

# Student Grading Management Sub-System

## Lời nói đầu

### 1. Thông tin cá nhân

- Họ và tên: Hà Mạnh Đạt
- Mã số sinh viên: HE160594
- Lớp: IA1604
- Chuyên ngành: An toàn thông tin
- Email: [dathmhe160594@fpt.edu.vn](mailto:dathmhe160594@fpt.edu.vn)
- Số điện thoại: 0345562537

### 2. Giới thiệu về báo cáo

- Bài báo cáo này làm về “Student Grading Management Sub-System” nhằm quản lý điểm cho sinh viên bằng SQL server theo yêu cầu của giảng viên Ngô Tùng Sơn- Giảng viên môn DBI lớp IA1604.

## Mục Lục

### I. Phân tích dữ liệu của đề bài

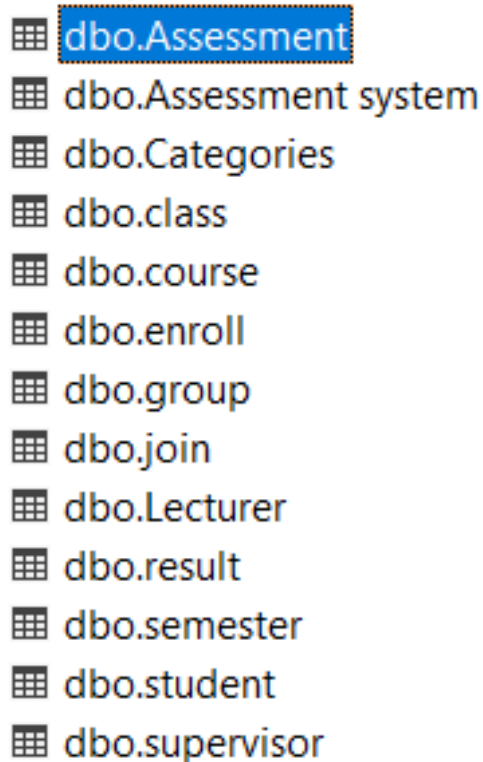
1. The assessments for course DBI202.
2. Status subject of student
3. detailed result

### II. Giả thiết về các đối tượng và quan hệ

1. Entities.
2. Relationships.
3. Attributes.

**III. Sơ đồ quan hệ(entity relationship diagram)**

**IV. Chuẩn hóa dữ liệu dạng 3rd Normal Form cho các table**



A screenshot of a database interface showing a list of tables in the 'dbo' schema. The tables are listed vertically, each preceded by a small grid icon. The first table, 'dbo.Assessment', is highlighted with a blue background and a red dashed border. The other tables are 'dbo.Assessment system', 'dbo.Categories', 'dbo.class', 'dbo.course', 'dbo.enroll', 'dbo.group', 'dbo.join', 'dbo.Lecturer', 'dbo.result', 'dbo.semester', 'dbo.student', and 'dbo.supervisor'.

- dbo.Assessment
- dbo.Assessment system
- dbo.Categories
- dbo.class
- dbo.course
- dbo.enroll
- dbo.group
- dbo.join
- dbo.Lecturer
- dbo.result
- dbo.semester
- dbo.student
- dbo.supervisor

**V. Module Diagram**

**VI. Phân tích MD và dữ liệu của database**

**VII. Tạo Database và insert dữ liệu:**

**VIII. Các câu lệnh Query**

1. INDEXES
2. STORED PROCEDURE
3. TRIGGER
4. 10 queries

**I. Phân tích dữ liệu của đề bài**

1. The assessments for course DBI202.

5 assessment(s)

| Category       | Type           | Part | Weight | Completion Criteria | Duration       | LO | Question Type   | No Question | Knowledge and Skill   | Grading Guide  | Note   |
|----------------|----------------|------|--------|---------------------|----------------|----|---|-------------|---|--|--|
| Progress Tests | quiz           | 2    | 10.0%  | >0                  | 20'            |    | Multiple choices<br>Marked by Computer or a suitable format | 20          | up to 04 covered chapters   | by instructor using computer                           | Instruction and schedules for Progress tests must be presented in the Course Implementation Plan approved by director of the campus.<br><br>Progress test must be taken right after the last lectures of required material.<br><br>Instructor has responsibility to review the test for students after graded. |
| Assignment     | on-going       | 1    | 20.0%  | >0                  | at home        |    | Design; Implementation; Presentation                        |             | Simple RDBS design and implementation using a DBMS  | guided by instructor; prepare at home present in class | 40% Design, 20% Implementation, 40% Presentation of the whole Project  |
| Labs           | on-going       | 5    | 15.0%  | >0                  | in lab session |    | practical exercises   |             | related to studied modules  | Guided by instructor                                   | may be continued at home.  |
| Practical Exam | practical exam | 1    | 25.0%  | >0                  | 85'            |    | Preferable to be marked by Scripts                          |             | DB programming skills   | by exam board and department                           | Practical Exam database is up load in CMS in advanced.   |
| Final Exam     | final exam     | 1    | 30.0%  | 5                   | 60'            |    | Multiple choices<br>Marked by Computer                      | 60          | Knowledge and skills in the course, but with much focus on the items in Chapters 2 to 6, >= 70% new questions (for the current semester); | by exam board  |  |

- Ta có thể thấy được bảng có nội dung là các bài test, hoặc đầu điểm mà một sinh viên phải đáp ứng để hoàn thành 1 môn học.
- Bảng bao gồm các cột :
  - + Category: Loại bài test / đầu điểm.
  - + Type: Kiểu bài test.
  - + Part: Bao gồm bao nhiêu phần.
  - + Weight: Trọng số của số điểm bài test đó ảnh hưởng lên điểm trung bình môn học.
  - + Completion Criteria: Điều kiện pass môn.
  - + Duration: Thời lượng của bài test.
  - + Question Type: Loại câu hỏi xuất hiện.
  - + No Question: Số lượng câu hỏi 1 bài.
  - + Knowledge and Skill: Kiến thức và kĩ năng cần thiết để có thể làm được bài test.
  - + Grading Guide: Hướng dẫn cho điểm.
  - + Note: Chú thích của giáo viên.
- Nhận thấy rằng mỗi 1 môn đều có những loại bài test khác nhau (không phải 1 cơ cấu đánh giá điểm như trong hình được áp dụng cho tất cả các môn).
- Do vậy cần 1 entity là category lưu lại tất cả các loại bài test và các thông số cơ bản mà luôn áp dụng cho bài test đó.

## 2. Status subject of student

| NO. | SUBJECT CODE | SUBJECT NAME                              | SEMESTER   | GROUP | STARTDATE | ENDDATE | AVERAGE MARK | STATUS                 |
|-----|--------------|---|------------|-------|-----------|---------|--------------|------------------------|
| 1   | SSL101c      | Academic Skills for University Success    | Spring2021 |       |           |         |              | Not Passed             |
| 2   | SSG103       | Communication and In-Group Working Skills | Summer2021 |       |           |         |              | Passed                 |
| 3   | NWC203c      | Computer Networking                       | Summer2021 |       |           |         |              | Passed                 |
| 4   | CEA201       | Computer Organization and Architecture    | Spring2021 |       |           |         |              | Passed                 |
| 5   | MAD101       | Discrete mathematics                      | Summer2021 |       |           |         |              | Passed                 |
| 6   | JPD113       | Elementary Japanese 1-A1.1                | Fall2021   |       |           |         |              | Passed                 |
| 7   | CSI104       | Introduction to Computer Science          | Spring2021 |       |           |         |              | Passed                 |
| 8   | DBI202       | Introduction to Databases                 | Fall2021   |       |           |         |              | Not Passed             |
| 9   | LUK1         | Level 1                                   | Fall2019   |       |           |         |              | Passed                 |
| 10  | LUK2         | Level 2                                   | Spring2020 |       |           |         |              | Passed                 |
| 11  | LUK3         | Level 3                                   | Spring2020 |       |           |         |              | Passed                 |
| 12  | LUK4         | Level 4                                   | Summer2020 |       |           |         |              | Pass (with conditions) |
| 13  | LUK5         | Level 5                                   | Summer2020 |       |           |         |              | Passed                 |
| 14  | LUK6         | Level 6                                   | Fall2020   |       |           |         |              | Passed                 |
| 15  | MAE101       | Mathematics for Engineering               | Spring2021 |       |           |         |              | Passed                 |
| 16  | GDQP         | Military training                         | Fall2019   |       |           |         |              | Passed                 |
| 17  | PRO192       | Object-Oriented Programming               | Fall2021   |       |           |         |              | Passed                 |
| 18  | PRO192       | Object-Oriented Programming               | Fall2021   |       |           |         |              | Not Passed             |
| 19  | OSG202       | Operating Systems                         | Summer2021 |       |           |         |              | Passed                 |
| 20  | PRF192       | Programming Fundamentals                  | Summer2021 |       |           |         |              | Not Passed             |
| 21  | PRF192       | Programming Fundamentals                  | Spring2021 |       |           |         |              | Attendance Fail        |
| 22  | DTB102       | Traditional musical instrument            | Summer2020 |       |           |         |              | Passed                 |
| 23  | VOV114       | Vovinam 1                                 | Fall2019   |       |           |         |              | Passed                 |
| 24  | VOV124       | Vovinam 2                                 | Summer2020 |       |           |         |              | Passed                 |
| 25  | VOV134       | Vovinam 3                                 | Summer2020 |       |           |         |              | Passed                 |

- Bảng này cho ta thấy những môn mà sinh viên đã tham gia và trạng thái môn của sinh viên đó.
  - + Bảng bao gồm các cột:
  - + No: Số hiệu / Số thứ tự.
  - + Subject Code: Mã số của môn học.
  - + Subject Name: Tên của môn học.
  - + Semester: Kỳ học mà sinh viên đã tham gia môn học tương ứng.
  - + Group: Nhóm sinh viên mà sinh viên này đã tham gia học cùng môn học tương ứng.
  - + Start Date: Ngày bắt đầu của môn học tương ứng.
  - + End Date: Ngày kết thúc của môn học tương ứng.
  - + Average Mark: Điểm trung bình của sinh viên ở môn học tương ứng.
  - + Status: Trạng thái của sinh viên ở môn học tương ứng (passed or not passed).
- Thấy rằng bảng này chứa nhiều thông tin và attributes có thể làm thành key. Điều này khiến cho table không đạt chuẩn.

- Do vậy một bảng này không thể chỉ được thể hiện trong 1 entity được, phải thông qua nhiều các entities nhỏ hơn, nhằm tránh việc vi phạm vào 3rd-Normal Standard.

### 3. Detailed result

| GRADE CATEGORY      | GRADE ITEM       | WEIGHT        | VALUE | COMMENT |
|---------------------|------------------|---------------|-------|---------|
| Quiz 2              | Quiz 2           | 7.0 %         | 7.8   |         |
|                     | Total            | 7.0 %         | 7.8   |         |
| Quiz 1              | Quiz 1           | 8.0 %         | 7.6   |         |
|                     | Total            | 8.0 %         | 7.6   |         |
| Activity            | Activity         | 10.0 %        | 8.5   |         |
|                     | Total            | 10.0 %        | 8.5   |         |
| Group Assignment    | Group Assignment | 15.0 %        | 9     |         |
|                     | Total            | 15.0 %        | 9     |         |
| Group Project       | Group Project    | 30.0 %        | 8.3   |         |
|                     | Total            | 30.0 %        | 8.3   |         |
| Final Exam          | Final Exam       | 30.0 %        | 8.6   |         |
|                     | Total            | 30.0 %        | 8.6   |         |
| Final Exam Resit    | Final Exam Resit | 30.0 %        |       |         |
|                     | Total            | 30.0 %        |       |         |
|                     |                  |               |       |         |
| <b>COURSE TOTAL</b> | <b>AVERAGE</b>   | <b>8.4</b>    |       |         |
|                     | <b>STATUS</b>    | <b>PASSED</b> |       |         |

- Bảng này cho ta thấy điểm và trạng thái môn học của 1 sinh viên
- Bảng gồm 5 cột:
  - + Grade Category: Các loại đầu điểm mà sinh viên phải có trong môn học này.
  - + Grade Item: Từng phần của mỗi loại đầu điểm.
  - + Weight: Trọng số của từng đầu điểm đối với môn học này.
  - + Value: Điểm số sinh viên đạt được ứng với mỗi bài test.
  - + Comment: Một số lời nhắc hoặc chú ý thì sẽ được note vào cột này
- Phía cuối sau khi kết thúc bảng điểm, xuất ra điểm trung bình môn và trạng thái. 2 dòng này có thể cũng là 1 attribute của entity.
- Để thu được bảng này, ta cần join nhiều bảng khác lại với nhau, vì riêng nó khó có thể làm 1 entity mà không vi phạm 3rd-Normal Form Standard

