



# Student Grading Manage

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DBI202 – LECTURER: SONNT5

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HE163581 | IA1604

# I. Phân tích và thiết kế hệ thống

## 1. Hệ thống quản lý điểm

### 1.1. Dữ liệu đầu vào

- Thông tin sinh viên, thông tin giảng viên, thông tin lớp học, thông tin về điểm
- Các yêu cầu tìm kiếm

### 1.2. Dữ liệu đầu ra

- Bảng điểm từng môn học
- Bảng các môn đã học qua các kì
- Bảng chi tiết về các Category của môn học
- Điều kiện để **Pass** các môn:
  - Average mark  $\geq 5.0$ : **PASSED**
  - Average mark  $< 5.0$ : **NOT PASSED**
  - Progress Tests or Practical Exam = 0: **NOT PASSED**
  - Final Exam  $< 4.0$ : **NOT PASSED**
  - Số buổi nghỉ  $> 20\%$  tổng số buổi học: **NOT PASSED**
- Xếp loại học tập
  - 8.0 -> 8.99: xếp loại sinh viên Giỏi
  - 9.0 -> 10.0: xếp loại sinh viên Xuất sắc

- 9.0 -> 10.0 và điểm phong trào đạt 10.0: Đạt Cốc vàng.

## 2.Xác định và tổng hợp các dữ liệu

### Bảng thông tin các điểm thành phần

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 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.  Progress test must be taken right after the last lectures of required material.  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 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	

### Category:

Mô tả: Danh sách các đầu điểm

- Quiz1
- Quiz2
- ProgressTest
- Final Exam

### Part:

Mô tả: Số lượng đầu điểm trên từng hạng mục

### Weight:

Mô tả: Trọng số của từng đầu điểm

### Completion Criteria:

Mô tả: Điều kiện thi và điểm tối thiểu để pass

**Duration:**

Mô tả: Lượng thời gian và địa điểm thực hiện đầu điểm

**Question Type:**

Mô tả: Cách để lấy đầu điểm

- Multiple Choice
- Presentation
- Practice

**No Question:**

Mô tả: Số lượng câu hỏi trong đầu điểm

**Knowledge and Skill:**

Mô tả: Kiến thức và kỹ năng cần chuẩn bị cho bài thi lấy đầu điểm

**Grading Guide:**

Mô tả: Người đánh giá và cho điểm

**Bảng thống kê thông tin các môn học của một học sinh:**

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

**Subject Code:**

Mô tả: Mã môn học

**Subject Name:**

Mô tả: Tên môn học

**Semester:**

Mô tả: Học kì đã học môn học đó

**Group**

Mô tả: Lớp học mà học sinh tham gia để học môn học

**Start Date:**

Mô tả: Ngày bắt đầu kì học

**End Date:**

Mô tả: Ngày kết thúc kì học

**Average Mark:**

Mô tả: Điểm trung bình của môn học đó

**Status:**

Mô tả: Kết quả đã qua hay chưa qua môn

**Bảng điểm của sinh viên:**

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 %		
COURSE TOTAL	AVERAGE	8.4		
	STATUS	PASSED		

**Grade Category:**

Mô tả: Danh sách các đầu điểm

- Quiz1
- Quiz2
- ProgressTest
- Final Exam

**Grade Item:**

Mô tả: Tên và tổng các đầu điểm

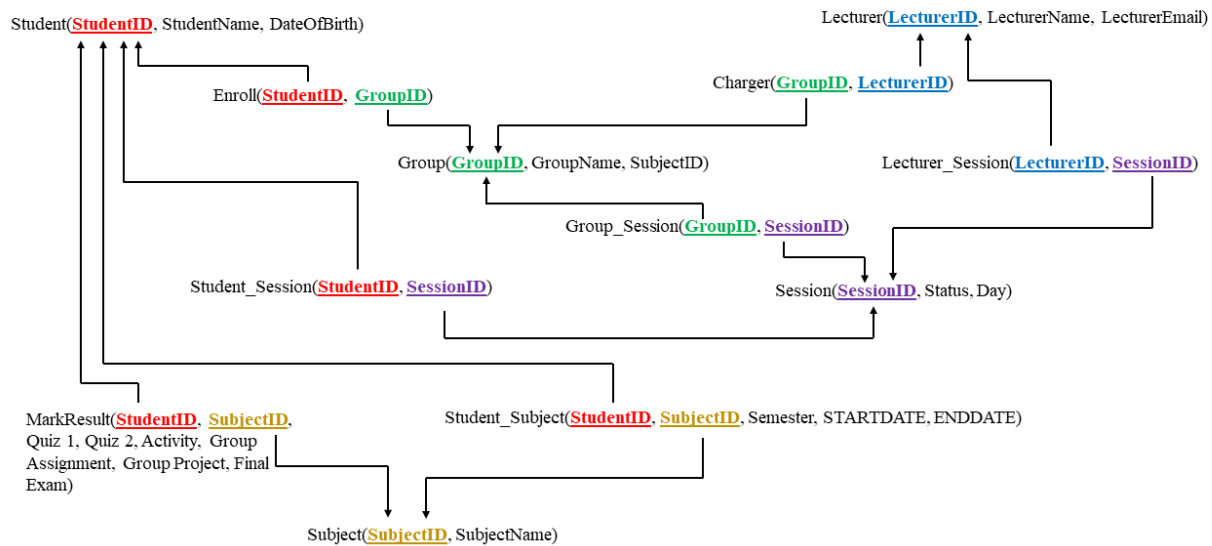
**Weight:**

Mô tả: Trọng số của từng đầu điểm

**Value:**

Mô tả: Điểm sinh viên đạt được

**3.Phân tích, phác thảo database sang dạng bảng**



Database này sẽ được chia làm 12 bảng, trong đó:

Thực thể 1: Student bao gồm

- **StudentID**
- StudentName
- DateOfBirth
- Gender
- Address.

