmentID, UserID, SubmissionFile, GradedScore) values
('2','11','12345','MLearning.pdf',5);
insert into submissions (id, AssignmentID, UserID, SubmissionFile, GradedScore) values
('3','11','12346','MachineLearning.pdf',5);
insert into submissions (id, AssignmentID, UserID, SubmissionFile, GradedScore) values
('4','12','12347','GoogleDataAnalytics.pdf',4.5);
insert into submissions (id, AssignmentID, UserID, SubmissionFile, GradedScore) values
('5','10','12347','AI.pdf',4.93);
#DDL
alter table courses add column updatedAT DATETIME;
alter table users add column Address varchar(30);
alter table assignments drop column AssignmentName;
#update
update Submissions set SubmissionFile='ArtificialIntelligence.doc' where id='1';
update users set firstName='Tojan' where id = '12347';
update enrollment set CompletionStatus='Completed' where id ='7';
update courses set CourseCategory='Programming' where id='54';
update assignments set AssignmentDeadline ='2024-09-30' where id='10';
#Delete
delete from enrollment where id='6';
delete from users where id='12346';
delete from submissions where id='14';

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delete from assignments where id='14';  
delete from courses where id='54';
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