DatabaseSchema Documentation

Introduction

This document provides documentation for the database schema consisting of multiple tables used to manage information related to exams, questions, choices, key performance indicators (KPIs), job offers, topics, courses, students, instructors, and departments. Each table is designed to store specific data relevant to its domain. This schema is intended for educational institutions or organizations that need to manage exam-related information, student data, and related entities.

ERD

**A diagram of a network

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Mapping

**A screenshot of a computer screen

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A screenshot of a computer

Description automatically generated

IMPLEMENTATION

Creating a database for an examination system typically involves defining tables to store information about the Topic, Course, Instructor, Student, Department, Exam, Graduate, and Feedback. Once we defined the table schema, we populated the tables with data. We used the Bulk Insert command. This command allows for the efficient insertion of large amounts of data into tables from a data file. The data file can be CSV in our system.

A screen shot of a computer program

Description automatically generated

A computer screen with text and images

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A screen shot of a computer program

Description automatically generated

**Stored procedures**

CREATE VIEW RANDValue

AS

SELECT RAND() AS Value

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Create FUNCTION [dbo].[GenerateRandomPassword]()

RETURNS NVARCHAR(100)

AS

BEGIN

DECLARE @char CHAR = '';

DECLARE @charI INT = 0;

DECLARE @password NVARCHAR(100) = '';

DECLARE @len INT = 6;

WHILE @len > 0

BEGIN

SET @charI = ROUND( (SELECT Value FROM RANDValue) \*100, 0);

SET @char = CHAR(@charI);

IF @charI > 48 AND @charI < 122

BEGIN

SET @password = @password + @char;

SET @len = @len - 1;

END

END

RETURN @password;

END

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Create PROCEDURE [dbo].[InsertUser]

@UserEmail NVARCHAR(100)

AS

BEGIN

DECLARE @UserPassword NVARCHAR(100);

SET @UserPassword = dbo.GenerateRandomPassword();

-- Check if the user with the provided email already exists

IF NOT EXISTS (SELECT 1 FROM Users WHERE Email = @UserEmail)

BEGIN

-- Insert the user with the provided email and random password

INSERT INTO Users (Email, Password)

VALUES (@UserEmail, @UserPassword);

PRINT 'User inserted successfully.';

END

ELSE

BEGIN

PRINT 'User with email ' + @UserEmail + ' already exists.';

END

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectAllInstructors]

AS

BEGIN

SELECT \* FROM Instructors;

END;

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create PROCEDURE [dbo].[InsertInstructor]

@InstructorFirstName NVARCHAR(100),

@InstructorLastName NVARCHAR(100),

@InstructorAge INT,

@InstructorSalary INT,

@InstructorAddress NVARCHAR(255)

,@InstructorEmail NVARCHAR(255)

AS

BEGIN

INSERT INTO Instructors(FirstName, LastName, Age, Salary, Address, Email)

VALUES (@InstructorFirstName, @InstructorLastName, @InstructorAge, @InstructorSalary, @InstructorAddress, @InstructorEmail);

END;

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create PROCEDURE [dbo].[EditInstructorById]

@InstructorID INT,

@InstructorFirstName NVARCHAR(100),

@InstructorLastName NVARCHAR(100),

@InstructorAge INT,

@InstructorSalary DECIMAL(10, 2),

@InstructorAddress NVARCHAR(255)

AS

BEGIN

UPDATE Instructors

SET FirstName = @InstructorFirstName,

LastName = @InstructorLastName,

Age = @InstructorAge,

Salary = @InstructorSalary,

Address = @InstructorAddress

WHERE ID = @InstructorID;

END

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create PROCEDURE [dbo].[DeleteInstructorById]

@InstructorID INT

AS

BEGIN

-- Delete the instructor

DELETE FROM Instructors WHERE ID = @InstructorID;

END

CREATE PROCEDURE [dbo].[DeleteCourseById]

@CourseID INT

AS

BEGIN

-- Delete the course

DELETE FROM Courses WHERE ID = @CourseID;

END

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Create PROCEDURE [dbo].[InsertExamQuestion]