Thực thể 2: Group bao gồm

- **GroupID**
- GroupName
- SubjectID
- Semester

Thực thể 3: Enroll Bao gồm

- **StudentID**



- **GroupID**

Đây chính là bảng relation giữa Group và Student

Thực thể 4: Lecturer bao gồm

- **LecturerID**
- LecturerName
- LecturerEmail

Thực thể 5: Charge bao gồm

- **GroupID**
- **LecturerID**

để liên kết 2 bảng Group và Lecturer

Thực thể 6: Session bao gồm

- **SessionID**
- Status
- Day

Thực thể 7: Lecturer\_Session bao gồm

- **LecturerID**
- **SessionID**

liên kết bảng Lecturer và Session

Thực thể 8: Student\_Session bao gồm

- **StudentID**
- **SessionID**

liên kết bảng Student và Sesion

Thực thể 9: Subject bao gồm

- **SubjectID**
- SubjectName

Thực thể 10: Semester bao gồm

- **Semester**
- Start
- End

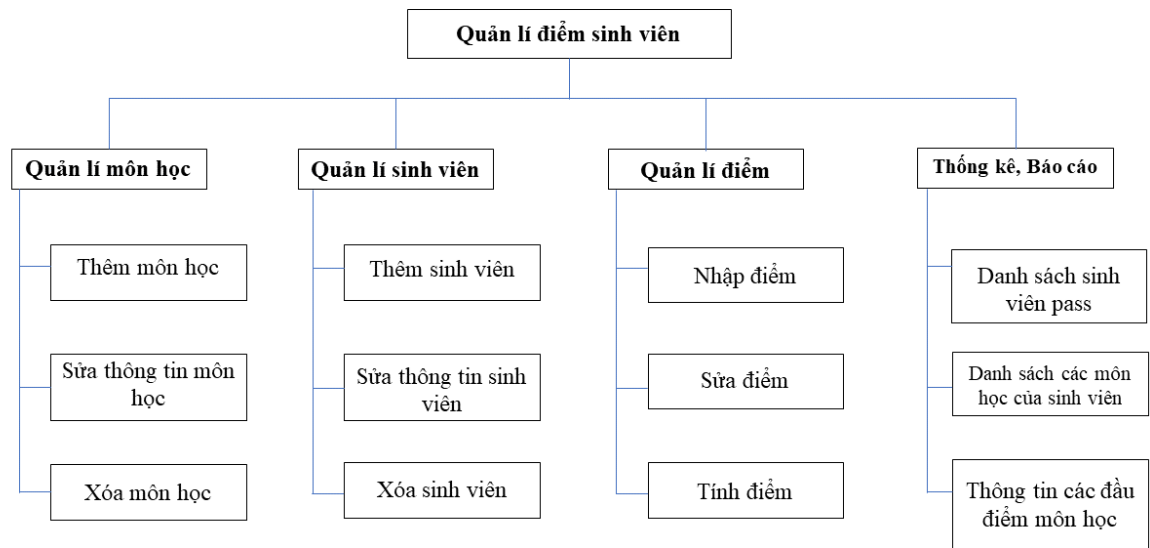
Thực thể 11: Assessment bao gồm

- **AssessmentID**
- Name
- Weight
- SubjectID

Thực thể 12: Assessment\_Student bao gồm

- **AssessmentID**
- **Student**
- Date
- Score

## **2. Biểu đồ phân cấp chức năng**



### Các chức năng cụ thể:

- Quản lý môn học:
  - + Có các chức năng thêm, sửa, xóa các môn học theo yêu cầu
  - + Cung cấp các thông tin về môn học trong mỗi kì học cho nhà trường, giáo viên và sinh viên khi có yêu cầu
- Quản lý sinh viên
  - + Có các chức năng thêm, sửa xóa thông tin sinh viên theo yêu cầu của nhà trường
  - + Cung cấp thông tin về sinh viên cho nhà trường, giáo viên theo yêu
- Quản lý điểm
  - + Có chức năng cập nhật điểm cho sinh viên sau mỗi kì học

- + Thực hiện phúc khảo điểm cho sinh viên khi sinh viên yêu cầu
- + Báo cáo, thống kê điểm của sinh viên cho nhà trường, giáo viên và sinh viên khi có yêu cầu
- Thống kê, báo cáo
  - + Thống kê danh sách sinh viên pass từng môn học sau mỗi kì học
  - + Thống kê tỷ lệ sinh viên pass và not pass sau mỗi kì
  - + Thống kê danh sách môn học của từng kì
  - + Thống kê danh sách điểm của từng sinh viên
  - + Thống kê các sinh viên theo từng kì học

### **3.Chuẩn hóa thuộc tính các Attribute trên từng bảng**

#### **1.Table Student**

Attributes	Type
StudentID	NVARCHAR
StudentName	NVARCHAR
DateOfBirth	DATE

#### **2.Table Group**

Attributes	Type
------------	------

GroupID	NVARCHAR
GroupName	NVARCHAR
SubjectID	NVARCHAR
Semester	NVARCHAR

### 3. Table Enroll

Attributes	Type
StudentID	NVARCHAR
GroupID	NVARCHAR

### 4. Table Semester

Attributes	Type
Semester	NVARCHAR
Start	DATE
End	DATE

### 5. Table Lecturer

Attributes	Type
Lecturer	NVARCHAR
LecturerName	NVARCHAR
LecturerEmail	NVARCHAR

## 6. Table Charge

Attributes	Type
GroupID	NVARCHAR
LecturerID	NVARCHAR

## 7. Table Session

Attributes	Type
SessionID	NVARCHAR
Status	BIT
Day	DATE

## 8. Table Student\_Session

Attributes	Type
StudentID	NVARCHAR
SessionID	NVARCHAR

## 9. Table Lecturer\_Session

Attributes	Type
------------	------

LecturerID	NVARCHAR
SessionID	NVARCHAR

## 10.Table Assessment

Attributes	Type
AssessmentID	NVARCHAR
Name	NVARCHAR
Weight	FLOAT
SubjectID	NVARCHAR

## 11.Table Assessment\_Student

Attributes	Type
StudentID	NVARCHAR
StudentID	NVARCHAR
Date	DATE
Score	FLOAT

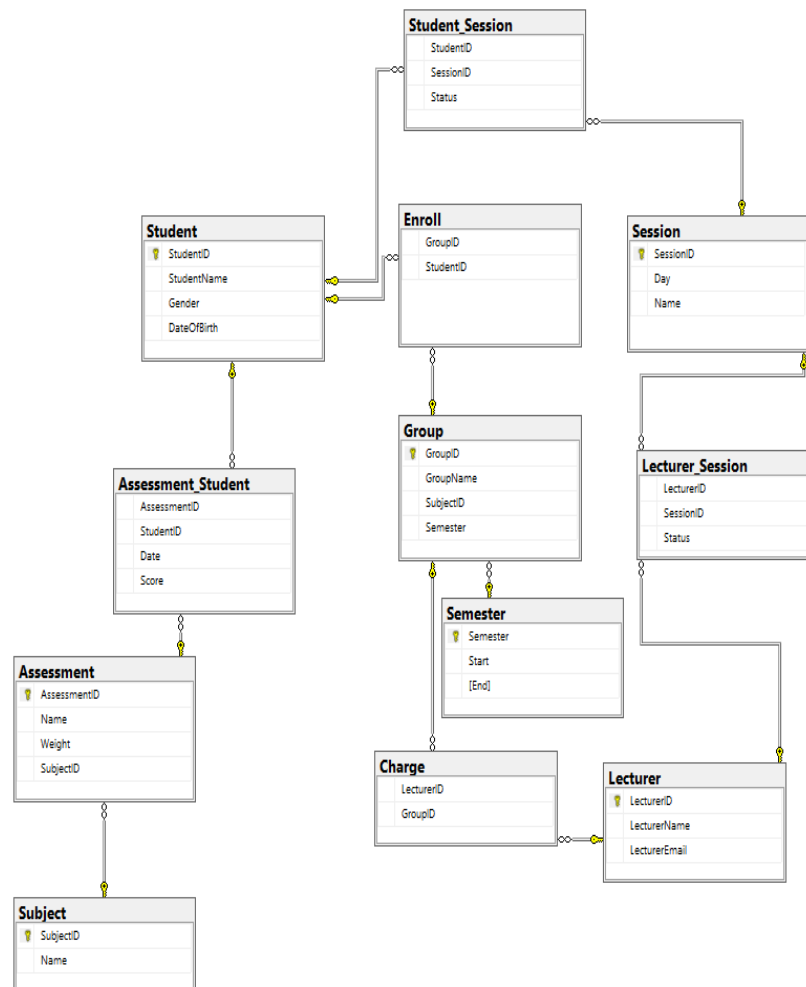
## 12.Table Subject

Attributes	Type
SubjectID	NVARCHAR

SubjectName	NVARCHAR
-------------	----------

## II. THIẾT KẾ CƠ SỞ DỮ LIỆU

### 1. Thiết kế cơ sở dữ liệu



**Biểu đồ cấu trúc dữ liệu theo mỗi quan hệ**

- Danh sách các thuộc tính:



- Danh sách các thuộc tính lập:
- Danh sách các phụ thuộc hàm

## 2. Một số truy vấn SQL

### Create Database DBI202\_Assignment\_Vuong

```
USE [DBI202_Assignment_Vuong]
GO
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
--Tao Bang Assessment--
CREATE TABLE [dbo].[Assessment](
    [AssessmentID] [nvarchar](50) NOT NULL,
    [Name] [nvarchar](50) NOT NULL,
    [Weight] [float] NOT NULL,
    [SubjectID] [nvarchar](50) NOT NULL,
    CONSTRAINT [PK_Assessment] PRIMARY KEY CLUSTERED
(
    [AssessmentID] 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

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[Assessment_Student](
    [AssessmentID] [nvarchar](50) NOT NULL,
    [StudentID] [nvarchar](50) NOT NULL,
    [Date] [date] NOT NULL,
    [Score] [float] NOT NULL
) ON [PRIMARY]
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[Charge](
    [LecturerID] [nvarchar](50) NOT NULL,
```

```
        [GroupID] [nvarchar](50) NOT NULL
    ) ON [PRIMARY]
GO
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[Enroll](
    [GroupID] [nvarchar](50) NOT NULL,
    [StudentID] [nvarchar](50) NOT NULL
) ON [PRIMARY]
GO
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[Group](
    [GroupID] [nvarchar](50) NOT NULL,
    [GroupName] [nvarchar](50) NOT NULL,
    [SubjectID] [nvarchar](50) NOT NULL,
    [Semester] [nvarchar](50) NOT NULL,
    CONSTRAINT [PK_Group] PRIMARY KEY CLUSTERED
(
    [GroupID] 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
```

```
SET ANSI_NULLS ON
```

```
GO
```

```
SET QUOTED_IDENTIFIER ON
```

```
GO
```

```
CREATE TABLE [dbo].[Lecturer](
    [LecturerID] [nvarchar](50) NOT NULL,
    [LecturerName] [nvarchar](50) NOT NULL,
    [LecturerEmail] [nvarchar](50) NOT NULL,
    CONSTRAINT [PK_Lecturer] PRIMARY KEY CLUSTERED
(
    [LecturerID] 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
```

```

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[Lecturer_Session](
    [LecturerID] [nvarchar](50) NOT NULL,
    [SessionID] [nvarchar](50) NOT NULL,
    [Status] [bit] NOT NULL
) ON [PRIMARY]
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[Semester](
    [Semester] [nvarchar](50) NOT NULL,
    [Start] [date] NOT NULL,
    [End] [date] NOT 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

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[Session](
    [SessionID] [nvarchar](50) NOT NULL,
    [Day] [date] NOT NULL,
    [Name] [nvarchar](50) NULL,
    CONSTRAINT [PK_Session] PRIMARY KEY CLUSTERED
(
    [SessionID] 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

SET ANSI_NULLS ON
GO

```

```

SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[Student](
    [StudentID] [nvarchar](50) NOT NULL,
    [StudentName] [nvarchar](50) NOT NULL,
    [Gender] [bit] NOT NULL,
    [DateOfBirth] [date] NOT NULL,
    CONSTRAINT [PK_Student] PRIMARY KEY CLUSTERED
(
    [StudentID] 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

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[Student_Session](
    [StudentID] [nvarchar](50) NOT NULL,
    [SessionID] [nvarchar](50) NOT NULL,
    [Status] [bit] NOT NULL
) ON [PRIMARY]
GO

SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[Subject](
    [SubjectID] [nvarchar](50) NOT NULL,
    [Name] [nvarchar](50) NOT NULL,
    CONSTRAINT [PK_Subject] PRIMARY KEY CLUSTERED
(
    [SubjectID] 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
ALTER TABLE [dbo].[Assessment] WITH CHECK ADD CONSTRAINT
[FK_Assessment_Subject] FOREIGN KEY([SubjectID])
REFERENCES [dbo].[Subject] ([SubjectID])
GO
ALTER TABLE [dbo].[Assessment] CHECK CONSTRAINT [FK_Assessment_Subject]
GO

```

```

ALTER TABLE [dbo].[Assessment_Student] WITH CHECK ADD CONSTRAINT
[FK_Assessment_Student_Assessment] FOREIGN KEY([AssessmentID])
REFERENCES [dbo].[Assessment] ([AssessmentID])
GO
ALTER TABLE [dbo].[Assessment_Student] CHECK CONSTRAINT
[FK_Assessment_Student_Assessment]
GO
ALTER TABLE [dbo].[Assessment_Student] WITH CHECK ADD CONSTRAINT
[FK_Assessment_Student_Student] FOREIGN KEY([StudentID])
REFERENCES [dbo].[Student] ([StudentID])
GO
ALTER TABLE [dbo].[Assessment_Student] CHECK CONSTRAINT
[FK_Assessment_Student_Student]
GO
ALTER TABLE [dbo].[Charge] WITH CHECK ADD CONSTRAINT [FK_Charge_Group]
FOREIGN KEY([GroupID])
REFERENCES [dbo].[Group] ([GroupID])
GO
ALTER TABLE [dbo].[Charge] CHECK CONSTRAINT [FK_Charge_Group]
GO
ALTER TABLE [dbo].[Charge] WITH CHECK ADD CONSTRAINT
[FK_Charge_Lecturer] FOREIGN KEY([LecturerID])
REFERENCES [dbo].[Lecturer] ([LecturerID])
GO
ALTER TABLE [dbo].[Charge] CHECK CONSTRAINT [FK_Charge_Lecturer]
GO
ALTER TABLE [dbo].[Enroll] WITH CHECK ADD CONSTRAINT [FK_Enroll_Group]
FOREIGN KEY([GroupID])
REFERENCES [dbo].[Group] ([GroupID])
GO
ALTER TABLE [dbo].[Enroll] CHECK CONSTRAINT [FK_Enroll_Group]
GO
ALTER TABLE [dbo].[Enroll] WITH CHECK ADD CONSTRAINT [FK_Enroll_Student]
FOREIGN KEY([StudentID])
REFERENCES [dbo].[Student] ([StudentID])
GO
ALTER TABLE [dbo].[Enroll] CHECK CONSTRAINT [FK_Enroll_Student]
GO
ALTER TABLE [dbo].[Group] WITH CHECK ADD CONSTRAINT [FK_Group_Semester]
FOREIGN KEY([Semester])
REFERENCES [dbo].[Semester] ([Semester])
GO
ALTER TABLE [dbo].[Group] CHECK CONSTRAINT [FK_Group_Semester]
GO
ALTER TABLE [dbo].[Lecturer_Session] WITH CHECK ADD CONSTRAINT
[FK_Lecturer_Session_Lecturer] FOREIGN KEY([LecturerID])
REFERENCES [dbo].[Lecturer] ([LecturerID])
GO

```

```

ALTER TABLE [dbo].[Lecturer_Session] CHECK CONSTRAINT
[FK_Lecturer_Session_Lecturer]
GO
ALTER TABLE [dbo].[Lecturer_Session] WITH CHECK ADD CONSTRAINT
[FK_Lecturer_Session_Session] FOREIGN KEY([SessionID])
REFERENCES [dbo].[Session] ([SessionID])
GO
ALTER TABLE [dbo].[Lecturer_Session] CHECK CONSTRAINT
[FK_Lecturer_Session_Session]
GO
ALTER TABLE [dbo].[Student_Session] WITH CHECK ADD CONSTRAINT
[FK_Student_Session_Session] FOREIGN KEY([SessionID])
REFERENCES [dbo].[Session] ([SessionID])
GO
ALTER TABLE [dbo].[Student_Session] CHECK CONSTRAINT
[FK_Student_Session_Session]
GO
ALTER TABLE [dbo].[Student_Session] WITH CHECK ADD CONSTRAINT
[FK_Student_Session_Student] FOREIGN KEY([StudentID])
REFERENCES [dbo].[Student] ([StudentID])
GO
ALTER TABLE [dbo].[Student_Session] CHECK CONSTRAINT
[FK_Student_Session_Student]
GO

```

## --Insert into Database DBI202\_Assignment\_Vuong

--Student

```

INSERT INTO Student VALUES('HE2','Nguyen Van Quang','True','2002-03-
21')
INSERT INTO Student VALUES('HE3','Nguyen Van Duc','True','2002-04-
02')
INSERT INTO Student VALUES('HE4','Nguyen Dinh Hoan','True','2002-10-
21')
INSERT INTO Student VALUES('HE5','Nguyen Trong Hoang','True','2002-
06-12')
INSERT INTO Student VALUES('HE6','Hoang Thanh Huy','True','2002-07-
05')
INSERT INTO Student VALUES('HE7','Trieu Duc Thanh','True','2002-07-
3')
INSERT INTO Student VALUES('HE8','Nguyen Doanh Thinh','False','2002-
8-18')
INSERT INTO Student VALUES('HE9','Nguyen Tuan Anh','False','2002-01-
31')
INSERT INTO Student VALUES('HE10','Nguyen Tuan Hiep','False','2002-
02-22')

```

```

INSERT INTO Student VALUES('HE11','Nguyen Duc Tuan','True','2002-03-13')
INSERT INTO Student VALUES('HE11','Nguyen Duc Canh','True','2002-09-11')
INSERT INTO Student VALUES('HE12','Nguyen Thao Chi','True','2002-07-16')
INSERT INTO Student VALUES('HE13','Nguyen Thanh Tam','True','2002-11-10')
INSERT INTO Student VALUES('HE14','Nguyen Minh Quan','True','2002-09-07')
INSERT INTO Student VALUES('HE15','Nguyen Duc Anh','True','2002-05-15')
SELECT * FROM Student