## II. Giả thiết về các đối tượng và quan hệ

### 1. Entities.

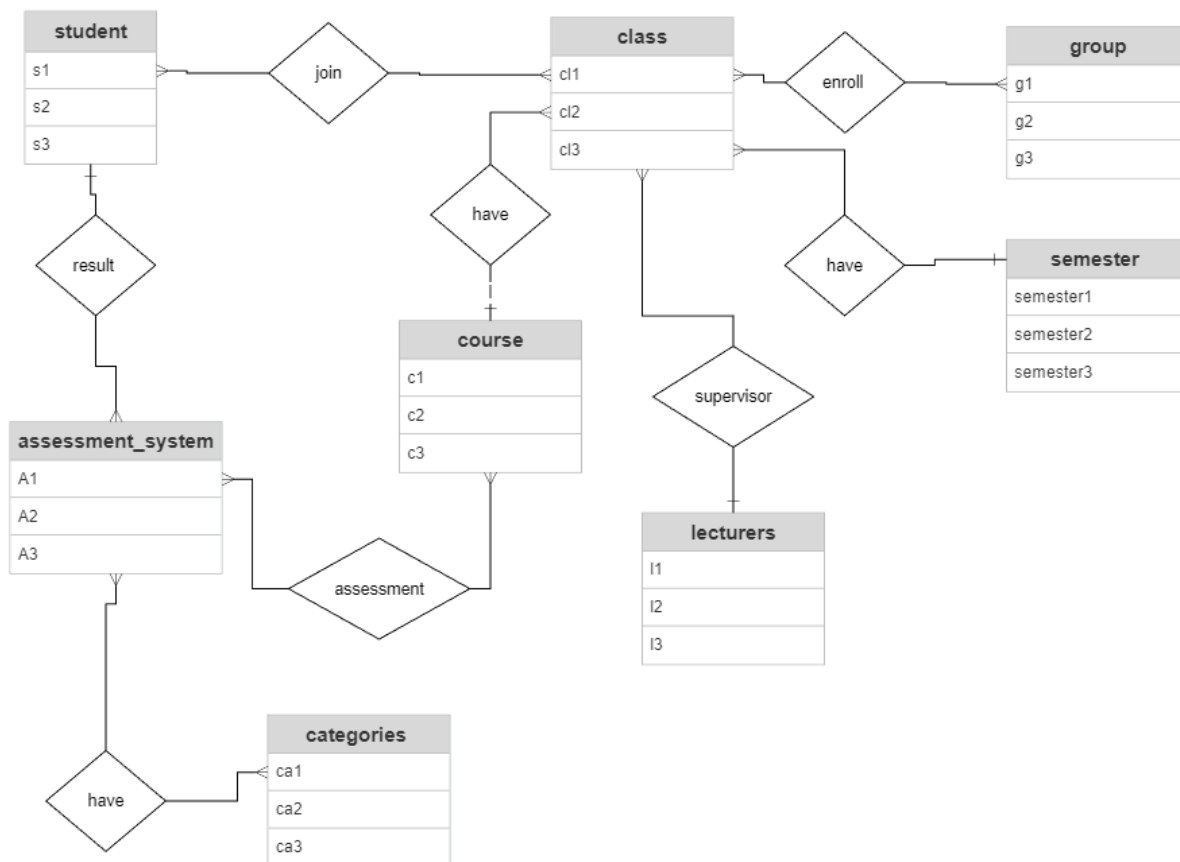
- **STUDENT:** thực thể mà ta cần quản lí, cũng như các trạng thái liên của của thực thể này
- **COURSE: STUDENT** sẽ tham gia ( enroll ) vào các môn học, nhằm lấy kiến thức, điểm để có thể pass môn
- **LECTURER:** người sẽ quản lí và cho điểm **STUDENT**
- **CLASS: STUDENT** sẽ tham gia các lớp học được giảng dạy bởi các **LECTURER**
- **GROUP:** tất cả các sinh viên có chung **COURSE**, nhưng khác **CLASS**
- **CATEGORIES:** tổng hợp các bài test của các môn.

### 2. Relationships.

- Đối với **Groups** và **Classes** , các nhóm sẽ được phân vào các lớp học với giảng viên và môn học tương ứng với kì học hiện tại của nhóm sinh viên đó. Một nhóm có thể tham gia nhiều lớp học, và 1 lớp cũng có thể có nhiều nhóm tham gia. Do vậy, ta sẽ đặt 2 entities này vào 1 quan hệ N—N.
- Đối với **Courses** và **Classes** , mỗi lớp có 1 môn học nhưng một môn học thì lại có nhiều lớp khác nhau. Do vậy, 2 entities này sẽ được đặt vào quan hệ Courses 1—N Classes .
- Đối với **Courses** và **Categories** , một môn học thì được đánh giá qua nhiều bài test và một bài test thì cũng được dùng để đánh giá nhiều môn học. Do vậy, 2 entities này sẽ được đặt vào quan hệ Courses N—N Categories .
- Đối với **Lecturers** và **Classes** , một lớp thì cũng sẽ chỉ có 1 giảng viên tham gia giảng dạy chính và một giảng viên cũng được phân vào nhiều lớp để giảng dạy. Do vậy, 2 entities này cũng sẽ được đặt vào quan hệ Lecturers 1—N Classes .
- Đối với **Lecturers** và **Courses** , một giảng viên có thể dạy được nhiều môn học và một môn học cũng có thể được dạy bởi nhiều giảng viên. Phụ thuộc vào kì học, 1 giảng viên có thể được phân công dạy 1 môn ở kì này, nhưng có thể không phải dạy môn đó ở kì khác, nên 2 entities này cũng sẽ được đặt vào 1 quan hệ N—N.

- Đối với **Lecturers** và **Students** , giảng viên sẽ giảng dạy các môn học theo các lớp, các sinh viên sẽ tham gia vào các lớp này ứng với các nhóm được phân vào. 1 kì học, sinh viên học 5 môn có thể có tối đa 5 giảng viên giảng dạy, 1 giảng viên dạy nhiều lớp cũng gồm nhiều sinh viên theo học
- Đối với **Students** và **Courses** , học sinh khi tham gia vào các lớp theo nhóm thì cũng có quan hệ với môn học thông qua các lớp đó. Trong 1 kì, sinh viên được trường phân cho 5 lớp ứng với 5 môn, nhưng sinh viên cũng có thể đăng kí thêm hoặc đăng kí tạm hoãn. Một môn học cũng sẽ được dạy cho rất nhiều sinh viên.
- Đối với **Groups** và **Courses** , các nhóm được phân vào các lớp, và các lớp lại được giao cho các môn học riêng. Do vậy các nhóm cũng có quan hệ với môn học thông qua các lớp. trong 1 kì, các nhóm sẽ được phân cho học nhiều môn, và 1 môn cũng được đem đi dạy cho nhiều nhóm sinh viên.
- Đối với **Students** và **Classes** , sinh viên sẽ được phân vào các nhóm và các nhóm sẽ được phân vào học ở các lớp khác nhau ở mỗi kì, sinh viên sẽ có quan hệ với lớp thông qua các nhóm. Trong 1 kì, sinh viên có thể tham gia nhiều lớp, và 1 lớp cũng được phân cho nhiều nhóm có nhiều sinh viên.
- Đối với **Lecturers** và **Groups** , các giảng viên được giao cho vào các lớp học, các nhóm sinh viên học lại được phân vào học ở các lớp. Do vậy, giảng viên và các nhóm sinh viên cũng có quan hệ với các giảng viên thông qua các lớp. Trong 1 kì, 1 nhóm sinh viên được nhiều giảng viên dạy, 1 giảng viên cũng giảng dạy cho nhiều nhóm sinh viên.

### III. Sơ đồ quan hệ(entity relationship diagram)



## IV. Chuẩn hóa dữ liệu dạng 3rd Normal Form cho các table

Sau khi chuẩn hóa dữ liệu về dạng 3rd Normal Form, ta thu được các table:

### 1. Assessment



| Column Name | Data Type   |
|-------------|-------------|
| CiD         | varchar(50) |
| Aid         | nchar(10)   |

## 2. Assessment system

| Column Name           | Data Type    |
|-----------------------|--------------|
| Aid                   | nchar(10)    |
| CalD                  | varchar(50)  |
| type                  | varchar(50)  |
| part                  | varchar(50)  |
| [No question]         | int          |
| LO                    | varchar(50)  |
| duration              | varchar(50)  |
| [question type]       | varchar(50)  |
| [Knowledge and skill] | varchar(150) |
| [greading guide]      | varchar(150) |
| weight                | float        |
| note                  | varchar(150) |

## 3. Categories

| Column Name           | Data Type    |
|-----------------------|--------------|
| CalD                  | varchar(50)  |
| category              | varchar(150) |
| type                  | varchar(50)  |
| [Completion Criteria] | varchar(50)  |

## 4. Class

| Column Name | Data Type   |
|-------------|-------------|
| CLid        | nchar(10)   |
| CiD         | varchar(50) |
| semester    | varchar(50) |

## 5. Course

| Column Name | Data Type    |
|-------------|--------------|
| CiD         | varchar(50)  |
| CourseName  | varchar(150) |

## 6. Enroll

| Column Name | Data Type   |
|-------------|-------------|
| GiD         | varchar(50) |
| CLid        | nchar(10)   |

## 7. Group

| Column Name         | Data Type   |
|---------------------|-------------|
| GiD                 | varchar(50) |
| GroupName           | varchar(50) |
| [number of student] | varchar(50) |

## 8. Join

| Column Name | Data Type   |
|-------------|-------------|
| SiD         | varchar(50) |
| CLid        | nchar(10)   |

## 9. Lecturer

| Column Name  | Data Type    |
|--------------|--------------|
| LiD          | varchar(50)  |
| LecturerName | varchar(150) |
| mail         | varchar(50)  |
| gender       | bit          |
| dob          | date         |

## 10. Result

| Column Name | Data Type   |
|-------------|-------------|
| Sid         | varchar(50) |
| Aid         | nchar(10)   |
| date        | date        |
| Score       | float       |

## 11. Semester

| Column Name  | Data Type   |
|--------------|-------------|
| semester     | varchar(50) |
| [start date] | date        |
| [end date]   | date        |

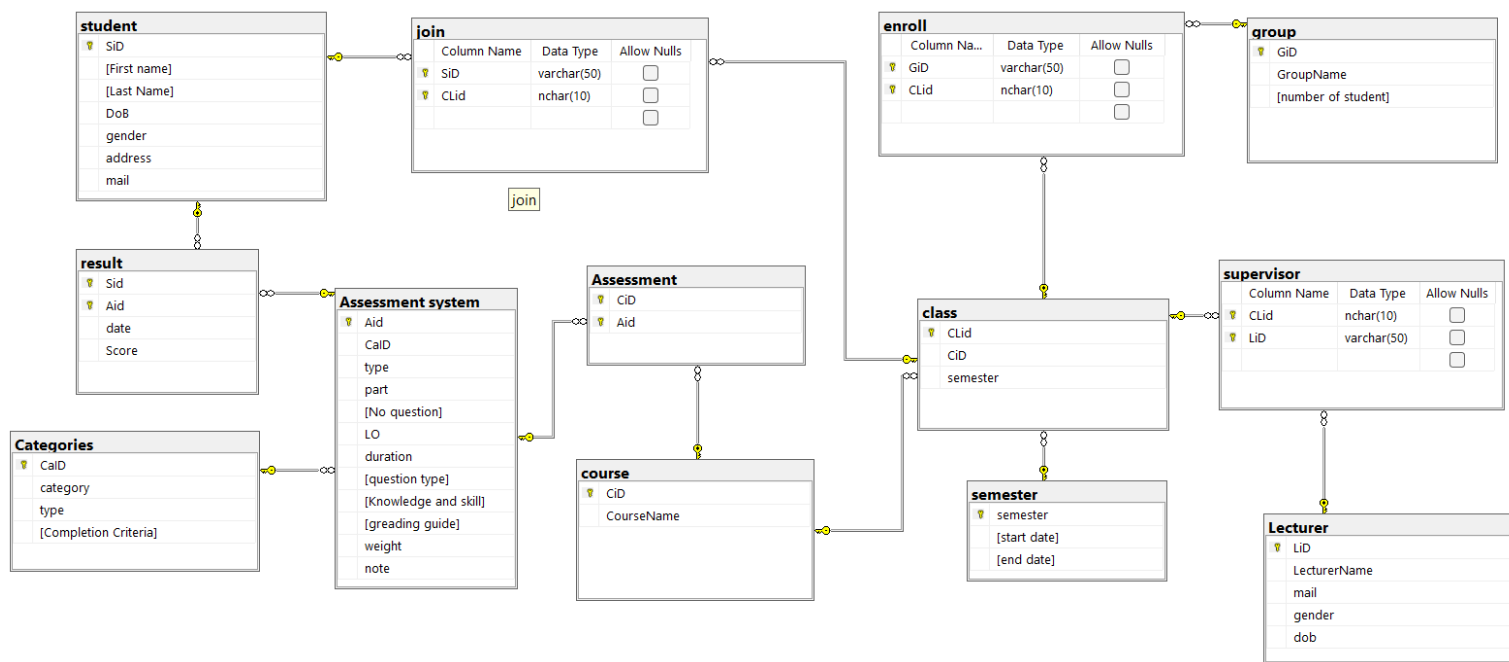
## 12. Student

| Column Name  | Data Type    |
|--------------|--------------|
| SiD          | varchar(50)  |
| [First name] | varchar(150) |
| [Last Name]  | varchar(150) |
| DoB          | date         |
| gender       | bit          |
| address      | varchar(150) |
| mail         | varchar(50)  |