@ExamID INT,

@QuestionID INT

AS

BEGIN

INSERT INTO ExamQuestion (ExamsID, QuestionsId)

VALUES (@ExamID, @QuestionID)

END

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create PROCEDURE [dbo].[SelectAllStudents]

AS

BEGIN

SELECT \* FROM Students;

END;

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CREATE PROCEDURE SelectAllStudentsWithDepartments

AS

BEGIN

SELECT s.\*, d.Name

FROM Students s

JOIN Departments d ON s.DepartmentId = d.Id;

END

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alter PROCEDURE [dbo].[SelectStudentById]

@StudentId INT

AS

BEGIN

SELECT\* FROM Students

WHERE Id=@StudentId;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

alter PROCEDURE [dbo].[InsertStudent]

@StudentFirstName NVARCHAR(100),

@StudentLastName NVARCHAR(100),

@StudentAge INT,

@StudentGender INT,

@StudentAddress NVARCHAR(255),

@StudentFaculty NVARCHAR(100),

@StudentGraduationYear INT,

@StudentEmail NVARCHAR(255),

@DepartmentId INT

AS

BEGIN

INSERT INTO Students(FirstName, LastName, Age, Gender, Address,Faculty,GraduationYear, Email,DepartmentId)

VALUES (@StudentFirstName, @StudentLastName, @StudentAge, @StudentGender, @StudentAddress, @StudentFaculty,@StudentGraduationYear,@StudentEmail,@DepartmentId);

END;

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create PROCEDURE [dbo].[EditStudentById]

@StudentID INT,

@StudentFirstName NVARCHAR(100),

@StudentLastName NVARCHAR(100),

@StudentAge INT,

@StudentGender INT,

@StudentAddress NVARCHAR(255),

@StudentFaculty NVARCHAR(100),

@StudentGraduationYear INT

AS

BEGIN

UPDATE Students

SET FirstName = @StudentFirstName,

LastName = @StudentLastName,

Age = @StudentAge,

Gender = @StudentGender,

Address = @StudentGender,

Faculty=@StudentFaculty,

GraduationYear=@StudentGraduationYear

WHERE ID = @StudentID;

END

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create PROCEDURE [dbo].[DeleteStudentById]

@StudentID INT

AS

BEGIN

DELETE FROM Students WHERE ID = @StudentID;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectDepartmentById]

@DepartmentId INT

AS

BEGIN

SELECT \* FROM Departments WHERE Id = @DepartmentId;

END;

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CREATE PROCEDURE [dbo].[DeleteTopicById]

@TopicID INT

AS

BEGIN

-- Delete the course

DELETE FROM Topics WHERE ID = @TopicID;

END

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create PROCEDURE [dbo].[SelectAllCourses]

AS

BEGIN

SELECT \* FROM Courses;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectCourseById]

@CourseId INT

AS

BEGIN

SELECT \* FROM Courses WHERE Id = @CourseId;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[InsertCourse]

@CourseName NVARCHAR(100),

@CourseGrade INT

AS

BEGIN

INSERT INTO Courses(Name, Grade)

VALUES (@CourseName, @CourseGrade);

END;

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create PROCEDURE [dbo].[EditCourseById]

@CourseID INT,

@CourseName NVARCHAR(100),

@CourseGrade INT

AS

BEGIN

UPDATE Courses

SET Name = @CourseName,

Grade = @CourseGrade

WHERE ID = @CourseID;

END

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CREATE PROCEDURE [dbo].[SelectCourseById]

@CourseId INT

AS

BEGIN

SELECT \* FROM Courses WHERE Id = @CourseId;

END;

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CREATE PROCEDURE [dbo].[DeleteCourseById]

@CourseID INT

AS

BEGIN

-- Delete the course

DELETE FROM Courses WHERE ID = @CourseID;

END

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create PROCEDURE [dbo].[SelectAllTopics]

AS

BEGIN

SELECT \* FROM Topics;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectAllCourseTopics]