```

--As\_St

```

INSERT INTO Assessment_Student VALUES('Q1-PRO','HE1','2022-06-20',8)
INSERT INTO Assessment_Student VALUES('Q2-PRO','HE1','2022-06-21','8.1')
INSERT INTO Assessment_Student VALUES('PT1-PRO','HE1','2022-06-22','9.2')
INSERT INTO Assessment_Student VALUES('PT2-PRO','HE1','2022-06-23','8.3')
INSERT INTO Assessment_Student VALUES('FE-PRO','HE1','2022-06-25','9.1')
INSERT INTO Assessment_Student VALUES('Q1-NWC','HE1','2022-06-20','7')
INSERT INTO Assessment_Student VALUES('Q2-NWC','HE1','2022-06-21','9')
INSERT INTO Assessment_Student VALUES('PT1-NWC','HE1','2022-06-22','8.5')
INSERT INTO Assessment_Student VALUES('PT2-NWC','HE1','2022-06-23','7.5')
INSERT INTO Assessment_Student VALUES('FE-NWC','HE1','2022-06-24',8)
INSERT INTO Assessment_Student VALUES('Q1-MAD','HE1','2022-06-21',9)
INSERT INTO Assessment_Student VALUES('Q2-MAD','HE1','2022-06-21',7.1)
INSERT INTO Assessment_Student VALUES('PT1-MAD','HE1','2022-06-22',8.1)
INSERT INTO Assessment_Student VALUES('PT2-MAD','HE1','2022-06-23',9)
INSERT INTO Assessment_Student VALUES('FE-MAD','HE1','2022-06-25',7.8)
INSERT INTO Assessment_Student VALUES('Q1-DBI','HE1','2022-06-18',9.4)

```

```

INSERT INTO Assessment_Student VALUES('Q2-DBI','HE1','2022-06-19',8.2)
INSERT INTO Assessment_Student VALUES('PT1-DBI','HE1','2022-06-21',9.1)
    INSERT INTO Assessment_Student VALUES('PT2-DBI','HE1','2022-06-22',9.1)

INSERT INTO Assessment_Student VALUES('FE-DBI','HE1','2022-06-24',8.4)
INSERT INTO Assessment_Student VALUES('Q1-PRO','HE2','2022-06-20',6.2)
INSERT INTO Assessment_Student VALUES('Q2-PRO','HE2','2022-06-21',4)
INSERT INTO Assessment_Student VALUES('PT1-PRO','HE2','2022-06-22',9.2)
INSERT INTO Assessment_Student VALUES('PT2-PRO','HE2','2022-06-23',9.1)
INSERT INTO Assessment_Student VALUES('FE-PRO','HE2','2022-06-25',7.1)
INSERT INTO Assessment_Student VALUES('Q1-NWC','HE2','2022-06-20',8.1)
INSERT INTO Assessment_Student VALUES('Q2-NWC','HE2','2022-06-21',8.1)
INSERT INTO Assessment_Student VALUES('PT1-NWC','HE2','2022-06-22',9.4)
INSERT INTO Assessment_Student VALUES('PT2-NWC','HE2','2022-06-23',7.4)
INSERT INTO Assessment_Student VALUES('FE-NWC','HE2','2022-06-24',6.2)
INSERT INTO Assessment_Student VALUES('Q1-MAD','HE2','2022-06-21',9.4)
INSERT INTO Assessment_Student VALUES('Q2-MAD','HE2','2022-06-21',6.7)
INSERT INTO Assessment_Student VALUES('PT1-MAD','HE2','2022-06-22',8.1)
INSERT INTO Assessment_Student VALUES('PT2-MAD','HE2','2022-06-23',7.9)
INSERT INTO Assessment_Student VALUES('FE-MAD','HE2','2022-06-25',8.4)
INSERT INTO Assessment_Student VALUES('Q1-DBI','HE2','2022-06-18',8.2)
INSERT INTO Assessment_Student VALUES('Q2-DBI','HE2','2022-06-19',8.1)
INSERT INTO Assessment_Student VALUES('PT1-DBI','HE2','2022-06-21',4.2)

```



```
INSERT INTO Assessment_Student VALUES('PT2-DBI','HE2','2022-06-22',6.2)
INSERT INTO Assessment_Student VALUES('FE-DBI','HE2','2022-06-24',8.3)
INSERT INTO Assessment_Student VALUES('Q1-PRO','HE3','2022-06-20',6.5)
INSERT INTO Assessment_Student VALUES('Q2-PRO','HE3','2022-06-21',8.2)
INSERT INTO Assessment_Student VALUES('PT1-PRO','HE3','2022-06-22',7.2)
INSERT INTO Assessment_Student VALUES('PT2-PRO','HE3','2022-06-23',8.1)
INSERT INTO Assessment_Student VALUES('FE-PRO','HE3','2022-06-25',6.9)
INSERT INTO Assessment_Student VALUES('Q1-NWC','HE3','2022-06-20',8.1)
INSERT INTO Assessment_Student VALUES('Q2-NWC','HE3','2022-06-21',6.4)
INSERT INTO Assessment_Student VALUES('PT1-NWC','HE3','2022-06-22',5.7)
INSERT INTO Assessment_Student VALUES('PT2-NWC','HE3','2022-06-23',8.3)
INSERT INTO Assessment_Student VALUES('FE-NWC','HE3','2022-06-24',9.1)
INSERT INTO Assessment_Student VALUES('Q1-MAD','HE3','2022-06-21',9.5)
INSERT INTO Assessment_Student VALUES('Q2-MAD','HE3','2022-06-21',6.3)
INSERT INTO Assessment_Student VALUES('PT1-MAD','HE3','2022-06-22',8.9)
INSERT INTO Assessment_Student VALUES('PT2-MAD','HE3','2022-06-23',7)
INSERT INTO Assessment_Student VALUES('FE-MAD','HE3','2022-06-25',9.2)
INSERT INTO Assessment_Student VALUES('Q1-DBI','HE3','2022-06-18',4.2)
INSERT INTO Assessment_Student VALUES('Q2-DBI','HE3','2022-06-19',8.4)
INSERT INTO Assessment_Student VALUES('PT1-DBI','HE3','2022-06-21',8.5)
INSERT INTO Assessment_Student VALUES('PT2-DBI','HE3','2022-06-22',7.6)
INSERT INTO Assessment_Student VALUES('FE-DBI','HE3','2022-06-24',9.2)
```

```

INSERT INTO Assessment_Student VALUES('Q1-PRO','HE4','2022-06-20',8.1)
INSERT INTO Assessment_Student VALUES('Q2-PRO','HE4','2022-06-21',7.4)
INSERT INTO Assessment_Student VALUES('PT1-PRO','HE4','2022-06-22',8.3)
INSERT INTO Assessment_Student VALUES('PT2-PRO','HE4','2022-06-23',9.4)
INSERT INTO Assessment_Student VALUES('FE-PRO','HE4','2022-06-25',8.4)
INSERT INTO Assessment_Student VALUES('Q1-NWC','HE4','2022-06-20',9)
INSERT INTO Assessment_Student VALUES('Q2-NWC','HE4','2022-06-21',8.2)
    INSERT INTO Assessment_Student VALUES('PT1-NWC','HE4','2022-06-22',7.4)

INSERT INTO Assessment_Student VALUES('PT2-NWC','HE4','2022-06-23',6.7)
INSERT INTO Assessment_Student VALUES('FE-NWC','HE4','2022-06-24',9.4)
INSERT INTO Assessment_Student VALUES('Q1-MAD','HE4','2022-06-21',9.2)
INSERT INTO Assessment_Student VALUES('Q2-MAD','HE4','2022-06-21',4.1)
INSERT INTO Assessment_Student VALUES('PT1-MAD','HE4','2022-06-22',9.2)
INSERT INTO Assessment_Student VALUES('PT2-MAD','HE4','2022-06-23',8)
INSERT INTO Assessment_Student VALUES('FE-MAD','HE4','2022-06-25',8.2)
INSERT INTO Assessment_Student VALUES('Q1-DBI','HE4','2022-06-18',8.1)
INSERT INTO Assessment_Student VALUES('Q2-DBI','HE4','2022-06-19',9.2)
INSERT INTO Assessment_Student VALUES('PT1-DBI','HE4','2022-06-21',8.1)
INSERT INTO Assessment_Student VALUES('PT2-DBI','HE4','2022-06-22',4.2)
INSERT INTO Assessment_Student VALUES('FE-DBI','HE4','2022-06-24',4.8)
INSERT INTO Assessment_Student VALUES('Q1-PRO','HE5','2022-06-20',8)
INSERT INTO Assessment_Student VALUES('Q2-PRO','HE5','2022-06-21',7)
INSERT INTO Assessment_Student VALUES('PT1-PRO','HE5','2022-06-22',9)