## 13. Supervisor

| Column Name | Data Type   |
|-------------|-------------|
| CLid        | nchar(10)   |
| LiD         | varchar(50) |

# V. Module Diagram



## VI. Phân tích MD và dữ liệu của database

### 1. Assessment


|   | Column Name | Data Type   | Allow Nulls              |
|---|-------------|-------------|--------------------------|
| 🔑 | CiD         | varchar(50) | <input type="checkbox"/> |
| 🔑 | Aid         | nchar(10)   | <input type="checkbox"/> |

- Primary key(CiD,AiD)
- Là table quan hệ của **Course** và **Assessment\_System**


### 2. Assessment system

- Primary key(AiD)
- AsID: Dữ liệu này có dạng: CCCSSS
  - + Vị trí CCC là biểu thị tên môn học ở dạng viết hoa các chữ cái đầu.
  - + Vị trí SSS là biểu thị tên đầu điểm đánh giá / bài test ở dạng viết hoa các chữ cái đầu.
  - + Ví dụ: DBIAS - môn học DBI202, đầu điểm là Assignment

- CaID: Tương ứng với CatID của bảng Categories, và là foreign key


|   | Column Name           | Data Type    | Allow Nulls                         |
|---|-----------------------|--------------|-------------------------------------|
|  | Aid                   | nchar(10)    | <input type="checkbox"/>            |
|   | CaID                  | varchar(50)  | <input type="checkbox"/>            |
|   | type                  | varchar(50)  | <input checked="" type="checkbox"/> |
|   | part                  | varchar(50)  | <input checked="" type="checkbox"/> |
|   | [No question]         | int          | <input type="checkbox"/>            |
|   | LO                    | varchar(50)  | <input checked="" type="checkbox"/> |
|   | duration              | varchar(50)  | <input type="checkbox"/>            |
|   | [question type]       | varchar(50)  | <input checked="" type="checkbox"/> |
|   | [Knowledge and skill] | varchar(150) | <input checked="" type="checkbox"/> |
|   | [grading guide]       | varchar(150) | <input checked="" type="checkbox"/> |
|   | weight                | float        | <input checked="" type="checkbox"/> |
|   | note                  | varchar(150) | <input checked="" type="checkbox"/> |

### 3. Categories

|   | Column Name           | Data Type    | Allow Nulls              |
|---|-----------------------|--------------|--------------------------|
|  | CaID                  | varchar(50)  | <input type="checkbox"/> |
|   | category              | varchar(150) | <input type="checkbox"/> |
|   | type                  | varchar(50)  | <input type="checkbox"/> |
|   | [Completion Criteria] | varchar(50)  | <input type="checkbox"/> |


- Primary key(CaID)

### 4. Class

|   | Column Name | Data Type   | Allow Nulls              |
|---|-------------|-------------|--------------------------|
|  | CLid        | nchar(10)   | <input type="checkbox"/> |
|   | CiD         | varchar(50) | <input type="checkbox"/> |
|   | semester    | varchar(50) | <input type="checkbox"/> |



- Primary key(CLid)
- Foreign key(CiD)

### 5. Course

|   | Column Name | Data Type    | Allow Nulls              |
|---|-------------|--------------|--------------------------|
|  | CiD         | varchar(50)  | <input type="checkbox"/> |
|   | CourseName  | varchar(150) | <input type="checkbox"/> |


- Primary key(CiD)

## 6. Enroll

|   | Column Name | Data Type   | Allow Nulls              |
|---|-------------|-------------|--------------------------|
|  | GiD         | varchar(50) | <input type="checkbox"/> |
|  | CLiD        | nchar(10)   | <input type="checkbox"/> |



- Primary key(GiD,CLiD)
- Là table quan hệ của **Group** và **Class**

## 7. Group

|   | Column Name         | Data Type   | Allow Nulls              |
|---|---------------------|-------------|--------------------------|
|  | GiD                 | varchar(50) | <input type="checkbox"/> |
|   | GroupName           | varchar(50) | <input type="checkbox"/> |
|   | [number of student] | varchar(50) | <input type="checkbox"/> |


- Primary key(GiD)

## 8. Join

|   | Column Name | Data Type   | Allow Nulls              |
|---|-------------|-------------|--------------------------|
|  | SiD         | varchar(50) | <input type="checkbox"/> |
|  | CLiD        | nchar(10)   | <input type="checkbox"/> |

- Primary key(SiD,CLiD)
- Là table quan hệ của **Student** và **Class**

## 9. Lecturer

|   | Column Name  | Data Type    | Allow Nulls                         |
|---|--------------|--------------|-------------------------------------|
|  | LiD          | varchar(50)  | <input type="checkbox"/>            |
|   | LecturerName | varchar(150) | <input type="checkbox"/>            |
|   | mail         | varchar(50)  | <input checked="" type="checkbox"/> |
|   | gender       | bit          | <input checked="" type="checkbox"/> |
|   | dob          | date         | <input checked="" type="checkbox"/> |

- Primary key(LiD)

## 10. Result

|   | Column Name | Data Type   | Allow Nulls              |
|---|-------------|-------------|--------------------------|
| 🔑 | Sid         | varchar(50) | <input type="checkbox"/> |
| 🔑 | Aid         | nchar(10)   | <input type="checkbox"/> |
|   | date        | date        | <input type="checkbox"/> |
|   | Score       | float       | <input type="checkbox"/> |
| ▶ | status      | bit         | <input type="checkbox"/> |

- Primary key(SiD,AiD)
- Là table quan hệ của **Student** và **Assessment\_System**

## 11.Semester

|   | Column Name  | Data Type   | Allow Nulls                         |
|---|--------------|-------------|-------------------------------------|
| 🔑 | semester     | varchar(50) | <input type="checkbox"/>            |
|   | [start date] | date        | <input checked="" type="checkbox"/> |
|   | [end date]   | date        | <input checked="" type="checkbox"/> |

- Primary key(semester )

## 12. Student

|   | Column Name  | Data Type    | Allow Nulls                         |
|---|--------------|--------------|-------------------------------------|
| 🔑 | SiD          | varchar(50)  | <input type="checkbox"/>            |
|   | [First name] | varchar(150) | <input type="checkbox"/>            |
|   | [Last Name]  | varchar(150) | <input checked="" type="checkbox"/> |
|   | DoB          | date         | <input type="checkbox"/>            |
|   | gender       | bit          | <input type="checkbox"/>            |
|   | address      | varchar(150) | <input checked="" type="checkbox"/> |
|   | mail         | varchar(50)  | <input checked="" type="checkbox"/> |

- Primary key(SiD)

## 13. Supervisor

|   | Column Name | Data Type   | Allow Nulls              |
|---|-------------|-------------|--------------------------|
| 🔑 | CLid        | nchar(10)   | <input type="checkbox"/> |
| 🔑 | LiD         | varchar(50) | <input type="checkbox"/> |

- Primary key(CLid,LiD)

- Là table quan hệ của **Class** và **Lecturer**

## VII. Tạo Database và insert dữ liệu:

```
USE [AssignmentDBI]
GO

/***** Object:  Table [dbo].[Assessment]      Script Date: 7/17/2022
3:06:05 PM *****/

SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Assessment] (
    [CiD] [varchar] (50) NOT NULL,
    [Aid] [nchar] (10) NOT NULL,
    PRIMARY KEY CLUSTERED
(
    [CiD] ASC,
    [Aid] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY
= OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

/***** Object:  Table [dbo].[Assessment system]  Script Date:
7/17/2022 3:06:06 PM *****/

SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Assessment system] (
    [Aid] [nchar] (10) NOT NULL,
    [CaID] [varchar] (50) NOT NULL,
    [type] [varchar] (50) NULL,
```



```

        [part] [varchar] (50) NULL,
        [No question] [int] NOT NULL,
        [LO] [varchar] (50) NULL,
        [duration] [varchar] (50) NOT NULL,
        [question type] [varchar] (50) NULL,
        [Knowledge and skill] [varchar] (150) NULL,
        [greading guide] [varchar] (150) NULL,
        [weight] [float] NULL,
        [note] [varchar] (150) NULL,
CONSTRAINT [PK_Assessment system] PRIMARY KEY CLUSTERED
(
        [Aid] ASC
)WITH (PAD_INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE_DUP_KEY
= OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

/***** Object:  Table [dbo].[Categories]      Script Date: 7/17/2022
3:06:06 PM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[Categories](
        [CaID] [varchar] (50) NOT NULL,
        [category] [varchar] (150) NOT NULL,
        [type] [varchar] (50) NOT NULL,
        [Completion Criteria] [varchar] (50) NOT NULL,
CONSTRAINT [PK_Categories] PRIMARY KEY CLUSTERED
(
        [CaID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS NORECOMPUTE = OFF, IGNORE_DUP_KEY
= OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE FOR SEQUENTIAL KEY = OFF) ON [PRIMARY]
) ON [PRIMARY]
GO

```

/\*\*\*\*\* Object: Table [dbo].[class] Script Date: 7/17/2022  
3:06:06 PM \*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[class] (

[CLid] [nchar](10) NOT NULL,

[CiD] [varchar](50) NULL,

[semester] [varchar](50) NOT NULL,

CONSTRAINT [PK\_class] PRIMARY KEY CLUSTERED

(

[CLid] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\* Object: Table [dbo].[course] Script Date: 7/17/2022  
3:06:06 PM \*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[course] (

[CiD] [varchar](50) NOT NULL,

[CourseName] [varchar](150) NOT NULL,

CONSTRAINT [PK\_course] PRIMARY KEY CLUSTERED

(

[CiD] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\* Object: Table [dbo].[enroll] Script Date: 7/17/2022  
3:06:06 PM \*\*\*\*\*/

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[enroll] (
```

```
    [GiD] [varchar](50) NOT NULL,
```

```
    [CLid] [nchar](10) NOT NULL,
```

```
PRIMARY KEY CLUSTERED
```

```
(
```

```
    [CLid] ASC,
```

```
    [GiD] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
```

```
) ON [PRIMARY]
```

```
GO
```

```
/***** Object: Table [dbo].[group] Script Date: 7/17/2022 3:06:06 PM *****/
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[group] (
```

```
    [GiD] [varchar](50) NOT NULL,
```

```
    [GroupName] [varchar](50) NOT NULL,
```

```
    [number of student] [varchar](50) NOT NULL,
```

```
CONSTRAINT [PK_group] PRIMARY KEY CLUSTERED
```

```
(
```

```
    [GiD] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
```

```
) ON [PRIMARY]
```

```
GO
```

```
/***** Object: Table [dbo].[join] Script Date: 7/17/2022 3:06:06 PM *****/
```

```
SET ANSI_NULLS ON
```

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[join] (

[SiD] [varchar] (50) NOT NULL,

[CLid] [nchar] (10) NOT NULL,

PRIMARY KEY CLUSTERED

(

[CLid] ASC,

[SiD] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\* Object: Table [dbo].[Lecturer] Script Date: 7/17/2022 3:06:06 PM \*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Lecturer] (

[LiD] [varchar] (50) NOT NULL,

[LecturerName] [varchar] (150) NOT NULL,

[mail] [varchar] (50) NULL,

[gender] [bit] NULL,

[dob] [date] NULL,

CONSTRAINT [PK\_Lecturer] PRIMARY KEY CLUSTERED

(

[LiD] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\* Object: Table [dbo].[result ] Script Date: 7/17/2022 3:06:06 PM \*\*\*\*\*/

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[result ] (
```

```
    [Sid] [varchar](50) NOT NULL,
```

```
    [Aid] [nchar](10) NOT NULL,
```

```
    [date] [date] NOT NULL,
```

```
    [Score] [float] NOT NULL,
```

```
PRIMARY KEY CLUSTERED
```

```
(
```

```
    [Aid] ASC,
```

```
    [Sid] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY  
= OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,  
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
```

```
) ON [PRIMARY]
```

```
GO
```

```
/***** Object: Table [dbo].[semester] Script Date: 7/17/2022  
3:06:06 PM *****/
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[semester] (
```

```
    [semester] [varchar](50) NOT NULL,
```

```
    [start date] [date] NULL,
```

```
    [end date] [date] NULL,
```

```
CONSTRAINT [PK_semester] PRIMARY KEY CLUSTERED
```

```
(
```

```
    [semester] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY  
= OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,  
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
```

```
) ON [PRIMARY]
```

```
GO
```

```
/***** Object: Table [dbo].[student] Script Date: 7/17/2022
3:06:06 PM *****/
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[student] (
```

```
    [SiD] [varchar](50) NOT NULL,
```

```
    [First name] [varchar](150) NOT NULL,
```

```
    [Last Name] [varchar](150) NULL,
```

```
    [DoB] [date] NOT NULL,
```

```
    [gender] [bit] NOT NULL,
```

```
    [address] [varchar](150) NULL,
```

```
    [mail] [varchar](50) NULL,
```

```
    CONSTRAINT [PK_student] PRIMARY KEY CLUSTERED
```

```
(
```

```
    [SiD] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY
= OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON,
OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
```

```
) ON [PRIMARY]
```

```
GO
```

```
/***** Object: Table [dbo].[supervisor] Script Date: 7/17/2022
3:06:06 PM *****/
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[supervisor] (
```

```
    [CLid] [nchar](10) NOT NULL,
```

```
    [LiD] [varchar](50) NOT NULL,
```

```
    PRIMARY KEY CLUSTERED
```

```
(
```

```
    [CLid] ASC,
```

```
    [LiD] ASC
```

```
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON, OPTIMIZE_FOR_SEQUENTIAL_KEY = OFF) ON [PRIMARY]
```

```
) ON [PRIMARY]
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CEA201', N'CEAAS1')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CEA201', N'CEAAS2')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CEA201', N'CEAFE')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CEA201', N'CEAPT1')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CEA201', N'CEAPT2')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'csd201', N'CSDFE')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'csd201', N'CSDLAB1')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'csd201', N'CSDLAB2')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'csd201', N'CSDPE')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'csd201', N'CSDPT')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CSI104', N'CSIAS1')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CSI104', N'CSIAS2')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CSI104', N'CSIFE')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CSI104', N'CSILAB1')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CSI104', N'CSILAB2')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CSI104', N'CSIPT1')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'CSI104', N'CSIPT2')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'dbi202', N'DBIAS')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'dbi202', N'DBIFE')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'dbi202', N'DBILAB1')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'dbi202', N'DBILAB2')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'dbi202', N'DBIPT')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'iao202', N'IAOAS')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'iao202', N'IAOFE')
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'iao202', N'IAOLAB1')
```

