CSE 581

**Lab 11: Stored Procedures**

**Purpose:**

Create a stored procedure **in database CSE581labs**. Execute it.

**Deliverables:**

Multiple screenshots, as described through the lab.

Scripts that you used to carry out the actions.

**Steps:**

1. Create a stored procedure. Input for the stored procedure will be Course Id and Student Id.

The stored procedure will check if the student is enrolled in the class yet.

use CSE581labs

CREATE PROCEDURE EnrollStudentInCourse1

@CourseId INT,

@StudentId VARCHAR(20)

AS

BEGIN

DECLARE @StudentCount INT, @FacultyId VARCHAR(20);

-- Check if the student is already enrolled

SELECT @StudentCount = COUNT(\*)

FROM CourseEnrollment

WHERE StudentId = @StudentId AND CourseId = @CourseId;

IF @StudentCount > 0

BEGIN

PRINT 'The student is already enrolled.';

END

ELSE

BEGIN

-- Check if the course has a faculty assigned

SELECT @FacultyId = Faculty

FROM Courses

WHERE CourseId = @CourseId;

IF @FacultyId IS NULL

BEGIN

PRINT 'Cannot enroll until faculty is selected.';

END

ELSE

BEGIN

-- Enroll the student

INSERT INTO CourseEnrollment(StudentId, CourseId)

VALUES (@StudentId, @CourseId);

PRINT 'Student enrolled.';

END

END

END;

A screenshot of a computer

Description automatically generated

1. If the student has already been enrolled, display a message that says “The student is already enrolled”.

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1. If the student has not been enrolled yet, and the course doesn’t have a faculty yet, display a message that says “Cannot enroll until faculty is selected”.

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1. If the student has not been enrolled yet, and the course does have a faculty assigned, then enroll the student in the course and display a message that says “Student enrolled”.

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Provide a **screenshot** of script execution that creates the stored procedure.

1. Select from the Enrollment table, to see data prior to execution. Provide a **screenshot**.

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1. Run the stored procedure to prove that all 3 cases work. For each case, provide a **screenshot** of script execution and **screenshots** of Enrollment and Courses table after execution.

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