

Assignment 1: GradeBook ERR Diagram

CST438: Software Engineering

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Stories:

As an admin, I can change the grades of submitted classes

As a student, I can select a course I am enrolled in, and then view grades for all assignments in the course.

As an instructor, I can view assignments for my courses that need grading

As a student I can reply to comments that a teacher added to an assignment

As a student, I can use a what if option to check my grade based on estimated assignment grade

As an instructor I can add and remove assignments

As an instructor I can add comments to an assignment to provide feedback to the student

As a student I can view the average grade based on other students grade

As an instructor, I can enter and update scores for an assignment for my course

Summary:

The SQL code provided creates a database schema for a gradebook application that manages the grades of students enrolled in courses taught by instructors. The schema consists of several tables including Instructor, Course, Student, Enrollment, Assignment, and Grade.

The Instructor table contains information about the instructors who teach the courses. The Course table contains information about the courses offered, including the CourseID, CourseName, and the Instructor who teaches the course. The Student table contains information about the students enrolled in the courses, including the StudentID and StudentName.

The Enrollment table establishes the relationship between courses and students, allowing students to be enrolled in one or more courses and recording the grade received by the student for the course. The Assignment table tracks the assignments given to students for a course and their submission date, and the Grade table tracks the grade received by the student for each assignment.

The relationships between the tables are established through foreign keys, with each table referencing another table in the schema. The primary goal of the project is to provide a system for managing grades for courses and assignments, allowing instructors to enter and update scores, students to view their grades, and admins to change grades if necessary. Additionally, the system provides features such as commenting on assignments and calculating average grades for a course.