@CourseId INT

AS

BEGIN

SELECT \* FROM Topics WHERE CourseId = @CourseId;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[InsertTopic]

@TopicName NVARCHAR(100),

@CourseId INT

AS

BEGIN

INSERT INTO Topics(Name, CourseId)

VALUES (@TopicName, @CourseId);

END;

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create PROCEDURE [dbo].[EditTopicById]

@TopicID INT,

@TopicName NVARCHAR(100),

@CourseId INT

AS

BEGIN

UPDATE Topics

SET Name = @TopicName,

CourseId = @CourseId

WHERE ID = @TopicID;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[DeleteTopicById]

@TopicID INT

AS

BEGIN

-- Delete the course

DELETE FROM Topics WHERE ID = @TopicID;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*create PROCEDURE [dbo].[SelectAllDepartments]

AS

BEGIN

SELECT \* FROM Departments;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[InsertDepartment]

@DepartmentName NVARCHAR(100),

@DepartmentBranch NVARCHAR(100),

@DepartmentSP INT

AS

BEGIN

INSERT INTO Departments(Name, Branch,SP)

VALUES (@DepartmentName, @DepartmentBranch,@DepartmentSP);

END;

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create PROCEDURE [dbo].[EditDepartmentById]

@DepartmentId INT ,

@DepartmentName NVARCHAR(100),

@DepartmentBranch NVARCHAR(100)

AS

BEGIN

UPDATE Departments

SET Name = @DepartmentName,

Branch = @DepartmentBranch

WHERE ID = @DepartmentId;

END

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create PROCEDURE [dbo].[DeleteDepartmentById]

@DepartmentId INT

AS

BEGIN

DECLARE @StudentCount INT;

SELECT @StudentCount = COUNT(\*)

FROM Students

WHERE DepartmentId = @DepartmentId;

IF @StudentCount = 0

BEGIN

DELETE FROM CourseDepartment WHERE DepartmentsId=@DepartmentId;

DELETE FROM Departments WHERE Id = @DepartmentId;

END

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

use ExaminationDB

go

create proc GetAllChoices

as

select\* from Choices

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

go

create proc GetAllChoicesInQuestion @QId int

as

select\* from Choices where Id=@QId

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go

create proc AddChoice @text nvarchar(450) , @Qid int

as

insert into Choices values(@text, @Qid)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create proc [dbo].[DeleteChoice] @Qid int

as

delete from Choices where Id=@Qid

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

go

create proc UpdateChoice @textOld nvarchar(450), @textNew nvarchar(450) , @Qid int

as

update Choices

set Text = @textNew

where Id = @Qid and Text = @textOld

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create proc SelectAllCourseInstructor

as

begin

select \*

from CourseInstructor;

end;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create proc SelectCourseInstructorById

@CourseId int,@InstructorId int

as

begin

select \*

from CourseInstructor

where CoursesId=@CourseId and InstructorsID=@InstructorId

end;

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create proc InsertCourseInstructor @Cid int,@Iid int

as

begin

insert into CourseInstructor (CoursesId,InstructorsID)

values (@Cid,@Iid)

end;

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create proc EditCourseInstructor

@OldCourseId int,

@OldInstructorId int,

@NewCourseId int,

@NewInstructorId int

as

begin

update CourseInstructor

set CoursesId=@NewCourseId,

InstructorsID=@NewInstructorId

where CoursesId=@OldCourseId and InstructorsID=@OldInstructorId

end

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create proc DeleteCourseInstructor

@CourseId int,@InstructorId int

as

begin

delete from CourseInstructor

where CoursesId=@CourseId and InstructorsID=@InstructorId

end

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create proc SelectAllStudentCourses

as

begin

select \*

from StudentCourses

end;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create proc SelectStudentCoursesById

@CourseId int,@StudentId int

as

begin

select \*

from StudentCourses

where CourseId=@CourseId and StudentId=@StudentId

end;

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create proc InsertStudentCourses @CourseId int,@StudentId int,@Grade int

as

begin

insert into StudentCourses (CourseId,StudentId,Grade)

values (@CourseId,@StudentId,@Grade)

end;