```

```

INSERT INTO Assessment_Student VALUES('PT2-PRO', 'HE5', '2022-06-23', 5.4)
INSERT INTO Assessment_Student VALUES('FE-PRO', 'HE5', '2022-06-25', 8.4)
INSERT INTO Assessment_Student VALUES('Q1-NWC', 'HE5', '2022-06-20', 8.2)
INSERT INTO Assessment_Student VALUES('Q2-NWC', 'HE5', '2022-06-21', 7.3)
INSERT INTO Assessment_Student VALUES('PT1-NWC', 'HE5', '2022-06-22', 9.2)
INSERT INTO Assessment_Student VALUES('PT2-NWC', 'HE5', '2022-06-23', 5.6)
INSERT INTO Assessment_Student VALUES('FE-NWC', 'HE5', '2022-06-24', 6.4)
INSERT INTO Assessment_Student VALUES('Q1-MAD', 'HE5', '2022-06-21', 8.3)
INSERT INTO Assessment_Student VALUES('Q2-MAD', 'HE5', '2022-06-21', 8.1)
INSERT INTO Assessment_Student VALUES('PT1-MAD', 'HE5', '2022-06-22', 5.4)
INSERT INTO Assessment_Student VALUES('PT2-MAD', 'HE5', '2022-06-23', 8.2)
INSERT INTO Assessment_Student VALUES('FE-MAD', 'HE5', '2022-06-25', 7.4)
INSERT INTO Assessment_Student VALUES('Q1-DBI', 'HE5', '2022-06-18', 8.1)
INSERT INTO Assessment_Student VALUES('Q2-DBI', 'HE5', '2022-06-19', 6.9)
INSERT INTO Assessment_Student VALUES('PT1-DBI', 'HE5', '2022-06-21', 7.5)
INSERT INTO Assessment_Student VALUES('PT2-DBI', 'HE5', '2022-06-22', 6.7)
INSERT INTO Assessment_Student VALUES('FE-DBI', 'HE5', '2022-06-24', 7.5)
INSERT INTO Assessment_Student VALUES('Q1-PRO', 'HE6', '2022-06-20', 8.5)
    INSERT INTO Assessment_Student VALUES('Q2-PRO', 'HE6', '2022-06-21', 9.1)

INSERT INTO Assessment_Student VALUES('PT1-PRO', 'HE6', '2022-06-22', 8.4)
INSERT INTO Assessment_Student VALUES('PT2-PRO', 'HE6', '2022-06-23', 9.2)

```

```
INSERT INTO Assessment_Student VALUES('FE-PRO', 'HE6', '2022-06-25', 7.4)
INSERT INTO Assessment_Student VALUES('Q1-NWC', 'HE6', '2022-06-20', 7.4)
INSERT INTO Assessment_Student VALUES('Q2-NWC', 'HE6', '2022-06-21', 9.5)
INSERT INTO Assessment_Student VALUES('PT1-NWC', 'HE6', '2022-06-22', 5)
INSERT INTO Assessment_Student VALUES('PT2-NWC', 'HE6', '2022-06-23', 8.4)
INSERT INTO Assessment_Student VALUES('FE-NWC', 'HE6', '2022-06-24', 6.5)
INSERT INTO Assessment_Student VALUES('Q1-MAD', 'HE6', '2022-06-21', 8.2)
INSERT INTO Assessment_Student VALUES('Q2-MAD', 'HE6', '2022-06-21', 8.1)
INSERT INTO Assessment_Student VALUES('PT1-MAD', 'HE6', '2022-06-22', 7.4)
INSERT INTO Assessment_Student VALUES('PT2-MAD', 'HE6', '2022-06-23', 8.1)
INSERT INTO Assessment_Student VALUES('FE-MAD', 'HE6', '2022-06-25', 9.2)
INSERT INTO Assessment_Student VALUES('Q1-DBI', 'HE6', '2022-06-18', 7.5)
INSERT INTO Assessment_Student VALUES('Q2-DBI', 'HE6', '2022-06-19', 4.2)
INSERT INTO Assessment_Student VALUES('PT1-DBI', 'HE6', '2022-06-21', 8.2)
INSERT INTO Assessment_Student VALUES('PT2-DBI', 'HE6', '2022-06-22', 8.1)
INSERT INTO Assessment_Student VALUES('FE-DBI', 'HE6', '2022-06-24', 9.4)
INSERT INTO Assessment_Student VALUES('Q1-PRO', 'HE7', '2022-06-20', 8.5)
INSERT INTO Assessment_Student VALUES('Q2-PRO', 'HE7', '2022-06-21', 8.4)
INSERT INTO Assessment_Student VALUES('PT1-PRO', 'HE7', '2022-06-22', 6.5)
INSERT INTO Assessment_Student VALUES('PT2-PRO', 'HE7', '2022-06-23', 7.4)
INSERT INTO Assessment_Student VALUES('FE-PRO', 'HE7', '2022-06-25', 8.9)
INSERT INTO Assessment_Student VALUES('Q1-NWC', 'HE7', '2022-06-20', 8.2)
```

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INSERT INTO Assessment_Student VALUES('Q2-NWC','HE7','2022-06-21',8.4)
INSERT INTO Assessment_Student VALUES('PT1-NWC','HE7','2022-06-22',6.9)
INSERT INTO Assessment_Student VALUES('PT2-NWC','HE7','2022-06-23',8.1)
INSERT INTO Assessment_Student VALUES('FE-NWC','HE7','2022-06-24',6.2)
INSERT INTO Assessment_Student VALUES('Q1-MAD','HE7','2022-06-21',7.4)
INSERT INTO Assessment_Student VALUES('Q2-MAD','HE7','2022-06-21',8.5)
INSERT INTO Assessment_Student VALUES('PT1-MAD','HE7','2022-06-22',9)
INSERT INTO Assessment_Student VALUES('PT2-MAD','HE7','2022-06-23',8)
INSERT INTO Assessment_Student VALUES('FE-MAD','HE7','2022-06-25',8.4)
INSERT INTO Assessment_Student VALUES('Q1-DBI','HE7','2022-06-18',7.4)

INSERT INTO Assessment_Student VALUES('Q2-DBI','HE7','2022-06-19',7.2)
INSERT INTO Assessment_Student VALUES('PT1-DBI','HE7','2022-06-21',8.3)
INSERT INTO Assessment_Student VALUES('PT2-DBI','HE7','2022-06-22',9.2)
INSERT INTO Assessment_Student VALUES('FE-DBI','HE7','2022-06-24',7.3)
INSERT INTO Assessment_Student VALUES('Q1-PRO','HE8','2022-06-20',8.4)
INSERT INTO Assessment_Student VALUES('Q2-PRO','HE8','2022-06-21',8.5)
INSERT INTO Assessment_Student VALUES('PT1-PRO','HE8','2022-06-22',9.1)
INSERT INTO Assessment_Student VALUES('PT2-PRO','HE8','2022-06-23',7.4)
INSERT INTO Assessment_Student VALUES('FE-PRO','HE8','2022-06-25',8)
INSERT INTO Assessment_Student VALUES('Q1-NWC','HE8','2022-06-20',7)
INSERT INTO Assessment_Student VALUES('Q2-NWC','HE8','2022-06-21',9.1)
INSERT INTO Assessment_Student VALUES('PT1-NWC','HE8','2022-06-22',6)

```