GO



```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'iao202', N'IAOLAB2')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'iao202', N'IAOPT1')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'iao202', N'IAOPT2')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'jpd113', N'JPDAS1')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'jpd113', N'JPDAS2')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'jpd113', N'JPDFE')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'jpd113', N'JPDLAB1')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'jpd113', N'JPDLAB2')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'jpd113', N'JPDPT1')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'jpd113', N'JPDPT2')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'lab211', N'LABLOC')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAD101', N'MADAS1')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAD101', N'MADAS2')
GO
```

GO

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAD101', N'MADFE  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAD101', N'MADLAB1  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAD101', N'MADLAB2  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAD101', N'MADPT1  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAD101', N'MADPT2  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAE101', N'MAEAS1  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAE101', N'MAEAS2  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAE101', N'MAEFE  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAE101', N'MAELAB1  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAE101', N'MAELAB2  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAE101', N'MAEPT1  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'MAE101', N'MAEPT2  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'NWC204', N'NWCAS  
'')
```

```
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'NWC204', N'NWCFE')
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'NWC204', N'NWCLAB1')
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'NWC204', N'NWCLAB2')
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'NWC204', N'NWCPT1')
GO
```

```
INSERT [dbo].[Assessment] ([CiD], [Aid]) VALUES (N'NWC204', N'NWCPT2')
GO
```

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No question], [LO], [duration], [question type], [Knowledge and skill], [greasing guide], [weight], [note]) VALUES (N'CEAAS1', N'AS1', N'', N'', 20, N'', N'30 mins', N'', N'', N'', 0.1, N'')
GO
```

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No question], [LO], [duration], [question type], [Knowledge and skill], [greasing guide], [weight], [note]) VALUES (N'CEAAS2', N'AS2', N'', N'', 20, N'', N'30 mins', N'', N'', N'', 0.1, N'')
GO
```

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No question], [LO], [duration], [question type], [Knowledge and skill], [greasing guide], [weight], [note]) VALUES (N'CEAFE', N'FE', N'', N'', 50, N'', N'90 mins', N'', N'', N'', 0.4, N'')
GO
```

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No question], [LO], [duration], [question type], [Knowledge and skill], [greasing guide], [weight], [note]) VALUES (N'CEAPT1', N'PT1', N'', N'', 30, N'', N'60 mins', N'', N'', N'', 0.2, N'')
GO
```

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No question], [LO], [duration], [question type], [Knowledge and skill], [greasing guide], [weight], [note]) VALUES (N'CEAPT2', N'PT2', N'', N'', 30, N'', N'60 mins', N'', N'', N'', 0.2, N'')
GO
```

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No question], [LO], [duration], [question type], [Knowledge and skill], [greasing guide], [weight], [note]) VALUES (N'CSDFE', N'FE', NULL, NULL, 50, NULL, N'90 mins', NULL, NULL, NULL, 0.4, NULL)
GO
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSDLAB1      ', N'LAB1',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSDLAB2      ', N'LAB2',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSDPE        ', N'PE',  
NULL, NULL, 15, NULL, N'90 mins', NULL, NULL, NULL, 0.3, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSDPT        ', N'PT',  
NULL, NULL, 35, NULL, N'60 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSIAS1       ', N'AS1',  
NULL, NULL, 20, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSIAS2       ', N'AS2',  
NULL, NULL, 20, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSIFE        ', N'FE',  
NULL, NULL, 60, NULL, N'90 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSILAB1      ', N'LAB1',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSILAB2      ', N'LAB2',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSIPT1      ', N'PT1',  
NULL, NULL, 30, NULL, N'60 mins', NULL, NULL, NULL, 0.15, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'CSIPT2      ', N'PT2',  
NULL, NULL, 30, NULL, N'60 mins', NULL, NULL, NULL, 0.15, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'DBIAS      ', N'AS',  
NULL, NULL, 10, NULL, N'28 Slots', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'DBIFE      ', N'FE',  
NULL, NULL, 60, NULL, N'90 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'DBILAB1    ', N'LAB1',  
NULL, NULL, 20, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'DBILAB2    ', N'LAB2',  
NULL, NULL, 20, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'DBIPT      ', N'PT',  
NULL, NULL, 40, NULL, N'60 mins', NULL, NULL, NULL, 0.3, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'IAOAS      ', N'AS',  
NULL, NULL, 30, NULL, N'45 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'IAOFE      ', N'FE',  
NULL, NULL, 60, NULL, N'90 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'IAOLAB1      ', N'LAB1',  
NULL, NULL, 15, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'IAOLAB2      ', N'LAB2',  
NULL, NULL, 15, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'IAOPT1       ', N'PT1',  
NULL, NULL, 40, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'IAOPT2       ', N'PT2',  
NULL, NULL, 40, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'JPDAS1       ', N'AS1',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'JPDAS2       ', N'AS2',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'JPDFE        ', N'FE',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'JPDLAB1      ', N'LAB1',  
NULL, NULL, 15, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'JPDLAB2      ', N'LAB2',  
NULL, NULL, 15, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'JPDPT1      ', N'PT1',  
NULL, NULL, 30, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'JPDPT2      ', N'PT2',  
NULL, NULL, 30, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'LABLOC      ', N'LOC',  
NULL, NULL, 75, NULL, N'30 Slots', NULL, NULL, NULL, 1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MADAS1      ', N'AS1',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MADAS2      ', N'AS2',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MADFE       ', N'FE',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MADLAB1     ', N'LAB1',  
NULL, NULL, 15, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MADLAB2     ', N'LAB2',  
NULL, NULL, 15, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MADPT1      ', N'PT1',  
NULL, NULL, 30, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MADPT2      ', N'PT2',  
NULL, NULL, 30, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MAEAS1      ', N'AS1',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MAEAS2      ', N'AS2',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MAEFE      ', N'FE',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MAELAB1     ', N'LAB1',  
NULL, NULL, 15, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MAELAB2     ', N'LAB2',  
NULL, NULL, 15, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MAEPT1      ', N'PT1',  
NULL, NULL, 30, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'MAEPT2      ', N'PT2',  
NULL, NULL, 30, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'NWCAS      ', N'AS',  
NULL, NULL, 30, NULL, N'45 mins', NULL, NULL, NULL, 0.1, NULL)
```



GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greasing guide], [weight], [note]) VALUES (N'NWCFE      ', N'FE',  
NULL, NULL, 60, NULL, N'90 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greasing guide], [weight], [note]) VALUES (N'NWCLAB1    ', N'LAB1',  
NULL, NULL, 15, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greasing guide], [weight], [note]) VALUES (N'NWCLAB2    ', N'LAB2',  
NULL, NULL, 15, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greasing guide], [weight], [note]) VALUES (N'NWCPT1     ', N'PT1',  
NULL, NULL, 40, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greasing guide], [weight], [note]) VALUES (N'NWCPT2     ', N'PT2',  
NULL, NULL, 40, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greasing guide], [weight], [note]) VALUES (N'OSGAS      ', N'AS',  
NULL, NULL, 25, NULL, N'30 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greasing guide], [weight], [note]) VALUES (N'OSGFE      ', N'FE',  
NULL, NULL, 50, NULL, N'90 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greasing guide], [weight], [note]) VALUES (N'OSGLAB1    ', N'LAB1',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greasing guide], [weight], [note]) VALUES (N'OSGLAB2    ', N'LAB2',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'OSGPE      ', N'PE',  
NULL, NULL, 15, NULL, N'90 mins', NULL, NULL, NULL, 0.3, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'OSGPT      ', N'PT',  
NULL, NULL, 35, NULL, N'60 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PRFAS      ', N'AS',  
NULL, NULL, 25, NULL, N'30 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PRFFE      ', N'FE',  
NULL, NULL, 50, NULL, N'90 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PRFLAB1    ', N'LAB1',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PRFLAB2    ', N'LAB2',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PRFPE      ', N'PE',  
NULL, NULL, 15, NULL, N'90 mins', NULL, NULL, NULL, 0.3, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PRFPT      ', N'PT',  
NULL, NULL, 35, NULL, N'60 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PROAS      ', N'AS',  
NULL, NULL, 25, NULL, N'30 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PROFE      ', N'FE',  
NULL, NULL, 50, NULL, N'90 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PROLAB1    ', N'LAB1',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PROLAB2    ', N'LAB2',  
NULL, NULL, 10, NULL, N'30 mins', NULL, NULL, NULL, 0.05, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PROPE      ', N'PE',  
NULL, NULL, 15, NULL, N'90 mins', NULL, NULL, NULL, 0.3, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'PROPT      ', N'PT',  
NULL, NULL, 35, NULL, N'60 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'SSGAS1     ', N'AS1',  
NULL, NULL, 20, NULL, N'30 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'SSGAS2     ', N'AS2',  
NULL, NULL, 20, NULL, N'30 mins', NULL, NULL, NULL, 0.1, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'SSGFE      ', N'FE',  
NULL, NULL, 50, NULL, N'90 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'SSGPT1     ', N'PT1',  
NULL, NULL, 30, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'SSGPT2', N'PT2',  
NULL, NULL, 30, NULL, N'60 mins', NULL, NULL, NULL, 0.2, NULL)
```

GO

```
INSERT [dbo].[Assessment system] ([Aid], [CaID], [type], [part], [No  
question], [LO], [duration], [question type], [Knowledge and skill],  
[greading guide], [weight], [note]) VALUES (N'SSLFE', N'FE',  
NULL, NULL, 50, NULL, N'90 mins', NULL, NULL, NULL, 0.4, NULL)
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'AS', N'Assignment', N'On-Going', N'>0')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'AS1', N'Assignment 1', N'On-Going', N'>0')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'AS2', N'Assignment 2', N'On-Going', N'>0')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'FE', N'Final Exam', N'Final Exam', N'>4')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'FER', N'Final Exam Retake', N'Final Exam',  
N'>4')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'LAB', N'Lab', N'On-Going', N'>0')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'LAB1', N'Lab 1', N'On-Going', N'>0')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'LAB2', N'Lab 2', N'On-Going', N'>0')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'LOC', N'Line of Code', N'On-Going', N'>=750')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'PE', N'Practical Exam', N'On-Going', N'>0')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'PT', N'Progress Test', N'On-Going', N'>0')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'PT1', N'Progress Test 1', N'On-Going', N'>0')
```

GO

```
INSERT [dbo].[Categories] ([CaID], [category], [type], [Completion  
Criteria]) VALUES (N'PT2', N'Progress Test 2', N'On-Going', N'>0')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21APRO  
, N'PRO192', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21BIAO  
, N'iao202', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21BNWC  
, N'NWC204', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21CLAB  
, N'lab211', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21DDBI  
, N'dbi202', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21ECSD  
, N'csd201', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21FJPD  
, N'jpd113', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21GSSG  
, N'SSG104', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21HOSG  
, N'OSG202', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21HPRF  
, N'PRF192', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21ICSI', N'CSI104', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21IMAE', N'MAE101', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21ISSL', N'SSL101c', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21JMAD', N'MAD101', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'FA21KCEA', N'CEA201', N'FALL 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22ACSD', N'csd201', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22ADBI', N'dbi202', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22APRO', N'PRO192', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22BCSD', N'csd201', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22BIAO', N'iao202', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22BNWC', N'NWC204', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22CLAB', N'lab211', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22DDBI', N'dbi202', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22DLAB', N'lab211', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22ECSD', N'csd201', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22FJPD', N'jpd113', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22FSSG', N'SSG104', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22GJPD', N'jpd113', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22GSSG', N'SSG104', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22HCEA', N'CEA201', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22HOSG', N'OSG202', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22HPRF', N'PRF192', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22IMAE', N'MAE101', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22ISSL', N'SSL101c', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22JCEA', N'CEA201', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22JMAE', N'MAD101', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SP22KCSI', N'CSI104', N'SPRING 2022')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21ACSD', N'csd201', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21ADBI', N'dbi202', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21APRO', N'PRO192', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21BIAO', N'iao202', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21BNWC', N'NWC204', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21CLAB', N'lab211', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21FJPD', N'jpd113', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21FSSG', N'SSG104', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21HOSG', N'OSG202', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21HPRF', N'PRF192', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21IMAE', N'MAE101', N'SUMMER 2021')
```

