

Task 2 Commands:

Create

```
CREATE TABLE Courses (  
    department VARCHAR(50),  
    course_id INT,  
    course_number VARCHAR(10),  
    course_name VARCHAR(100),  
    semester VARCHAR(20),  
    year INT  
);
```

```
CREATE TABLE Assignments (  
    course_id INT,  
    category VARCHAR(50),  
    weight INT,  
    assignment_name VARCHAR(100)  
    -- FOREIGN KEY (course_id) REFERENCES Courses(course_id)  
);
```

```
CREATE TABLE Students (  
    student_id VARCHAR(50),  
    first_name VARCHAR(50),  
    last_name VARCHAR(50)  
    -- student_id SERIAL PRIMARY KEY  
);
```

```
CREATE TABLE Grades (  
    student_id VARCHAR(50),  
    course_id INT,  
    assignment_name VARCHAR(50),  
    score DECIMAL(5, 2)  
    -- FOREIGN KEY (student_id) REFERENCES Students(student_id),  
    -- FOREIGN KEY (course_id) REFERENCES Courses(course_id)  
);
```

Inserting Values

```
INSERT INTO Courses (department, course_id, course_number, course_name, semester, year)  
VALUES  
( 'Computer Science', '14216', 'CSCI350', 'Structure of Program Language', 'Spring', '2024'),  
( 'Computer Science', '14150', 'CSCI432', 'Database Systems', 'Spring', '2024'),  
( 'Computer Science', '17814', 'CSCI454', 'Intro to Cyber Security II', 'Spring', '2024');
```

```
INSERT INTO Assignments (course_id, category, weight, assignment_name) VALUES  
(14216, 'Attendance', 10, '4/16 Attendance');
```

```
(14216, 'Homework', 10, 'Homework 1'),
(14216, 'Homework', 10, 'Homework 2'),
(14216, 'Homework', 10, 'Homework 3'),
(14216, 'Tests', 40, 'Midterm Exam'),
(14216, 'Quizzes', 10, 'Quiz 1'),
(14216, 'Quizzes', 10, 'Quiz 2'),
(14150, 'Homework', 10, 'Homework 1'),
(14150, 'Homework', 10, 'Homework 2'),
(14150, 'Homework', 10, 'Homework 3'),
(14150, 'Tests', 30, 'Midterm Exam'),
(14150, 'Tests', 30, 'Final Exam'),
(17814, 'Participation', 5, '4/16 Class Participation'),
(17814, 'Quizzes', 10, 'Quiz 1'),
(17814, 'Quizzes', 10, 'Quiz 2'),
(17814, 'Tests', 40, 'Midterm Exam'),
(17814, 'Quizzes', 10, 'Quiz 3'),
(17814, 'Tests', 65, 'Final Exam');
```

```
INSERT INTO Students (student_id, first_name, last_name) VALUES
```

```
('@03034572', 'John', 'Doe'),
('@03032583', 'Bernell', 'Deamon'),
('@03032679', 'Jane', 'Smith'),
('@03064576', 'Jichael', 'Mohnson'),
('@03024769', 'Qavion', 'Mitchell'),
('@03018590', 'Ava', 'Phillips'),
('@03013847', 'Noah', 'Kelly'),
('@03056739', 'Kendra', 'Carter'),
('@03057602', 'Edward', 'Reese'),
('@03032571', 'Eva', 'Quawoa');
```

```
INSERT INTO Grades (student_id, course_id, assignment_name, score) VALUES
```

```
('@03034572', 14216, 'Homework 1', 90),
('@03032583', 14216, 'Homework 1', 98),
('@03032679', 14216, 'Homework 1', 88),
('@03064576', 14216, 'Homework 1', 62),
('@03034572', 14216, 'Homework 2', 100),
('@03032583', 14216, 'Homework 2', 80),
('@03032679', 14216, 'Homework 2', 65),
('@03034576', 14216, 'Homework 2', 82),
('@03034572', 14216, 'Homework 3', 85),
('@03032583', 14216, 'Homework 3', 70),
('@03032679', 14216, 'Homework 3', 80),
('@03034576', 14216, 'Homework 3', 92),
('@03034572', 14216, 'Quiz 1', 100),
```