```

INSERT INTO Assessment_Student VALUES( 'PT2-NWC' , 'HE8' , '2022-06-23' ,9)
INSERT INTO Assessment_Student VALUES( 'FE-NWC' , 'HE8' , '2022-06-24' ,7.5)
INSERT INTO Assessment_Student VALUES( 'Q1-MAD' , 'HE8' , '2022-06-21' ,4.9)
INSERT INTO Assessment_Student VALUES( 'Q2-MAD' , 'HE8' , '2022-06-21' ,9.4)
INSERT INTO Assessment_Student VALUES( 'PT1-MAD' , 'HE8' , '2022-06-22' ,6.3)
INSERT INTO Assessment_Student VALUES( 'PT2-MAD' , 'HE8' , '2022-06-23' ,5.9)
INSERT INTO Assessment_Student VALUES( 'FE-MAD' , 'HE8' , '2022-06-25' ,8.3)
INSERT INTO Assessment_Student VALUES( 'Q1-DBI' , 'HE8' , '2022-06-18' ,7.5)
INSERT INTO Assessment_Student VALUES( 'Q2-DBI' , 'HE8' , '2022-06-19' ,8)
INSERT INTO Assessment_Student VALUES( 'PT1-DBI' , 'HE8' , '2022-06-21' ,8.1)
INSERT INTO Assessment_Student VALUES( 'PT2-DBI' , 'HE8' , '2022-06-22' ,8.1)
INSERT INTO Assessment_Student VALUES( 'FE-DBI' , 'HE8' , '2022-06-24' ,9)
INSERT INTO Assessment_Student VALUES( 'Q1-PRO' , 'HE9' , '2022-06-20' ,7.5)
INSERT INTO Assessment_Student VALUES( 'Q2-PRO' , 'HE9' , '2022-06-21' ,8.4)
INSERT INTO Assessment_Student VALUES( 'PT1-PRO' , 'HE9' , '2022-06-22' ,8)
INSERT INTO Assessment_Student VALUES( 'PT2-PRO' , 'HE9' , '2022-06-23' ,6.5)
INSERT INTO Assessment_Student VALUES( 'FE-PRO' , 'HE9' , '2022-06-25' ,9)
INSERT INTO Assessment_Student VALUES( 'Q1-NWC' , 'HE9' , '2022-06-20' ,7.3)
INSERT INTO Assessment_Student VALUES( 'Q2-NWC' , 'HE9' , '2022-06-21' ,8.1)
INSERT INTO Assessment_Student VALUES( 'PT1-NWC' , 'HE9' , '2022-06-22' ,9)
INSERT INTO Assessment_Student VALUES( 'PT2-NWC' , 'HE9' , '2022-06-23' ,7.7)
INSERT INTO Assessment_Student VALUES( 'FE-NWC' , 'HE9' , '2022-06-24' ,8.3)
INSERT INTO Assessment_Student VALUES( 'Q1-MAD' , 'HE9' , '2022-06-21' ,9.2)
INSERT INTO Assessment_Student VALUES( 'Q2-MAD' , 'HE9' , '2022-06-21' ,7)

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INSERT INTO Assessment_Student VALUES('PT1-MAD', 'HE9', '2022-06-22', 6)
INSERT INTO Assessment_Student VALUES('PT2-MAD', 'HE9', '2022-06-23', 5.7)
INSERT INTO Assessment_Student VALUES('FE-MAD', 'HE9', '2022-06-25', 7.2)
INSERT INTO Assessment_Student VALUES('Q1-DBI', 'HE9', '2022-06-18', 9.1)
INSERT INTO Assessment_Student VALUES('Q2-DBI', 'HE9', '2022-06-19', 9.2)
INSERT INTO Assessment_Student VALUES('PT1-DBI', 'HE9', '2022-06-21', 8.3)
INSERT INTO Assessment_Student VALUES('PT2-DBI', 'HE9', '2022-06-22', 7.1)
INSERT INTO Assessment_Student VALUES('FE-DBI', 'HE9', '2022-06-24', 6.7)
INSERT INTO Assessment_Student VALUES('Q1-PRO', 'HE10', '2022-06-20', 9)
INSERT INTO Assessment_Student VALUES('Q2-PRO', 'HE10', '2022-06-21', 4.2)

INSERT INTO Assessment_Student VALUES('PT1-PRO', 'HE10', '2022-06-22', 8)
INSERT INTO Assessment_Student VALUES('PT2-PRO', 'HE10', '2022-06-23', 9)
INSERT INTO Assessment_Student VALUES('FE-PRO', 'HE10', '2022-06-25', 8.2)
INSERT INTO Assessment_Student VALUES('Q1-NWC', 'HE10', '2022-06-20', 8.4)
INSERT INTO Assessment_Student VALUES('Q2-NWC', 'HE10', '2022-06-21', 7.1)
INSERT INTO Assessment_Student VALUES('PT1-NWC', 'HE10', '2022-06-22', 8.1)
INSERT INTO Assessment_Student VALUES('PT2-NWC', 'HE10', '2022-06-23', 8.4)
INSERT INTO Assessment_Student VALUES('FE-NWC', 'HE10', '2022-06-24', 9)
INSERT INTO Assessment_Student VALUES('Q1-MAD', 'HE10', '2022-06-21', 7.2)
INSERT INTO Assessment_Student VALUES('Q2-MAD', 'HE10', '2022-06-21', 8.1)
INSERT INTO Assessment_Student VALUES('PT1-MAD', 'HE10', '2022-06-22', 7)

```

```

INSERT INTO Assessment_Student VALUES('PT2-MAD','HE10','2022-06-23',9)
INSERT INTO Assessment_Student VALUES('FE-MAD','HE10','2022-06-25',8.4)
INSERT INTO Assessment_Student VALUES('Q1-DBI','HE10','2022-06-18',7)
INSERT INTO Assessment_Student VALUES('Q2-DBI','HE10','2022-06-19',8)
INSERT INTO Assessment_Student VALUES('PT1-DBI','HE10','2022-06-21',8.1)
INSERT INTO Assessment_Student VALUES('PT2-DBI','HE10','2022-06-22',7)
INSERT INTO Assessment_Student VALUES('FE-DBI','HE10','2022-06-24',8)

```

### --Assessment

```

INSERT INTO Assessment VALUES('Q1-DBI','Quiz1',0.1,'DBI')
INSERT INTO Assessment VALUES('Q2-DBI','Quiz2',0.1,'DBI')
INSERT INTO Assessment VALUES('PT1-DBI','Progress Test 1',0.2,'DBI')
INSERT INTO Assessment VALUES('PT2-DBI','Progress Test 2',0.2,'DBI')
INSERT INTO Assessment VALUES('FE-DBI','Final Exam',0.4,'DBI')
INSERT INTO Assessment VALUES('Q1-NWC','Quiz1',0.1,'DBI')
INSERT INTO Assessment VALUES('Q2-NWC','Quiz2',0.1,'DBI')
INSERT INTO Assessment VALUES('PT1-NWC','Progress Test 1',0.2,'DBI')
INSERT INTO Assessment VALUES('PT2-NWC','Progress Test 2',0.2,'DBI')
INSERT INTO Assessment VALUES('FE-NWC','Final Exam',0.4,'DBI')
INSERT INTO Assessment VALUES('Q1-PRO','Quiz1',0.1,'PRO')
INSERT INTO Assessment VALUES('Q2-PRO','Quiz2',0.1,'PRO')
INSERT INTO Assessment VALUES('PT1-PRO','Progress Test 1',0.2,'PRO')
INSERT INTO Assessment VALUES('PT2-PRO','Progress Test 2',0.2,'PRO')
INSERT INTO Assessment VALUES('FE-PRO','Final Exam',0.4,'PRO')
INSERT INTO Assessment VALUES('Q1-MAD','Quiz1',0.1,'MAD')
INSERT INTO Assessment VALUES('Q2-MAD','Quiz2',0.1,'MAD')
INSERT INTO Assessment VALUES('PT1-MAD','Progress Test 1',0.2,'MAD')

```



```
INSERT INTO Assessment VALUES('PT2-MAD', 'Progress Test
2', 0.2, 'MAD')
```

```
INSERT INTO Assessment VALUES('FE-MAD', 'Final Exam', 0.4, 'MAD')
```

```
--Subject
```

```
INSERT INTO Subject VALUES('PRO', 'Object-Oriented Programing')
```

```
INSERT INTO Subject VALUES('NWC', 'Computer Networking')
```

```
INSERT INTO Subject VALUES('MAD', 'Discrete Mathematics')
```

```
INSERT INTO Subject VALUES('DBI', 'Introduce to Databases')
```

```
-- Group
```

```
INSERT INTO [Group] VALUES('IA1604-Summer2022-PRO', 'Information
Assurance 1604', 'PRO', 'Summer-2022')
```