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create proc EditStudentCourses

@OldCourseId int,

@OldStudentId int,

@NewCourseId int,

@NewStudentId int,

@Grade int

as

begin

update StudentCourses

set CourseId=@NewCourseId,

StudentId=@NewStudentId,

Grade=@Grade

where CourseId=@OldCourseId and StudentId=@OldStudentId

end

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create proc DeleteStudentCourses

@CourseId int,@StudentId int

as

begin

delete from StudentCourses

where CourseId=@CourseId and StudentId=@StudentId

end

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create proc SelectAllCourseDepartment

as

begin

select \*

from CourseDepartment;

end;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create proc SelectCourseDepartmentById

@CoursesId int,@DepartmentsId int

as

begin

select \*

from CourseDepartment

where CoursesId=@CoursesId and DepartmentsId=@DepartmentsId

end;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create proc InsertCourseDepartment @CourseId int,@DepartmentId int

as

begin

insert into CourseDepartment (CoursesId,DepartmentsId)

values (@CourseId,@DepartmentId)

end;

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create proc EditCourseDepartment

@OldCourseId int,

@OldDepartmentId int,

@NewCourseId int,

@NewDepartmentId int

as

begin

update CourseDepartment

set CoursesId=@NewCourseId,

DepartmentsId=@NewDepartmentId

where CoursesId=@OldCourseId and DepartmentsId=@OldDepartmentId

end

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create proc DeleteCourseDepartment

@CourseId int,@DepartmentId int

as

begin

delete from CourseDepartment

where CoursesId=@CourseId and DepartmentsId=@DepartmentId

end

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectAllExamQuestions]

AS

BEGIN

SELECT \* FROM ExamQuestion;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectExamQuestionById]

@ExamId INT,

@QuestionId INT

AS

BEGIN

SELECT \* FROM ExamQuestion WHERE ExamsID = @ExamId AND @QuestionId = QuestionsId;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[EditExamQuestionById]

@OldExamId INT,

@OldQuestionId INT,

@NewExamId INT,

@NewQuestionId INT

AS

BEGIN

UPDATE ExamQuestion

SET ExamsID = @NewExamId,

QuestionsId = @NewQuestionId

WHERE ExamsID = @OldExamId AND QuestionsId = @OldQuestionId;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[DeleteExamQuestionById]

@ExamId INT,

@QuestionId INT

AS

BEGIN

DELETE FROM ExamQuestion WHERE ExamsID = @ExamId AND @QuestionId = QuestionsId;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectAllStudentExamQuestions]

AS

BEGIN

SELECT \* FROM StudentExamQuestions;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectStudentExamQuestionById]

@StudentId INT,

@ExamId INT,

@QuestionId INT

AS

BEGIN

SELECT \* FROM StudentExamQuestions WHERE StudentId = @StudentId AND ExamID = @ExamId AND QuestionId = @QuestionId;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[InsertStudentExamQuestion]

@StudentId INT,

@ExamId INT,

@QuestionId INT,

@Answer NVARCHAR(100)

AS

BEGIN

INSERT INTO StudentExamQuestions (StudentId, ExamId, QuestionId, Answer)

VALUES (@StudentId, @ExamId, @QuestionId, @Answer);

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[EditStudentExamQuestionById]

@OldStudentId INT,

@OldExamId INT,

@OldQuestionId INT,

@NewStudentId INT,

@NewExamId INT,

@NewQuestionId INT,

@Answer NVARCHAR(100)

AS

BEGIN

UPDATE StudentExamQuestions

SET StudentId = @NewStudentId,

ExamID = @NewExamId,

QuestionId = @NewQuestionId

WHERE StudentId = @OldStudentId AND ExamID = @OldExamId AND QuestionId = @OldQuestionId;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[DeleteStudentExamQuestionById]

@StudentId INT,

@ExamId INT,

@QuestionId INT

AS

BEGIN

DELETE FROM StudentExamQuestions WHERE StudentId = @StudentId AND ExamID = @ExamId AND QuestionId = @QuestionId;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectAllRoleUsers]