GO

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21ISSL', N'SSL101c', N'SUMMER 2021')
```

GO



```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21JCEA', N'CEA201', N'SUMMER 2021')
```

```
GO
```

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21JMAD', N'MAD101', N'SUMMER 2021')
```

```
GO
```

```
INSERT [dbo].[class] ([CLid], [CiD], [semester]) VALUES (N'SU21KCSI', N'CSI104', N'SUMMER 2021')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'CEA201', N'Computer Organization and Architecture')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'csd201', N'Data Structures and Algorithms')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'CSI104', N'Introduction to Computer Science')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'dbi202', N'Introduction to Databases')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'iao202', N'Introduction to Information Assurance')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'jpd113', N'Elementary Japanese 1-A1.1')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'lab211', N'OOP with Java Lab')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'MAD101', N'Discrete mathematics')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'MAE101', N'Mathematics for Engineering')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'NWC204', N'Computer Networking')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'OSG202',  
N'Operating Systems')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'PRF192',  
N'Programming Fundamentals')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'PRO192',  
N'Object-Oriented Programming')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'SSG104',  
N'Communication and In-Group Working Skills')
```

```
GO
```

```
INSERT [dbo].[course] ([CiD], [CourseName]) VALUES (N'SSL101c',  
N'Academic Skills for University Success')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'FA21APRO'  
)
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IOT1607', N'FA21BIAO'  
)
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'FA21BNWC'  
)
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IOT1607', N'FA21CLAB'  
)
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IOT1607', N'FA21DDBI'  
)
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IOT1607', N'FA21ECSD'  
)
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IOT1607', N'FA21FJPD'  
)
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'FA21HOSG'  
)
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1608', N'FA21HPRE')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1608', N'FA21ICSI')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1608', N'FA21IMAE')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1608', N'FA21ISSI')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'FA21JMAD')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1608', N'FA21KCEA')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'SP22ADBI')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1608', N'SP22APRO')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'SP22BCSD')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'SP22BIAO')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1608', N'SP22BNWC')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'SP22CLAB')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'SP22FJPD')

```

```
GO

```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1608', N'SP22GSSG')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1608', N'SP22HOSG')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'AI1605', N'SP22HPRF')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'AI1605', N'SP22IMAE')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'AI1605', N'SP22ISSL')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'AI1605', N'SP22JCEA')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1608', N'SP22JMAD')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'AI1605', N'SP22KCSI')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'SU21HPRF')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'SU21IMAE')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'SU21ISSL')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'SU21JCEA')
```

```
GO
```

```
INSERT [dbo].[enroll] ([GiD], [CLid]) VALUES (N'IA1604', N'SU21KCSI')
```

```
GO
```

```
INSERT [dbo].[group] ([GiD], [GroupName], [number of student]) VALUES  
(N'AI1605', N'Artificial Intelligence', N'15')
```

```
GO
```

```
INSERT [dbo].[group] ([GiD], [GroupName], [number of student]) VALUES  
(N'IA1604', N'Information Assurance', N'15')
```

```
GO
```

```
INSERT [dbo].[group] ([GiD], [GroupName], [number of student]) VALUES  
(N'IA1608', N'Information Assurance', N'10')
```

```
GO
```

```
INSERT [dbo].[group] ([GiD], [GroupName], [number of student]) VALUES  
(N'IOT1607', N'Internet of Things', N'15')
```

```
GO
```

```
INSERT [dbo].[group] ([GiD], [GroupName], [number of student]) VALUES  
(N'SE1606', N'Software Engineering', N'20')
```

```
GO
```

```
INSERT [dbo].[group] ([GiD], [GroupName], [number of student]) VALUES  
(N'SE1609', N'Software Engineering', N'20')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00001', N'FA21APRO  
)
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00002', N'FA21BIAO  
)
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00003', N'FA21BNWC  
)
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00004', N'FA21CLAB  
)
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00005', N'FA21DDBI  
)
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00006', N'FA21ECSD  
)
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00007', N'FA21FJPD  
)
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00008', N'FA21GSSG')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00009', N'FA21HOSG')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00010', N'FA21HPRF')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00011', N'FA21ICSI')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00012', N'FA21IMAE')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00013', N'FA21ISSL')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00014', N'FA21JMAD')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00015', N'FA21KCEA')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00016', N'SP22ACSD')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00017', N'SP22ADBI')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00018', N'SP22APRO')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00019', N'SP22BCSD')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00020', N'SP22BIAO')

```

```
GO

```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00021', N'SP22BNWC')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00022', N'SP22CLAB')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00023', N'SP22DDBI')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00024', N'SP22DLAB')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00025', N'SP22ECSD')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00026', N'SP22FJPD')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00027', N'SP22FSSG')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00028', N'SP22GJPD')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00029', N'SP22GSSG')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00030', N'SP22HCEA')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00031', N'SP22HOSG')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00032', N'SP22HPRF')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00033', N'SP22IMAE')
```

```
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00034', N'SP22ISSL')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00035', N'SP22JCEA')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00036', N'SP22JMAD')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00037', N'SP22KCSI')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00038', N'SU21ACSD')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00039', N'SU21ADBI')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00040', N'SU21APRO')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00041', N'SU21BIAO')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00042', N'SU21BNWC')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00043', N'SU21CLAB')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00044', N'SU21FJPD')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00045', N'SU21FSSG')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00046', N'SU21HOSG')
GO
```



```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00047', N'SU21HPRE')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00048', N'SU21IMAE')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00049', N'SU21ISSI')
GO
```

```
INSERT [dbo].[join] ([SiD], [CLid]) VALUES (N'HE00050', N'SU21JCEA')
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender], [dob]) VALUES (N'GVA', N'A', N'gva@fe.edu.vn', 1, CAST(N'1985-01-01' AS Date))
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender], [dob]) VALUES (N'GVB', N'B', N'gvb@fe.edu.vn', 0, CAST(N'1985-01-02' AS Date))
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender], [dob]) VALUES (N'GVC', N'C', N'gvc@fe.edu.vn', 1, CAST(N'1985-01-03' AS Date))
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender], [dob]) VALUES (N'GVD', N'D', N'gvd@fe.edu.vn', 0, CAST(N'1985-01-04' AS Date))
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender], [dob]) VALUES (N'GVE', N'E', N'gve@fe.edu.vn', 1, CAST(N'1985-01-05' AS Date))
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender], [dob]) VALUES (N'GVF', N'F', N'gvf@fe.edu.vn', 0, CAST(N'1985-01-06' AS Date))
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender], [dob]) VALUES (N'GVG', N'G', N'gvg@fe.edu.vn', 1, CAST(N'1985-01-07' AS Date))
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender],  
[dob]) VALUES (N'GVH', N'H', N'gvh@fe.edu.vn', 0, CAST(N'1985-01-08'  
AS Date))
```

```
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender],  
[dob]) VALUES (N'GVI', N'I', N'gvi@fe.edu.vn', 1, CAST(N'1985-01-09'  
AS Date))
```

```
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender],  
[dob]) VALUES (N'GVJ', N'J', N'gvj@fe.edu.vn', 0, CAST(N'1985-01-10'  
AS Date))
```

```
GO
```

```
INSERT [dbo].[Lecturer] ([LiD], [LecturerName], [mail], [gender],  
[dob]) VALUES (N'GVK', N'K', N'gvk@fe.edu.vn', 1, CAST(N'1985-01-11'  
AS Date))
```

```
GO
```

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'CSDFE', CAST(N'2022-04-01' AS Date), 8)
```

```
GO
```

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'CSDFE', CAST(N'2022-04-01' AS Date), 4.5)
```

```
GO
```

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00003', N'CSDFE', CAST(N'2022-04-01' AS Date), 7.5)
```

```
GO
```

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'CSDLAB1', CAST(N'2022-04-01' AS Date), 7.5)
```

```
GO
```

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'CSDLAB1', CAST(N'2022-04-01' AS Date), 3.3)
```

```
GO
```

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00003', N'CSDLAB1', CAST(N'2022-04-01' AS Date), 7.3)
```

```
GO
```

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'CSDLAB2', CAST(N'2022-04-01' AS Date), 6)
```

```
GO
```

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'CSDLAB2', CAST(N'2022-04-01' AS Date), 2.6)
```

```
GO
```

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'CSDLAB2      ', CAST(N'2022-04-01' AS Date), 8.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'CSDPE        ', CAST(N'2022-04-01' AS Date), 8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'CSDPE        ', CAST(N'2022-04-01' AS Date), 3.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'CSDPE        ', CAST(N'2022-04-01' AS Date), 9.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'CSDPT        ', CAST(N'2022-04-01' AS Date), 8.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'CSDPT        ', CAST(N'2022-04-01' AS Date), 4.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'CSDPT        ', CAST(N'2022-04-01' AS Date), 9.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'CSIAS1       ', CAST(N'2021-08-01' AS Date), 7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'CSIAS1       ', CAST(N'2021-08-01' AS Date), 7.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'CSIAS1       ', CAST(N'2021-08-01' AS Date), 8.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'CSIAS2       ', CAST(N'2021-08-01' AS Date), 9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'CSIAS2       ', CAST(N'2021-08-01' AS Date), 6.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'CSIAS2       ', CAST(N'2021-08-01' AS Date), 9.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'CSIFE      ', CAST(N'2021-08-01' AS Date), 10)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'CSIFE      ', CAST(N'2021-08-01' AS Date), 7.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'CSIFE      ', CAST(N'2021-08-01' AS Date), 8.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'CSILAB1    ', CAST(N'2021-08-01' AS Date), 10)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'CSILAB1    ', CAST(N'2021-08-01' AS Date), 5.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'CSILAB1    ', CAST(N'2021-08-01' AS Date), 7.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'CSILAB2    ', CAST(N'2021-08-01' AS Date), 0.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'CSILAB2    ', CAST(N'2021-08-01' AS Date), 8.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'CSILAB2    ', CAST(N'2021-08-01' AS Date), 8.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'CSIPT1     ', CAST(N'2021-08-01' AS Date), 8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'CSIPT1     ', CAST(N'2021-08-01' AS Date), 9.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'CSIPT1     ', CAST(N'2021-08-01' AS Date), 9.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'CSIPT2     ', CAST(N'2021-08-01' AS Date), 9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'CSIPT2      ', CAST(N'2021-08-01' AS Date), 7.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'CSIPT2      ', CAST(N'2021-08-01' AS Date), 7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'DBIAS      ', CAST(N'2022-04-01' AS Date), 9.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'DBIAS      ', CAST(N'2022-04-01' AS Date), 5.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'DBIAS      ', CAST(N'2022-04-01' AS Date), 8.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'DBIFE      ', CAST(N'2022-04-01' AS Date), 10)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'DBIFE      ', CAST(N'2022-04-01' AS Date), 2.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'DBIFE      ', CAST(N'2022-04-01' AS Date), 8.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'DBILAB1    ', CAST(N'2022-04-01' AS Date), 9.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'DBILAB1    ', CAST(N'2022-04-01' AS Date), 5.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'DBILAB1    ', CAST(N'2022-04-01' AS Date), 8.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'DBILAB2    ', CAST(N'2022-04-01' AS Date), 7.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'DBILAB2    ', CAST(N'2022-04-01' AS Date), 2.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'DBILAB2      ', CAST(N'2022-04-01' AS Date), 9.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'DBIPT      ', CAST(N'2022-04-01' AS Date), 8.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'DBIPT      ', CAST(N'2022-04-01' AS Date), 4.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'DBIPT      ', CAST(N'2022-04-01' AS Date), 8.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'IAOAS      ', CAST(N'2022-04-01' AS Date), 9.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'IAOAS      ', CAST(N'2022-04-01' AS Date), 1.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'IAOAS      ', CAST(N'2022-04-01' AS Date), 8.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'IAOFE      ', CAST(N'2022-04-01' AS Date), 5.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'IAOFE      ', CAST(N'2022-04-01' AS Date), 3.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'IAOFE      ', CAST(N'2022-04-01' AS Date), 9.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'IAOLAB1     ', CAST(N'2022-04-01' AS Date), 8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'IAOLAB1     ', CAST(N'2022-04-01' AS Date), 4.1)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'IAOLAB1     ', CAST(N'2022-04-01' AS Date), 9.1)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'IAOLAB2      ', CAST(N'2022-04-01' AS Date), 9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'IAOLAB2      ', CAST(N'2022-04-01' AS Date), 8.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'IAOLAB2      ', CAST(N'2022-04-01' AS Date), 8.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'IAOPT1       ', CAST(N'2022-04-01' AS Date), 7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'IAOPT1       ', CAST(N'2022-04-01' AS Date), 2.9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'IAOPT1       ', CAST(N'2022-04-01' AS Date), 9.9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'IAOPT2       ', CAST(N'2022-04-01' AS Date), 6.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'IAOPT2       ', CAST(N'2022-04-01' AS Date), 1.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'IAOPT2       ', CAST(N'2022-04-01' AS Date), 9.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'JPDAS1       ', CAST(N'2022-04-01' AS Date), 8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'JPDAS1       ', CAST(N'2022-04-01' AS Date), 2.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'JPDAS1       ', CAST(N'2022-04-01' AS Date), 8.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'JPDAS2       ', CAST(N'2022-04-01' AS Date), 9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'JPDAS2      ', CAST(N'2022-04-01' AS Date), 4.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'JPDAS2      ', CAST(N'2022-04-01' AS Date), 8.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'JPDFE       ', CAST(N'2022-04-01' AS Date), 10)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'JPDFE       ', CAST(N'2022-04-01' AS Date), 5.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'JPDFE       ', CAST(N'2022-04-01' AS Date), 7.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'JPDLAB1     ', CAST(N'2022-04-01' AS Date), 8.9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'JPDLAB1     ', CAST(N'2022-04-01' AS Date), 3.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'JPDLAB1     ', CAST(N'2022-04-01' AS Date), 7.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'JPDLAB2     ', CAST(N'2022-04-01' AS Date), 9.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'JPDLAB2     ', CAST(N'2022-04-01' AS Date), 5.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'JPDLAB2     ', CAST(N'2022-04-01' AS Date), 9.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'JPDPT1      ', CAST(N'2022-04-01' AS Date), 9.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'JPDPT1      ', CAST(N'2022-04-01' AS Date), 2.3)
```

GO