('@03032583', 14216, 'Quiz 1', 70),
('@03032679', 14216, 'Quiz 1', 40),
('@03064576', 14216, 'Quiz 1', 80),
('@03034572', 14216, 'Midterm Exam', 69),
('@03032583', 14216, 'Midterm Exam', 76),
('@03032679', 14216, 'Midterm Exam', 84),
('@03064576', 14216, 'Midterm Exam', 92),
('@03034572', 14216, 'Quiz 2', 90),
('@03032583', 14216, 'Quiz 2', 60),
('@03032679', 14216, 'Quiz 2', 80),
('@03064576', 14216, 'Quiz 2', 100),
('@03034572', 14216, '4/16 Attendance', 100),
('@03032583', 14216, '4/16 Attendance', 100),
('@03032679', 14216, '4/16 Attendance', 100),
('@03064576', 14216, '4/16 Attendance', 100),
('@03032679', 14150, 'Homework 1', 100),
('@03062173', 14150, 'Homework 1', 80),
('@03024769', 14150, 'Homework 1', 79),
('@03018590', 14150, 'Homework 1', 90),
('@03013847', 14150, 'Homework 1', 75),
('@03034572', 14150, 'Homework 1', 85),
('@03032679', 14150, 'Homework 2', 84),
('@03062173', 14150, 'Homework 2', 78),
('@03024769', 14150, 'Homework 2', 91),
('@03018590', 14150, 'Homework 2', 96),
('@03013847', 14150, 'Homework 2', 72),
('@03034572', 14150, 'Homework 2', 87),
('@03032679', 14150, 'Midterm Exam', 70),
('@03062173', 14150, 'Midterm Exam', 70),
('@03024769', 14150, 'Midterm Exam', 77),
('@03018590', 14150, 'Midterm Exam', 64),
('@03013847', 14150, 'Midterm Exam', 80),
('@03034572', 14150, 'Midterm Exam', 80),
('@03032679', 14150, 'Homework 3', 97),
('@03062173', 14150, 'Homework 3', 81),
('@03024769', 14150, 'Homework 3', 88),
('@03018590', 14150, 'Homework 3', 83),
('@03013847', 14150, 'Homework 3', 79),
('@03034572', 14150, 'Homework 3', 93),
('@03032679', 14150, 'Final Exam', 70),
('@03062173', 14150, 'Final Exam', 70),
('@03024769', 14150, 'Final Exam', 77),
('@03018590', 14150, 'Final Exam', 64),
('@03013847', 14150, 'Final Exam', 80),

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('@03034572', 14150, 'Final Exam', 80),
('@03056739', 17814, '4/16 Class Participation', 100),
('@03057602', 17814, '4/16 Class Participation', 50),
('@03032571', 17814, '4/16 Class Participation', 100),
('@03034576', 17814, '4/16 Class Participation', 100),
('@03034572', 17814, '4/16 Class Participation', 50),
('@03013847', 17814, '4/16 Class Participation', 100),
('@03056739', 17814, 'Quiz 1', 60),
('@03057602', 17814, 'Quiz 1', 100),
('@03032571', 17814, 'Quiz 1', 80),
('@03034576', 17814, 'Quiz 1', 20),
('@03034572', 17814, 'Quiz 1', 80),
('@03013847', 17814, 'Quiz 1', 100),
('@03056739', 17814, 'Quiz 2', 80),
('@03057602', 17814, 'Quiz 2', 70),
('@03032571', 17814, 'Quiz 2', 90),
('@03034576', 17814, 'Quiz 2', 40),
('@03034572', 17814, 'Quiz 2', 0),
('@03013847', 17814, 'Quiz 2', 100),
('@03056739', 17814, 'Midterm Exam', 80),
('@03057602', 17814, 'Midterm Exam', 70),
('@03032571', 17814, 'Midterm Exam', 85),
('@03034576', 17814, 'Midterm Exam', 75),
('@03034572', 17814, 'Midterm Exam', 60),
('@03013847', 17814, 'Midterm Exam', 88),
('@03056739', 17814, 'Quiz 3', 90),
('@03057602', 17814, 'Quiz 3', 60),
('@03032571', 17814, 'Quiz 3', 100),
('@03034576', 17814, 'Quiz 3', 70),
('@03034572', 17814, 'Quiz 3', 80),
('@03013847', 17814, 'Quiz 3', 90),
('@03056739', 17814, 'Final Exam', 73),
('@03057602', 17814, 'Final Exam', 86),
('@03032571', 17814, 'Final Exam', 92),
('@03034576', 17814, 'Final Exam', 78),
('@03034572', 17814, 'Final Exam', 69),
('@03013847', 17814, 'Final Exam', 81);

```

Task 3 Commands:

```

SELECT * FROM Courses;
SELECT * FROM Assignments;
SELECT * FROM Students;
SELECT * FROM Grades;

```

Task 4 Commands:

CALL ComputeAssignmentStats('Quiz 1', 17814); -- Replace with Assignment & Course ID

Task 5 Commands:

CALL GetStudentsInCourse(14216); -- Replace with Course ID

Task 6 Commands:

CALL GetStudentScoresInCourse(14216); -- Replace with Course ID

Task 7 Commands:

CALL AddAssignmentToCourse(14216, 'Homework', 10, 'Homework 4'); -- Example call to add an assignment in course "14216"

Task 8 Commands:

CALL ChangeCategoryWeightsInCourse(14216, 15, 50, 20, 5);

Task 9 Commands:

CALL AddPointsToAssignmentScoresInCourse(14216, 'Homework 1', 2); -- Example call to add 2 points to each student's score on 'Homework 1' in course "14216"

Task 10 Commands:

CALL AddPointsToAssignmentForStudentsWithQLastName('Quiz 1');

Task 11 Commands:

CALL ComputeFinalGradeForStudent('@03034572', 14216); -- Replace Student ID and Course ID

Task 12 Commands:

CALL ComputeFinalGradeWithLowestDropped('@03034572', 14216, 'Midterm');