```
INSERT INTO [Group] VALUES('IA1604-Summer2022-NWC', 'Information
Assurance 1604', 'NWC', 'Summer-2022')
```

```
INSERT INTO [Group] VALUES('IA1604-Summer2022-MAD', 'Information
Assurance 1604', 'MAD', 'Summer-2022')
```

```
INSERT INTO [Group] VALUES('IA1604-Summer2022-DBI', 'Information
Assurance 1604', 'DBI', 'Summer-2022')
```

```
-- Enroll
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-PRO', 'HE1')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-PRO', 'HE2')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-PRO', 'HE3')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-PRO', 'HE4')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-PRO', 'HE5')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-PRO', 'HE6')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-PRO', 'HE7')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-PRO', 'HE8')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-PRO', 'HE9')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-PRO', 'HE10')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-NWC', 'HE1')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-NWC', 'HE2')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-NWC', 'HE3')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-NWC', 'HE4')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-NWC', 'HE5')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-NWC', 'HE6')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-NWC', 'HE7')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-NWC', 'HE8')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-NWC', 'HE9')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-NWC', 'HE10')
```

```
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-MAD', 'HE1')
```

```

INSERT INTO [Enroll] VALUES('IA1604-Summer2022-MAD', 'HE2')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-MAD', 'HE3')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-MAD', 'HE4')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-MAD', 'HE5')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-MAD', 'HE6')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-MAD', 'HE7')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-MAD', 'HE8')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-MAD', 'HE9')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-MAD', 'HE10')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-DBI', 'HE1')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-DBI', 'HE2')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-DBI', 'HE3')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-DBI', 'HE4')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-DBI', 'HE5')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-DBI', 'HE6')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-DBI', 'HE7')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-DBI', 'HE8')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-DBI', 'HE9')
INSERT INTO [Enroll] VALUES('IA1604-Summer2022-DBI', 'HE10')
--Lecturer
INSERT INTO [Lecturer] VALUES('KhuongPD', 'Phung Duy
Khuong', 'khuongpd@fpt.edu.vn')
INSERT INTO [Lecturer] VALUES('DucHM', 'Hoang Manh
Duc', 'duchm@fpt.edu.vn')
INSERT INTO [Lecturer] VALUES('TungH', 'Hoang
Tung', 'hoangtung@fpt.edu.vn')
INSERT INTO [Lecturer] VALUES('sonnt5', 'Ngo Tung
Son', 'sonnt5@fpt.edu.vn')
--Charge
INSERT INTO Charge VALUES('KhuongPD', 'IA1604-Summer2022-PRO')
INSERT INTO Charge VALUES('DucHM', 'IA1604-Summer2022-NWC')
INSERT INTO Charge VALUES('TungH', 'IA1604-Summer2022-MAD')
INSERT INTO Charge VALUES('sonnt5', 'IA1604-Summer2022-DBI')
-- Session
INSERT INTO Session VALUES('PRO-IA1604-1', '2002-06-01')
INSERT INTO Session VALUES('PRO-IA1604-2', '2002-06-02')
INSERT INTO Session VALUES('PRO-IA1604-3', '2002-06-03')
INSERT INTO Session VALUES('PRO-IA1604-4', '2002-06-04')
INSERT INTO Session VALUES('PRO-IA1604-5', '2002-06-05')

```

```
INSERT INTO Session VALUES('PRO-IA1604-6','2002-06-06')
INSERT INTO Session VALUES('PRO-IA1604-7','2002-06-07')
INSERT INTO Session VALUES('PRO-IA1604-8','2002-06-08')
INSERT INTO Session VALUES('PRO-IA1604-9','2002-06-09')
INSERT INTO Session VALUES('PRO-IA1604-10','2002-06-10')
INSERT INTO Session VALUES('PRO-IA1604-11','2002-06-11')
INSERT INTO Session VALUES('PRO-IA1604-12','2002-06-12')
INSERT INTO Session VALUES('PRO-IA1604-13','2002-06-13')
INSERT INTO Session VALUES('PRO-IA1604-14','2002-06-14')
INSERT INTO Session VALUES('PRO-IA1604-15','2002-06-15')
INSERT INTO Session VALUES('PRO-IA1604-16','2002-06-16')
INSERT INTO Session VALUES('PRO-IA1604-17','2002-06-17')
INSERT INTO Session VALUES('PRO-IA1604-18','2002-06-18')
INSERT INTO Session VALUES('PRO-IA1604-19','2002-06-19')
INSERT INTO Session VALUES('PRO-IA1604-20','2002-06-20')
INSERT INTO Session VALUES('PRO-IA1604-21','2002-06-21')
INSERT INTO Session VALUES('PRO-IA1604-22','2002-06-22')
INSERT INTO Session VALUES('PRO-IA1604-23','2002-06-23')
INSERT INTO Session VALUES('PRO-IA1604-24','2002-06-24')
INSERT INTO Session VALUES('PRO-IA1604-25','2002-06-25')
INSERT INTO Session VALUES('PRO-IA1604-26','2002-06-26')
INSERT INTO Session VALUES('PRO-IA1604-27','2002-06-27')
INSERT INTO Session VALUES('PRO-IA1604-28','2002-06-28')
INSERT INTO Session VALUES('PRO-IA1604-29','2002-06-29')
INSERT INTO Session VALUES('PRO-IA1604-30','2002-06-30')
INSERT INTO Session VALUES('NWC-IA1604-1','2002-06-01')
INSERT INTO Session VALUES('NWC-IA1604-2','2002-06-02')
INSERT INTO Session VALUES('NWC-IA1604-3','2002-06-03')
INSERT INTO Session VALUES('NWC-IA1604-4','2002-06-04')
INSERT INTO Session VALUES('NWC-IA1604-5','2002-06-05')

INSERT INTO Session VALUES('NWC-IA1604-6','2002-06-06')
INSERT INTO Session VALUES('NWC-IA1604-7','2002-06-07')
INSERT INTO Session VALUES('NWC-IA1604-8','2002-06-08')
INSERT INTO Session VALUES('NWC-IA1604-9','2002-06-09')
INSERT INTO Session VALUES('NWC-IA1604-10','2002-06-10')
INSERT INTO Session VALUES('NWC-IA1604-11','2002-06-11')
INSERT INTO Session VALUES('NWC-IA1604-12','2002-06-12')
```