AS

BEGIN

SELECT \* FROM RoleUser;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectRoleUserById]

@RolesId INT,

@UsersEmail NVARCHAR(100)

AS

BEGIN

SELECT \* FROM RoleUser WHERE RolesId = @RolesId AND UsersEmail = @UsersEmail;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[InsertRoleUser]

@RolesId INT,

@UsersEmail NVARCHAR(100)

AS

BEGIN

INSERT INTO RoleUser(RolesId, UsersEmail)

VALUES (@RolesId, @UsersEmail);

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*create PROCEDURE [dbo].[EditRoleUserById]

@OldRolesId INT,

@OldUsersEmail NVARCHAR(100),

@NewRolesId INT,

@NewUsersEmail NVARCHAR(100)

AS

BEGIN

UPDATE RoleUser

SET RolesId = @NewRolesId,

UsersEmail = @NewUsersEmail

WHERE RolesId = @OldRolesId AND UsersEmail = @OldUsersEmail;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[DeleteRoleUserById]

@RolesId INT,

@UsersEmail NVARCHAR(100)

AS

BEGIN

DELETE FROM RoleUser WHERE RolesId = @RolesId AND UsersEmail = @UsersEmail;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectAllRoles]

AS

BEGIN

SELECT \* FROM Roles;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectRoleById]

@RoleId int

AS

BEGIN

SELECT \* FROM Roles

where Id=@RoleId

END;

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create PROCEDURE [dbo].[InsertRole]

@RoleId INT,

@Description int

AS

BEGIN

INSERT INTO Roles(Id, Description)

VALUES (@RoleId, @Description);

END;

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create proc [dbo].[EditRole]

@RoleId INT,

@Description int

AS

BEGIN

update Roles

set

Description=@Description

where Id=@RoleId

END;

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alter proc [dbo].[DeleteRole]

@RoleId INT

AS

BEGIN

delete from RoleUser where RolesId=@RoleId;

delete from Roles where Id=@RoleId;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[SelectAllUsers]

AS

BEGIN

SELECT \* FROM Users;

END;

create PROCEDURE [dbo].[SelectUserById]

@UserEmail NVARCHAR(100)

AS

BEGIN

SELECT \* FROM Users WHERE Email = @UserEmail;

END;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[EditUserById]

@OldUserEmail NVARCHAR(100),

@NewUserEmail NVARCHAR(100),

@NewPassword NVARCHAR(100)

AS

BEGIN

UPDATE Users

SET Email = @NewUserEmail,

Password = @NewPassword

WHERE Email = @OldUserEmail;

END

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create PROCEDURE [dbo].[DeleteUserById]

@UserEmail NVARCHAR(100)

AS

BEGIN

DECLARE @StudentCount int,@AdminCount int,@Instructor int

SELECT @StudentCount = COUNT(\*)

FROM Students

WHERE Email = @UserEmail;

SELECT @AdminCount = COUNT(\*)

FROM Admins

WHERE Email = @UserEmail;

SELECT @Instructor = COUNT(\*)

FROM Instructors

WHERE Email = @UserEmail;

IF @StudentCount = 0 and @AdminCount=0 and @Instructor=0

BEGIN

DELETE FROM RoleUser WHERE UsersEmail=@UserEmail

DELETE FROM Users WHERE Email = @UserEmail;

END

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[DeleteQuestionById]

@QuestionID INT

AS

BEGIN

EXEC DeleteChoice @QuestionID;

DELETE FROM StudentExamQuestions WHERE QuestionId = @QuestionID;

DELETE FROM ExamQuestion WHERE QuestionsId = @QuestionID;

DELETE FROM Questions WHERE Id = @QuestionID;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[DeleteExamById]

@ExamID INT

AS

BEGIN

DELETE FROM StudentExamQuestions WHERE ExamId = @ExamID;

DELETE FROM ExamQuestion WHERE ExamsID = @ExamID;

DELETE FROM Exams WHERE Id = @ExamID;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create PROCEDURE [dbo].[DeleteCourseById]