```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'JPDPT1      ', CAST(N'2022-04-01' AS Date), 8.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'JPDPT2      ', CAST(N'2022-04-01' AS Date), 8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'JPDPT2      ', CAST(N'2022-04-01' AS Date), 5.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'JPDPT2      ', CAST(N'2022-04-01' AS Date), 7.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'LABLOC      ', CAST(N'2022-04-01' AS Date), 750)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'LABLOC      ', CAST(N'2022-04-01' AS Date), 120)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'LABLOC      ', CAST(N'2022-04-01' AS Date), 900)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MADAS1      ', CAST(N'2021-12-01' AS Date), 7.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MADAS1      ', CAST(N'2021-12-01' AS Date), 6.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MADAS1      ', CAST(N'2021-12-01' AS Date), 5.1)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MADAS2      ', CAST(N'2021-12-01' AS Date), 8.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MADAS2      ', CAST(N'2021-12-01' AS Date), 7.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MADAS2      ', CAST(N'2021-12-01' AS Date), 7.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MADFE      ', CAST(N'2021-12-01' AS Date), 9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MADFE      ', CAST(N'2021-12-01' AS Date), 6.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MADFE      ', CAST(N'2021-12-01' AS Date), 7.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MADLAB1    ', CAST(N'2021-12-01' AS Date), 9.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MADLAB1    ', CAST(N'2021-12-01' AS Date), 8.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MADLAB1    ', CAST(N'2021-12-01' AS Date), 6.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MADLAB2    ', CAST(N'2021-12-01' AS Date), 5.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MADLAB2    ', CAST(N'2021-12-01' AS Date), 7.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MADLAB2    ', CAST(N'2021-12-01' AS Date), 5.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MADPT1     ', CAST(N'2021-12-01' AS Date), 7.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MADPT1     ', CAST(N'2021-12-01' AS Date), 6.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MADPT1     ', CAST(N'2021-12-01' AS Date), 3.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MADPT2     ', CAST(N'2021-12-01' AS Date), 9.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MADPT2      ', CAST(N'2021-12-01' AS Date), 7.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MADPT2      ', CAST(N'2021-12-01' AS Date), 3.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MAEAS1      ', CAST(N'2021-08-01' AS Date), 10)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MAEAS1      ', CAST(N'2021-08-01' AS Date), 5.9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MAEAS1      ', CAST(N'2021-08-01' AS Date), 9.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MAEAS2      ', CAST(N'2021-08-01' AS Date), 6.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MAEAS2      ', CAST(N'2021-08-01' AS Date), 6.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MAEAS2      ', CAST(N'2021-08-01' AS Date), 9.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MAEFE      ', CAST(N'2021-08-01' AS Date), 2.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MAEFE      ', CAST(N'2021-08-01' AS Date), 7.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MAEFE      ', CAST(N'2021-08-01' AS Date), 9.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MAELAB1     ', CAST(N'2021-08-01' AS Date), 7.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MAELAB1     ', CAST(N'2021-08-01' AS Date), 6.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00003', N'MAELAB1      ', CAST(N'2021-08-01' AS Date), 9.1)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MAELAB2      ', CAST(N'2021-08-01' AS Date), 7.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MAELAB2      ', CAST(N'2021-08-01' AS Date), 7.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MAEPT1       ', CAST(N'2021-08-01' AS Date), 9.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MAEPT1       ', CAST(N'2021-08-01' AS Date), 6.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'MAEPT2       ', CAST(N'2021-08-01' AS Date), 5.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'MAEPT2       ', CAST(N'2021-08-01' AS Date), 9.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'NWCAS        ', CAST(N'2021-12-01' AS Date), 10)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'NWCAS        ', CAST(N'2021-12-01' AS Date), 8.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'NWCFE        ', CAST(N'2021-12-01' AS Date), 9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'NWCFE        ', CAST(N'2021-12-01' AS Date), 6.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'NWCLAB1      ', CAST(N'2021-12-01' AS Date), 8.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'NWCLAB1      ', CAST(N'2021-12-01' AS Date), 7.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'NWCLAB2      ', CAST(N'2021-12-01' AS Date), 7.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'NWCLAB2      ', CAST(N'2021-12-01' AS Date), 9.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'NWCPT1       ', CAST(N'2021-12-01' AS Date), 8.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'NWCPT1       ', CAST(N'2021-12-01' AS Date), 8.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'NWCPT2       ', CAST(N'2021-12-01' AS Date), 7.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'NWCPT2       ', CAST(N'2021-12-01' AS Date), 6.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'OSGAS        ', CAST(N'2021-12-01' AS Date), 9.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'OSGAS        ', CAST(N'2021-12-01' AS Date), 7.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'OSGFE        ', CAST(N'2021-12-01' AS Date), 7.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'OSGFE        ', CAST(N'2021-12-01' AS Date), 8.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'OSGLAB1      ', CAST(N'2021-12-01' AS Date), 8.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'OSGLAB1      ', CAST(N'2021-12-01' AS Date), 6.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'OSGLAB2      ', CAST(N'2021-12-01' AS Date), 6.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'OSGLAB2      ', CAST(N'2021-12-01' AS Date), 7.9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'OSGPE        ', CAST(N'2021-12-01' AS Date), 7.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'OSGPE        ', CAST(N'2021-12-01' AS Date), 6.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'OSGPT        ', CAST(N'2021-12-01' AS Date), 8.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'OSGPT        ', CAST(N'2021-12-01' AS Date), 9.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'PRFAS        ', CAST(N'2021-08-01' AS Date), 3.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'PRFAS        ', CAST(N'2021-08-01' AS Date), 9.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'PRFFE        ', CAST(N'2021-08-01' AS Date), 8.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'PRFFE        ', CAST(N'2021-08-01' AS Date), 6.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'PRFLAB1      ', CAST(N'2021-08-01' AS Date), 4.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'PRFLAB1      ', CAST(N'2021-08-01' AS Date), 5.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'PRFLAB2      ', CAST(N'2021-08-01' AS Date), 7.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'PRFLAB2      ', CAST(N'2021-08-01' AS Date), 8.2)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'PRFPE      ', CAST(N'2021-08-01' AS Date), 8.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'PRFPE      ', CAST(N'2021-08-01' AS Date), 7.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'PRFPT      ', CAST(N'2021-08-01' AS Date), 8.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'PRFPT      ', CAST(N'2021-08-01' AS Date), 5.3)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'PROAS      ', CAST(N'2021-12-01' AS Date), 10)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'PROAS      ', CAST(N'2021-12-01' AS Date), 8.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'PROFE      ', CAST(N'2021-12-01' AS Date), 9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'PROFE      ', CAST(N'2021-12-01' AS Date), 8.8)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'PROLAB1    ', CAST(N'2021-12-01' AS Date), 9.4)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'PROLAB1    ', CAST(N'2021-12-01' AS Date), 6.7)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'PROLAB2    ', CAST(N'2021-12-01' AS Date), 7.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00002', N'PROLAB2    ', CAST(N'2021-12-01' AS Date), 8.6)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES
(N'HE00001', N'PROPE      ', CAST(N'2021-12-01' AS Date), 8.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'PROPE      ', CAST(N'2021-12-01' AS Date), 7.9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'PROPT      ', CAST(N'2021-12-01' AS Date), 6.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'PROPT      ', CAST(N'2021-12-01' AS Date), 8.5)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00001', N'SSLFE      ', CAST(N'2021-08-01' AS Date), 8.9)
```

GO

```
INSERT [dbo].[result ] ([Sid], [Aid], [date], [Score]) VALUES  
(N'HE00002', N'SSLFE      ', CAST(N'2021-08-01' AS Date), 9.6)
```

GO

```
INSERT [dbo].[semester] ([semester], [start date], [end date]) VALUES  
(N'FALL 2021', CAST(N'2021-09-01' AS Date), CAST(N'2021-12-01' AS  
Date))
```

GO

```
INSERT [dbo].[semester] ([semester], [start date], [end date]) VALUES  
(N'SPRING 2022', CAST(N'2022-01-01' AS Date), CAST(N'2022-04-01' AS  
Date))
```

GO