@CourseID INT

AS

BEGIN

DELETE FROM CourseInstructor WHERE CoursesId = @CourseID;

DELETE FROM StudentCourses WHERE CourseId = @CourseID;

DELETE FROM CourseDepartment WHERE CoursesId = @CourseID;

DELETE FROM Questions WHERE CourseId = @CourseID;

DELETE FROM Exams WHERE CourseID = @CourseID;

DELETE FROM Topics WHERE CourseId = @CourseID;

DELETE FROM Courses WHERE Id = @CourseID;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*alter PROCEDURE [dbo].[DeleteInstructorById]

@InstructorID INT

AS

BEGIN

DECLARE @SupervisorCount INT;

SELECT @SupervisorCount = COUNT(\*)

FROM Departments

WHERE SP = @InstructorID;

IF @SupervisorCount = 0

BEGIN

DELETE FROM CourseInstructor WHERE InstructorsID = @InstructorID;

DELETE FROM Instructors WHERE Id = @InstructorID;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

alter PROCEDURE [dbo].[DeleteStudentById]

@StudentID INT

AS

BEGIN

DELETE FROM StudentExamQuestions WHERE StudentId = @StudentID;

DELETE FROM StudentCourses WHERE StudentId = @StudentID;

DELETE FROM Students WHERE Id = @StudentID;

END

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create proc [dbo].[GetChoicesById]

@ChoiceId int

as

select\* from Choices

where Id=@ChoiceId

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create PROCEDURE [dbo].[EditExamById]

@ExamID int,

@EDuration int,

--@EDate dateTime,

@EQCount int,

@ETotalMarks int

AS

BEGIN

UPDATE Exams

SET Duration = @EDuration,

--Date = @EDate,

QCount=@EQCount,

TotalMarks=@ETotalMarks

WHERE ID = @ExamID;

END

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create PROCEDURE [dbo].[EditQuestionsById]

@QuestionID int,

@QuestionType int,

@QuestionTitle nvarchar(max),

@QuestionCorrectAnswer nvarchar(max)

AS

BEGIN

UPDATE Questions

SET Type=@QuestionType,

Title=@QuestionTitle,

CorrectAnswer=@QuestionCorrectAnswer

WHERE Id = @QuestionID;

END

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create PROCEDURE [dbo].[DeleteQuestionById]

@QuestionID INT

AS

BEGIN

DELETE FROM Choices WHERE Id = @QuestionID;

DELETE FROM StudentExamQuestions WHERE QuestionId = @QuestionID;

DELETE FROM ExamQuestion WHERE QuestionsId = @QuestionID;

DELETE FROM Questions WHERE Id = @QuestionID;

END

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

alter PROCEDURE [dbo].[InsertRole]

@Description int

AS

BEGIN

INSERT INTO Roles(Description)

VALUES (@Description);

END;

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alter PROCEDURE [dbo].[EditStudentById]

@StudentID INT,

@StudentFirstName NVARCHAR(100),

@StudentLastName NVARCHAR(100),

@StudentAge INT,

@StudentGender INT,

@StudentAddress NVARCHAR(255),

@StudentFaculty NVARCHAR(100),

@StudentGraduationYear INT,

@StudentDepartmentID INT

AS

BEGIN

UPDATE Students

SET FirstName = @StudentFirstName,

LastName = @StudentLastName,

Age = @StudentAge,

Gender = @StudentGender,

Address = @StudentAddress,

Faculty=@StudentFaculty,

GraduationYear=@StudentGraduationYear,

DepartmentId = @StudentDepartmentID

WHERE ID = @StudentID;

END

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CREATE proc [dbo].[InsertStudentCoursesByDepartmentId]

@StudentID int,

@DepartmentId int

as

begin

INSERT INTO studentcourses (courseid, studentid)

SELECT c.ID AS CourseID, @StudentID AS StudentID

FROM courses AS c

JOIN CourseDepartment AS dc ON c.ID = dc.CoursesId

WHERE dc.DepartmentsId = @DepartmentID;

end**;**