```
INSERT [dbo].[semester] ([semester], [start date], [end date]) VALUES  
(N'SUMMER 2021', CAST(N'2021-05-01' AS Date), CAST(N'2021-08-01' AS  
Date))
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00001', N'Nguyen Van', N'A',  
CAST(N'2002-01-01' AS Date), 1, N'hanoi', N'anv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00002', N'Nguyen Van', N'B',  
CAST(N'2002-01-02' AS Date), 1, N'hanoi', N'bnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00003', N'Nguyen Van', N'C',  
CAST(N'2002-01-13' AS Date), 1, N'hanoi', N'cnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00004', N'Nguyen Van', N'D',  
CAST(N'2002-01-04' AS Date), 1, N'hanoi', N'dnv@fpt.edu.vn')
```



GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00005', N'Nguyen Van', N'E',  
CAST(N'2002-01-05' AS Date), 1, N'hanoi', N'env@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00006', N'Nguyen Van', N'F',  
CAST(N'2002-01-06' AS Date), 1, N'hanoi', N'fnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00007', N'Nguyen Van', N'G',  
CAST(N'2002-01-07' AS Date), 1, N'hanoi', N'gnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00008', N'Nguyen Van', N'H',  
CAST(N'2002-01-08' AS Date), 1, N'hanoi', N'hnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00009', N'Nguyen Van', N'I',  
CAST(N'2002-01-09' AS Date), 1, N'hanoi', N'inv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00010', N'Nguyen Van', N'J',  
CAST(N'2002-01-10' AS Date), 1, N'hanoi', N'jnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00011', N'Nguyen Van', N'K',  
CAST(N'2002-01-11' AS Date), 1, N'hanoi', N'knv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00012', N'Nguyen Van', N'L',  
CAST(N'2002-01-12' AS Date), 1, N'hanoi', N'lnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00013', N'Nguyen Van', N'M',  
CAST(N'2002-01-13' AS Date), 1, N'hanoi', N'mnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00014', N'Nguyen Van', N'N',  
CAST(N'2002-01-14' AS Date), 1, N'hanoi', N'nnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00015', N'Nguyen Van', N'O',  
CAST(N'2002-01-15' AS Date), 1, N'hanoi', N'mnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00016', N'Nguyen Van', N'P',  
CAST(N'2002-01-16' AS Date), 1, N'hanoi', N'pnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00017', N'Nguyen Van', N'Q',  
CAST(N'2002-01-17' AS Date), 1, N'hanoi', N'qnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00018', N'Nguyen Van', N'R',  
CAST(N'2002-01-18' AS Date), 1, N'hanoi', N'rnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00019', N'Nguyen Van', N'S',  
CAST(N'2002-01-19' AS Date), 1, N'hanoi', N'snv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00020', N'Nguyen Van', N'T',  
CAST(N'2002-01-20' AS Date), 1, N'hanoi', N'tnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00021', N'Nguyen Van', N'U',  
CAST(N'2002-01-21' AS Date), 1, N'hanoi', N'unv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00022', N'Nguyen Van', N'V',  
CAST(N'2002-01-22' AS Date), 1, N'hanoi', N'vnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00023', N'Nguyen Van', N'W',  
CAST(N'2002-01-23' AS Date), 1, N'hanoi', N'wnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00024', N'Nguyen Van', N'X',  
CAST(N'2002-01-24' AS Date), 1, N'hanoi', N'xnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00025', N'Nguyen Van', N'Y',  
CAST(N'2002-01-25' AS Date), 1, N'hanoi', N'ynv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00026', N'Nguyen Van', N'Z',  
CAST(N'2002-01-26' AS Date), 1, N'hanoi', N'znv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00027', N'Nguyen Thi', N'A',  
CAST(N'2002-02-01' AS Date), 0, N'hanoi', N'anv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00028', N'Nguyen Thi', N'B',  
CAST(N'2002-02-02' AS Date), 0, N'hanoi', N'bnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00029', N'Nguyen Thi', N'C',  
CAST(N'2002-02-03' AS Date), 0, N'hanoi', N'cnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00030', N'Nguyen Thi', N'D',  
CAST(N'2002-02-04' AS Date), 0, N'hanoi', N'dnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00031', N'Nguyen Thi', N'E',  
CAST(N'2002-02-05' AS Date), 0, N'hanoi', N'env@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00032', N'Nguyen Thi', N'F',  
CAST(N'2002-02-06' AS Date), 0, N'hanoi', N'fnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00033', N'Nguyen Thi', N'G',  
CAST(N'2002-02-07' AS Date), 0, N'hanoi', N'gnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00034', N'Nguyen Thi', N'H',  
CAST(N'2002-02-08' AS Date), 0, N'hanoi', N'hnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00035', N'Nguyen Thi', N'I',  
CAST(N'2002-02-09' AS Date), 0, N'hanoi', N'inv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00036', N'Nguyen Thi', N'K',  
CAST(N'2002-02-11' AS Date), 0, N'hanoi', N'knv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00037', N'Nguyen Thi', N'L',  
CAST(N'2002-02-12' AS Date), 0, N'hanoi', N'lnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00038', N'Nguyen Thi', N'M',  
CAST(N'2002-02-13' AS Date), 0, N'hanoi', N'mnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00039', N'Nguyen Thi', N'N',  
CAST(N'2002-02-14' AS Date), 0, N'hanoi', N'nnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00040', N'Nguyen Thi', N'O',  
CAST(N'2002-02-15' AS Date), 0, N'hanoi', N'onv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00041', N'Nguyen Thi', N'P',  
CAST(N'2002-02-16' AS Date), 0, N'hanoi', N'pnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00042', N'Nguyen Thi', N'Q',  
CAST(N'2002-02-17' AS Date), 0, N'hanoi', N'qnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00043', N'Nguyen Thi', N'R',  
CAST(N'2002-02-18' AS Date), 0, N'hanoi', N'rnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00044', N'Nguyen Thi', N'S',  
CAST(N'2002-02-19' AS Date), 0, N'hanoi', N'snv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00045', N'Nguyen Thi', N'T',  
CAST(N'2002-02-20' AS Date), 0, N'hanoi', N'tnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],  
[gender], [address], [mail]) VALUES (N'HE00046', N'Nguyen Thi', N'U',  
CAST(N'2002-02-21' AS Date), 0, N'hanoi', N'unv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],
[gender], [address], [mail]) VALUES (N'HE00047', N'Nguyen Thi', N'V',
CAST(N'2002-02-22' AS Date), 0, N'hanoi', N'vvnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],
[gender], [address], [mail]) VALUES (N'HE00048', N'Nguyen Thi', N'W',
CAST(N'2002-02-23' AS Date), 0, N'hanoi', N'wnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],
[gender], [address], [mail]) VALUES (N'HE00049', N'Nguyen Thi', N'X',
CAST(N'2002-02-24' AS Date), 0, N'hanoi', N'xnv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[student] ([SiD], [First name], [Last Name], [DoB],
[gender], [address], [mail]) VALUES (N'HE00050', N'Nguyen Thi', N'Y',
CAST(N'2002-02-25' AS Date), 0, N'hanoi', N'ynv@fpt.edu.vn')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21APRO ',
N'GVA')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21BIAO ',
N'GVB')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21BNWC ',
N'GVC')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21CLAB ',
N'GVD')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21DDBI ',
N'GVE')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21ECSD ',
N'GVF')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21FJPD ',
N'GVG')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21GSSG ',
N'GVH')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21HOSG ',  
N'GVI')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21HPRF ',  
N'GVJ')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21ICSI ',  
N'GVK')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21IMAE ',  
N'GVA')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21ISSL ',  
N'GVB')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21JMAD ',  
N'GVC')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'FA21KCEA ',  
N'GVD')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22ACSD ',  
N'GVE')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22ADBI ',  
N'GVF')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22APRO ',  
N'GVG')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22BCSD ',  
N'GVH')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22BIAO ',  
N'GVI')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22BNWC ',  
N'GVJ')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22CLAB ',  
N'GVK')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22DDBI ',  
N'GVA')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22DLAB ',  
N'GVB')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22ECSD ',  
N'GVC')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22FJPD ',  
N'GVD')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22FSSG ',  
N'GVE')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22GJPD ',  
N'GVF')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22GSSG ',  
N'GVG')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22HCEA ',  
N'GVH')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22HOSG ',  
N'GVI')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22HPRF ',  
N'GVJ')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22IMAE ',  
N'GVK')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22ISSL ',  
N'GVA')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22JCEA ',  
N'GVB')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22JMAD ',  
N'GVC')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SP22KCSI ',  
N'GVD')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21ACSD ',  
N'GVE')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21ADBI ',  
N'GVF')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21APRO ',  
N'GVG')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21BIAO ',  
N'GVH')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21BNWC ',  
N'GVI')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21CLAB ',  
N'GVJ')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21FJPD ',  
N'GVK')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21FSSG ',  
N'GVA')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21HOSG ',  
N'GVB')
```

GO

```
INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21HPRF ',  
N'GVC')
```

GO



```

INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21IMAE ',
N'GVD')

GO

INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21ISSL ',
N'GVE')

GO

INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21JCEA ',
N'GVF')

GO

INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21JMAD ',
N'GVG')

GO

INSERT [dbo].[supervisor] ([CLid], [LiD]) VALUES (N'SU21KCSI ',
N'GVH')

GO

ALTER TABLE [dbo].[Assessment] WITH CHECK ADD CONSTRAINT
[FK_Assessment_Assessment system] FOREIGN KEY([Aid])
REFERENCES [dbo].[Assessment system] ([Aid])

GO

ALTER TABLE [dbo].[Assessment] CHECK CONSTRAINT
[FK_Assessment_Assessment system]

GO

ALTER TABLE [dbo].[Assessment] WITH CHECK ADD CONSTRAINT
[FK_Assessment_course] FOREIGN KEY([CiD])
REFERENCES [dbo].[course] ([CiD])

GO

ALTER TABLE [dbo].[Assessment] CHECK CONSTRAINT
[FK_Assessment_course]

GO

ALTER TABLE [dbo].[Assessment system] WITH CHECK ADD CONSTRAINT
[FK_Assessment system_Categories1] FOREIGN KEY([CaID])
REFERENCES [dbo].[Categories] ([CaID])

GO

ALTER TABLE [dbo].[Assessment system] CHECK CONSTRAINT [FK_Assessment
system_Categories1]

GO

ALTER TABLE [dbo].[class] WITH CHECK ADD CONSTRAINT
[FK_class_course] FOREIGN KEY([CiD])
REFERENCES [dbo].[course] ([CiD])

```

```

GO

ALTER TABLE [dbo].[class] CHECK CONSTRAINT [FK_class_course]

GO

ALTER TABLE [dbo].[class] WITH CHECK ADD CONSTRAINT
[FK_class_semester] FOREIGN KEY([semester])
REFERENCES [dbo].[semester] ([semester])

GO

ALTER TABLE [dbo].[class] CHECK CONSTRAINT [FK_class_semester]

GO

ALTER TABLE [dbo].[enroll] WITH CHECK ADD CONSTRAINT
[FK_enroll_class] FOREIGN KEY([CLid])
REFERENCES [dbo].[class] ([CLid])

GO

ALTER TABLE [dbo].[enroll] CHECK CONSTRAINT [FK_enroll_class]

GO

ALTER TABLE [dbo].[enroll] WITH CHECK ADD CONSTRAINT
[FK_enroll_group] FOREIGN KEY([GiD])
REFERENCES [dbo].[group] ([GiD])

GO

ALTER TABLE [dbo].[enroll] CHECK CONSTRAINT [FK_enroll_group]

GO

ALTER TABLE [dbo].[join] WITH CHECK ADD CONSTRAINT [FK_join_class]
FOREIGN KEY([CLid])
REFERENCES [dbo].[class] ([CLid])

GO

ALTER TABLE [dbo].[join] CHECK CONSTRAINT [FK_join_class]

GO

ALTER TABLE [dbo].[join] WITH CHECK ADD CONSTRAINT
[FK_join_student] FOREIGN KEY([SiD])
REFERENCES [dbo].[student] ([SiD])

GO

ALTER TABLE [dbo].[join] CHECK CONSTRAINT [FK_join_student]

GO

ALTER TABLE [dbo].[result ] WITH CHECK ADD CONSTRAINT
[FK_assessment_Student_Assessment system] FOREIGN KEY([Aid])
REFERENCES [dbo].[Assessment system] ([Aid])

GO

```

```

ALTER TABLE [dbo].[result ] CHECK CONSTRAINT
[FK_assessment_Student_Assessment system]

GO

ALTER TABLE [dbo].[result ] WITH CHECK ADD CONSTRAINT
[FK_assessment_Student_student1] FOREIGN KEY([Sid])

REFERENCES [dbo].[student] ([SiD])

GO

ALTER TABLE [dbo].[result ] CHECK CONSTRAINT
[FK_assessment_Student_student1]

GO

ALTER TABLE [dbo].[supervisor] WITH CHECK ADD CONSTRAINT
[FK_supervisor_class] FOREIGN KEY([CLid])

REFERENCES [dbo].[class] ([CLid])

GO

ALTER TABLE [dbo].[supervisor] CHECK CONSTRAINT [FK_supervisor_class]

GO

ALTER TABLE [dbo].[supervisor] WITH CHECK ADD CONSTRAINT
[FK_supervisor_Lecturer] FOREIGN KEY([LiD])

REFERENCES [dbo].[Lecturer] ([LiD])

GO

ALTER TABLE [dbo].[supervisor] CHECK CONSTRAINT
[FK_supervisor_Lecturer]

GO

```

## VIII. Các câu lệnh Query

### 1. INDEXES

```

-- INDEXES --
CREATE INDEX Stu_Name ON Student([Last Name], [First Name])
CREATE INDEX Lec_Name ON Lecturer(LecturerName)
SELECT * FROM student WHERE [Last Name] = N'Nguyễn Văn' AND
[First name] = 'A'

DROP VIEW View_Assess_AssessSystem
CREATE VIEW View_Assess_AssessSystem
AS
(SELECT class.CLid, enroll.GiD, Assessment.Aid
, semester.semester, [start date], [end date], course.CiD,
[AS].CaID, [No question], Duration, [weight]
FROM
class INNER JOIN enroll ON class.CLid = Enroll.CLid
INNER JOIN course on course.CiD=class.CiD

```

```

INNER JOIN Assessment ON class.CiD =
Assessment.CiD
INNER JOIN [Assessment system] AS [AS] ON
[AS].Aid = Assessment.Aid
INNER JOIN semester ON
semester.semester=class.semester)

```

```
SELECT * FROM View_Assess_AssessSystem
```

|    | CLid     | GiD     | Aid     | semester  | start date | end date   | CiD    | CalD | No question | Duration | weight |
|----|----------|---------|---------|-----------|------------|------------|--------|------|-------------|----------|--------|
| 1  | FA21BIAO | IOT1607 | IAOAS   | FALL 2021 | 2021-09-01 | 2021-12-01 | iao202 | AS   | 30          | 45 mins  | 0.1    |
| 2  | FA21BIAO | IOT1607 | IAOFE   | FALL 2021 | 2021-09-01 | 2021-12-01 | iao202 | FE   | 60          | 90 mins  | 0.4    |
| 3  | FA21BIAO | IOT1607 | IAOLAB1 | FALL 2021 | 2021-09-01 | 2021-12-01 | iao202 | LAB1 | 15          | 30 mins  | 0.05   |
| 4  | FA21BIAO | IOT1607 | IAOLAB2 | FALL 2021 | 2021-09-01 | 2021-12-01 | iao202 | LAB2 | 15          | 30 mins  | 0.05   |
| 5  | FA21BIAO | IOT1607 | IAOPT1  | FALL 2021 | 2021-09-01 | 2021-12-01 | iao202 | PT1  | 40          | 60 mins  | 0.2    |
| 6  | FA21BIAO | IOT1607 | IAOPT2  | FALL 2021 | 2021-09-01 | 2021-12-01 | iao202 | PT2  | 40          | 60 mins  | 0.2    |
| 7  | FA21BNWC | IA1604  | NWCAS   | FALL 2021 | 2021-09-01 | 2021-12-01 | NWC204 | AS   | 30          | 45 mins  | 0.1    |
| 8  | FA21BNWC | IA1604  | NWCFE   | FALL 2021 | 2021-09-01 | 2021-12-01 | NWC204 | FE   | 60          | 90 mins  | 0.4    |
| 9  | FA21BNWC | IA1604  | NWCLAB1 | FALL 2021 | 2021-09-01 | 2021-12-01 | NWC204 | LAB1 | 15          | 30 mins  | 0.05   |
| 10 | FA21BNWC | IA1604  | NWCLAB2 | FALL 2021 | 2021-09-01 | 2021-12-01 | NWC204 | LAB2 | 15          | 30 mins  | 0.05   |
| 11 | FA21BNWC | IA1604  | NWCPT1  | FALL 2021 | 2021-09-01 | 2021-12-01 | NWC204 | PT1  | 40          | 60 mins  | 0.2    |
| 12 | FA21BNWC | IA1604  | NWCPT2  | FALL 2021 | 2021-09-01 | 2021-12-01 | NWC204 | PT2  | 40          | 60 mins  | 0.2    |
| 13 | FA21CLAB | IOT1607 | LABLOC  | FALL 2021 | 2021-09-01 | 2021-12-01 | lab211 | LOC  | 75          | 30 Slots | 1      |
| 14 | FA21DDBI | IOT1607 | DBIAS   | FALL 2021 | 2021-09-01 | 2021-12-01 | dbi202 | AS   | 10          | 28 Slots | 0.2    |
| 15 | FA21DDBI | IOT1607 | DBIFE   | FALL 2021 | 2021-09-01 | 2021-12-01 | dbi202 | FE   | 60          | 90 mins  | 0.4    |
| 16 | FA21DDBI | IOT1607 | DBILAB1 | FALL 2021 | 2021-09-01 | 2021-12-01 | dbi202 | LAB1 | 20          | 30 mins  | 0.05   |
| 17 | FA21DDBI | IOT1607 | DBILAB2 | FALL 2021 | 2021-09-01 | 2021-12-01 | dbi202 | LAB2 | 20          | 30 mins  | 0.05   |

- Câu lệnh indexes này được tạo ra nhằm tra cứu thời gian sinh viên bắt đầu 1 môn học mà các đầu điểm mà sinh viên đó đã đạt được

## 2. Procedure

```

CREATE PROCEDURE Count_Student
    @GR VARCHAR(50),
    @COUNT INT OUT
AS
BEGIN
    SELECT @COUNT = COUNT(TBL.SiD) FROM
    (SELECT student.SiD,enroll.GiD
    FROM student INNER JOIN [join] ON student.SiD=[join].SiD
    INNER JOIN enroll ON
    [join].CLid=enroll.CLid
    ) AS TBL WHERE GiD = @GR
END

DECLARE @NumOfStu INT = 0;
EXEC Count_Student @GR = 'IA1604', @COUNT = @NumOfStu OUT
PRINT @NumOfStu;

```

```

(1 row affected)
200

```

- Procedure này được tạo ra nhằm đếm số sinh viên cùng lớp 'IA1604'

## 3. Trigger

```

CREATE TRIGGER [Average] ON [join]
AFTER INSERT, UPDATE
AS
    DECLARE @AVG FLOAT;
    DECLARE @CLASS VARCHAR(50);
    DECLARE @STU VARCHAR(50);
    DECLARE @AVERAGE FLOAT;
    DECLARE @STA VARCHAR(50);
    SELECT @STU = SiD, @CLASS = CLid, @AVG = average, @STA =
[status] FROM inserted;

    SELECT @AVERAGE = SUM(Score * [weight])
    FROM
        (SELECT student.SiD,enroll.GiD
        FROM student INNER JOIN [join] ON student.SiD=[join].SiD
        INNER JOIN enroll ON
[join].CLid=enroll.CLid
        ) AS J INNER JOIN Enroll ON J.GiD = Enroll.GiD
        INNER JOIN
[dbo].View_Assess_AssessSystem AS VAA ON VAA.GiD = enroll.GiD
        INNER JOIN [result ] ON J.SiD =
[result ].SiD AND [result ].Aid = VAA.Aid

    WHERE J.SiD = @STU AND VAA.CLid = @CLASS
    GROUP BY J.SiD, VAA.CLid, VAA.CiD, VAA.GiD
    IF @AVG <> @AVERAGE
    BEGIN
        PRINT 'Average score added to [View] was not
corresponding to the average scored counted from [Grade]'
        ROLLBACK TRAN
    END
    ELSE IF (NOT @STA = 'PASSED') AND (NOT @STA = 'NOT
PASSED')
    BEGIN
        PRINT 'Status must be passed or not passed'
        ROLLBACK TRAN
    END
    ELSE IF (@AVG <= 4 AND @STA = 'PASSED') OR (@AVG > 4 AND
@STA = 'NOT PASSED')
    BEGIN
        PRINT 'Incorrect Status'
        ROLLBACK TRAN
    END

    UPDATE [join] SET average = 8.645, [status] = '000' WHERE
SiD = 'HE00001' AND CLid = 'FA21APRO'

    SELECT * FROM [join]

```

Trigger này được tạo ra để đánh giá nhanh trạng thái của 1 sinh viên bằng điểm trung bình của họ

#### 4. 10 queries

--order by query

```
SELECT * FROM student ORDER BY [First name], [Last Name]
```

|    | SiD     | First name | Last Name | DoB        | gender | address | mail           |
|----|---------|------------|-----------|------------|--------|---------|----------------|
| 1  | HE00027 | Nguyen Thi | A         | 2002-02-01 | 0      | hanoi   | anv@fpt.edu.vn |
| 2  | HE00028 | Nguyen Thi | B         | 2002-02-02 | 0      | hanoi   | bnv@fpt.edu.vn |
| 3  | HE00029 | Nguyen Thi | C         | 2002-02-03 | 0      | hanoi   | cnv@fpt.edu.vn |
| 4  | HE00030 | Nguyen Thi | D         | 2002-02-04 | 0      | hanoi   | dnv@fpt.edu.vn |
| 5  | HE00031 | Nguyen Thi | E         | 2002-02-05 | 0      | hanoi   | env@fpt.edu.vn |
| 6  | HE00032 | Nguyen Thi | F         | 2002-02-06 | 0      | hanoi   | fnv@fpt.edu.vn |
| 7  | HE00033 | Nguyen Thi | G         | 2002-02-07 | 0      | hanoi   | gnv@fpt.edu.vn |
| 8  | HE00034 | Nguyen Thi | H         | 2002-02-08 | 0      | hanoi   | hnv@fpt.edu.vn |
| 9  | HE00035 | Nguyen Thi | I         | 2002-02-09 | 0      | hanoi   | inv@fpt.edu.vn |
| 10 | HE00036 | Nguyen Thi | K         | 2002-02-11 | 0      | hanoi   | knv@fpt.edu.vn |
| 11 | HE00037 | Nguyen Thi | L         | 2002-02-12 | 0      | hanoi   | lnv@fpt.edu.vn |
| 12 | HE00038 | Nguyen Thi | M         | 2002-02-13 | 0      | hanoi   | mnv@fpt.edu.vn |
| 13 | HE00039 | Nguyen Thi | N         | 2002-02-14 | 0      | hanoi   | nnv@fpt.edu.vn |
| 14 | HE00040 | Nguyen Thi | O         | 2002-02-15 | 0      | hanoi   | onv@fpt.edu.vn |
| 15 | HE00041 | Nguyen Thi | P         | 2002-02-16 | 0      | hanoi   | pnv@fpt.edu.vn |
| 16 | HE00042 | Nguyen Thi | Q         | 2002-02-17 | 0      | hanoi   | qnv@fpt.edu.vn |
| 17 | HE00043 | Nguyen Thi | R         | 2002-02-18 | 0      | hanoi   | rnv@fpt.edu.vn |

--inner join

```
SELECT student.SiD, [Last Name], [First Name], class.CLid, AiD,  
semester.semester, semester.[start date], semester.[end date]
```

```
FROM student INNER JOIN [join] ON student.SiD=[join].SiD
```

```
INNER JOIN class ON
```

```
[join].CLid=class.CLid
```

```
INNER JOIN semester ON
```

```
semester.semester=class.semester
```

```
INNER JOIN Assessment ON
```

```
Assessment.CiD=class.CiD
```

|    | SiD     | Last Name | First Name | CLid     | AiD     | semester  | start date | end date   |
|----|---------|-----------|------------|----------|---------|-----------|------------|------------|
| 1  | HE00001 | A         | Nguyen Van | FA21BNWC | NWCAS   | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 2  | HE00001 | A         | Nguyen Van | FA21BNWC | NWCFE   | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 3  | HE00001 | A         | Nguyen Van | FA21BNWC | NWCLAB1 | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 4  | HE00001 | A         | Nguyen Van | FA21BNWC | NWCLAB2 | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 5  | HE00001 | A         | Nguyen Van | FA21BNWC | NWCPT1  | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 6  | HE00001 | A         | Nguyen Van | FA21BNWC | NWCPT2  | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 7  | HE00002 | B         | Nguyen Van | FA21BNWC | NWCAS   | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 8  | HE00002 | B         | Nguyen Van | FA21BNWC | NWCFE   | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 9  | HE00002 | B         | Nguyen Van | FA21BNWC | NWCLAB1 | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 10 | HE00002 | B         | Nguyen Van | FA21BNWC | NWCLAB2 | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 11 | HE00002 | B         | Nguyen Van | FA21BNWC | NWCPT1  | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 12 | HE00002 | B         | Nguyen Van | FA21BNWC | NWCPT2  | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 13 | HE00003 | C         | Nguyen Van | FA21BNWC | NWCAS   | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 14 | HE00003 | C         | Nguyen Van | FA21BNWC | NWCFE   | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 15 | HE00003 | C         | Nguyen Van | FA21BNWC | NWCLAB1 | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 16 | HE00003 | C         | Nguyen Van | FA21BNWC | NWCLAB2 | FALL 2021 | 2021-09-01 | 2021-12-01 |
| 17 | HE00003 | C         | Nguyen Van | FA21BNWC | NWCPT1  | FALL 2021 | 2021-09-01 | 2021-12-01 |

```
-- A query that uses aggregate functions
Select Max([Score]) as [Highest Mark] From [result ]
```

|   | Highest Mark |
|---|--------------|
| 1 | 900          |

```
-- A query that uses a sub-query in the WHERE clause
SELECT *FROM Student WHERE DOB <= ALL (SELECT DOB FROM Student);
```

|   | SiD     | First name | Last Name | DoB        | gender | address | mail           |
|---|---------|------------|-----------|------------|--------|---------|----------------|
| 1 | HE00001 | Nguyen Van | A         | 2002-01-01 | 1      | hanoi   | anv@fpt.edu.vn |

```
--find information
CREATE INDEX Stu Name ON Student([Last Name], [First Name])
```

```
SELECT * FROM Student WHERE [Last Name] = N'A' AND [First Name]
= 'Nguyen Van'
```

|   | SiD     | First name | Last Name | DoB        | gender | address | mail           |
|---|---------|------------|-----------|------------|--------|---------|----------------|
| 1 | HE00001 | Nguyen Van | A         | 2002-01-01 | 1      | hanoi   | anv@fpt.edu.vn |

```
--A query that uses the GROUP BY and HAVING clauses
SELECT r.Sid, ass.CiD, c.CaID, AVG(Score) as Total, [Completion
Criteria] FROM [result ] r
INNER JOIN [Assessment system] a on r.Aid = a.Aid
INNER JOIN [Categories] c on c.CaID = a.CaID
INNER JOIN Assessment ass on ass.Aid = a.Aid GROUP BY CiD, Sid,
c.CaID, [Completion Criteria] Having AVG(Score) >5
```

|    | Sid     | CiD    | CalD | Total | Completion Criteria |
|----|---------|--------|------|-------|---------------------|
| 1  | HE00001 | csd201 | FE   | 8     | >4                  |
| 2  | HE00001 | csd201 | LAB1 | 7.5   | >0                  |
| 3  | HE00001 | csd201 | LAB2 | 6     | >0                  |
| 4  | HE00001 | csd201 | PE   | 8     | >0                  |
| 5  | HE00001 | csd201 | PT   | 8.5   | >0                  |
| 6  | HE00003 | csd201 | FE   | 7.5   | >4                  |
| 7  | HE00003 | csd201 | LAB1 | 7.3   | >0                  |
| 8  | HE00003 | csd201 | LAB2 | 8.6   | >0                  |
| 9  | HE00003 | csd201 | PE   | 9.3   | >0                  |
| 10 | HE00003 | csd201 | PT   | 9.4   | >0                  |
| 11 | HE00001 | CSI104 | AS1  | 7     | >0                  |
| 12 | HE00001 | CSI104 | AS2  | 9     | >0                  |
| 13 | HE00001 | CSI104 | FE   | 10    | >4                  |
| 14 | HE00001 | CSI104 | LAB1 | 10    | >0                  |
| 15 | HE00001 | CSI104 | PT1  | 8     | >0                  |
| 16 | HE00001 | CSI104 | PT2  | 9     | >0                  |
| 17 | HE00002 | CSI104 | AS1  | 7.5   | >0                  |

```
-- A query that uses a sub-query in the WHERE clause:
SELECT J.SiD,CONCAT([First Name], ' ',[Last Name] ) AS [Student
Name], CLid,average,[status]
FROM
    Student inner join [join] AS J ON Student.SiD = J.SiD
    INNER JOIN [result ] AS r ON J.SiD = r.SiD
WHERE CLid = (SELECT CLid FROM Class WHERE CLid = 'FA21APRO')
```

|    | SiD     | Student Name | CLid     | average | status |
|----|---------|--------------|----------|---------|--------|
| 68 | HE00001 | Nguyen Van A | FA21APRO | 8.645   | PASSED |
| 69 | HE00001 | Nguyen Van A | FA21APRO | 8.645   | PASSED |
| 70 | HE00001 | Nguyen Van A | FA21APRO | 8.645   | PASSED |
| 71 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 72 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 73 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 74 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 75 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 76 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 77 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 78 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 79 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 80 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 81 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 82 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 83 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |
| 84 | HE00002 | Nguyen Van B | FA21APRO | 8.365   | PASSED |