```
INSERT INTO Session VALUES( 'NWC-IA1604-13' , '2002-06-13' )
INSERT INTO Session VALUES( 'NWC-IA1604-14' , '2002-06-14' )
INSERT INTO Session VALUES( 'NWC-IA1604-15' , '2002-06-15' )
INSERT INTO Session VALUES( 'NWC-IA1604-16' , '2002-06-16' )
INSERT INTO Session VALUES( 'NWC-IA1604-17' , '2002-06-17' )
INSERT INTO Session VALUES( 'NWC-IA1604-18' , '2002-06-18' )
INSERT INTO Session VALUES( 'NWC-IA1604-19' , '2002-06-19' )
INSERT INTO Session VALUES( 'NWC-IA1604-20' , '2002-06-20' )
INSERT INTO Session VALUES( 'NWC-IA1604-21' , '2002-06-21' )
INSERT INTO Session VALUES( 'NWC-IA1604-22' , '2002-06-22' )
INSERT INTO Session VALUES( 'NWC-IA1604-23' , '2002-06-23' )
INSERT INTO Session VALUES( 'NWC-IA1604-24' , '2002-06-24' )
INSERT INTO Session VALUES( 'NWC-IA1604-25' , '2002-06-25' )
INSERT INTO Session VALUES( 'NWC-IA1604-26' , '2002-06-26' )
INSERT INTO Session VALUES( 'NWC-IA1604-27' , '2002-06-27' )
INSERT INTO Session VALUES( 'NWC-IA1604-28' , '2002-06-28' )
INSERT INTO Session VALUES( 'NWC-IA1604-29' , '2002-06-29' )
INSERT INTO Session VALUES( 'NWC-IA1604-30' , '2002-06-30' )
INSERT INTO Session VALUES( 'MAD-IA1604-1' , '2002-06-01' )
INSERT INTO Session VALUES( 'MAD-IA1604-2' , '2002-06-02' )
INSERT INTO Session VALUES( 'MAD-IA1604-3' , '2002-06-03' )
INSERT INTO Session VALUES( 'MAD-IA1604-4' , '2002-06-04' )
INSERT INTO Session VALUES( 'MAD-IA1604-5' , '2002-06-05' )
INSERT INTO Session VALUES( 'MAD-IA1604-6' , '2002-06-06' )
INSERT INTO Session VALUES( 'MAD-IA1604-7' , '2002-06-07' )
INSERT INTO Session VALUES( 'MAD-IA1604-8' , '2002-06-08' )
INSERT INTO Session VALUES( 'MAD-IA1604-9' , '2002-06-09' )
INSERT INTO Session VALUES( 'MAD-IA1604-10' , '2002-06-10' )
INSERT INTO Session VALUES( 'MAD-IA1604-11' , '2002-06-11' )
INSERT INTO Session VALUES( 'MAD-IA1604-12' , '2002-06-12' )
INSERT INTO Session VALUES( 'MAD-IA1604-13' , '2002-06-13' )
INSERT INTO Session VALUES( 'MAD-IA1604-14' , '2002-06-14' )
INSERT INTO Session VALUES( 'MAD-IA1604-15' , '2002-06-15' )
INSERT INTO Session VALUES( 'MAD-IA1604-16' , '2002-06-16' )
INSERT INTO Session VALUES( 'MAD-IA1604-17' , '2002-06-17' )
INSERT INTO Session VALUES( 'MAD-IA1604-18' , '2002-06-18' )
INSERT INTO Session VALUES( 'MAD-IA1604-19' , '2002-06-19' )
INSERT INTO Session VALUES( 'MAD-IA1604-20' , '2002-06-20' )
```

```
INSERT INTO Session VALUES('MAD-IA1604-21','2002-06-21')
INSERT INTO Session VALUES('MAD-IA1604-22','2002-06-22')

INSERT INTO Session VALUES('MAD-IA1604-23','2002-06-23')
INSERT INTO Session VALUES('MAD-IA1604-24','2002-06-24')
INSERT INTO Session VALUES('MAD-IA1604-25','2002-06-25')
INSERT INTO Session VALUES('MAD-IA1604-26','2002-06-26')
INSERT INTO Session VALUES('MAD-IA1604-27','2002-06-27')
INSERT INTO Session VALUES('MAD-IA1604-28','2002-06-28')
INSERT INTO Session VALUES('MAD-IA1604-29','2002-06-29')
INSERT INTO Session VALUES('MAD-IA1604-30','2002-06-30')
INSERT INTO Session VALUES('DBI-IA1604-1','2002-06-01')
INSERT INTO Session VALUES('DBI-IA1604-2','2002-06-02')
INSERT INTO Session VALUES('DBI-IA1604-3','2002-06-03')
INSERT INTO Session VALUES('DBI-IA1604-4','2002-06-04')
INSERT INTO Session VALUES('DBI-IA1604-5','2002-06-05')
INSERT INTO Session VALUES('DBI-IA1604-6','2002-06-06')
INSERT INTO Session VALUES('DBI-IA1604-7','2002-06-07')
INSERT INTO Session VALUES('DBI-IA1604-8','2002-06-08')
INSERT INTO Session VALUES('DBI-IA1604-9','2002-06-09')
INSERT INTO Session VALUES('DBI-IA1604-10','2002-06-10')
INSERT INTO Session VALUES('DBI-IA1604-11','2002-06-11')
INSERT INTO Session VALUES('DBI-IA1604-12','2002-06-12')
INSERT INTO Session VALUES('DBI-IA1604-13','2002-06-13')
INSERT INTO Session VALUES('DBI-IA1604-14','2002-06-14')
INSERT INTO Session VALUES('DBI-IA1604-15','2002-06-15')
INSERT INTO Session VALUES('DBI-IA1604-16','2002-06-16')
INSERT INTO Session VALUES('DBI-IA1604-17','2002-06-17')
INSERT INTO Session VALUES('DBI-IA1604-18','2002-06-18')
INSERT INTO Session VALUES('DBI-IA1604-19','2002-06-19')
INSERT INTO Session VALUES('DBI-IA1604-20','2002-06-20')
INSERT INTO Session VALUES('DBI-IA1604-21','2002-06-21')
INSERT INTO Session VALUES('DBI-IA1604-22','2002-06-22')
INSERT INTO Session VALUES('DBI-IA1604-23','2002-06-23')
INSERT INTO Session VALUES('DBI-IA1604-24','2002-06-24')
INSERT INTO Session VALUES('DBI-IA1604-25','2002-06-25')
INSERT INTO Session VALUES('DBI-IA1604-26','2002-06-26')
INSERT INTO Session VALUES('DBI-IA1604-27','2002-06-27')
```

```

INSERT INTO Session VALUES('DBI-IA1604-28','2002-06-28')
INSERT INTO Session VALUES('DBI-IA1604-29','2002-06-29')
INSERT INTO Session VALUES('DBI-IA1604-30','2002-06-30')
--Student_Session
INSERT INTO Student_Session VALUES('HE1','PR80-IA1604-1','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-2','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-3','False')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-4','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-5','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-6','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-7','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-8','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-9','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-10','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-11','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-12','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-13','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-14','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-15','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-16','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-17','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-18','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-19','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-20','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-21','False')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-22','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-23','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-24','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-25','False')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-26','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-27','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-28','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-29','True')
INSERT INTO Student_Session VALUES('HE1','PRO-IA1604-30','True')
INSERT INTO Student_Session VALUES('HE1','NWC-IA1604-1','True')
INSERT INTO Student_Session VALUES('HE1','NWC-IA1604-2','True')
INSERT INTO Student_Session VALUES('HE1','NWC-IA1604-3','True')
INSERT INTO Student_Session VALUES('HE1','NWC-IA1604-4','True')
INSERT INTO Student_Session VALUES('HE1','NWC-IA1604-5','True')
INSERT INTO Student_Session VALUES('HE1','NWC-IA1604-6','True')
INSERT INTO Student_Session VALUES('HE1','NWC-IA1604-7','False')
INSERT INTO Student_Session VALUES('HE1','NWC-IA1604-8','True')
INSERT INTO Student_Session VALUES('HE1','NWC-IA1604-9','True')

```



[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]



[illegible]



[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]



[illegible]

[illegible]

[illegible]

[illegible]



```

INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-13', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-14', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-15', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-16', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-17', 'False')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-18', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-19', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-20', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-21', 'False')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-22', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-23', 'False')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-24', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-25', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-26', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-27', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-28', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-29', 'True')
INSERT INTO Student_Session VALUES('HE10', 'DBI-IA1604-30', 'True')
--Lecturer Session
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
1', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
2', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
3', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
4', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
5', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
6', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
7', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
8', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
9', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
10', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
11', 'True')
INSERT INTO Lecturer_Session VALUES('KhuongPD', 'PRO-IA1604-
12', 'True')

```

```
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-13','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-14','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-15','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-16','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-17','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-18','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-19','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-20','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-21','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-22','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-23','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-24','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-25','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-26','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-27','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-28','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-29','True')
INSERT INTO Lecturer_Session VALUES('KhuongPD','PRO-IA1604-30','True')
INSERT INTO Lecturer_Session VALUES('DuchM','NWC-IA1604-1','True')
INSERT INTO Lecturer_Session VALUES('DuchM','NWC-IA1604-2','True')
INSERT INTO Lecturer_Session VALUES('DuchM','NWC-IA1604-3','True')
INSERT INTO Lecturer_Session VALUES('DuchM','NWC-IA1604-4','True')
INSERT INTO Lecturer_Session VALUES('DuchM','NWC-IA1604-5','True')
INSERT INTO Lecturer_Session VALUES('DuchM','NWC-IA1604-6','True')
INSERT INTO Lecturer_Session VALUES('DuchM','NWC-IA1604-7','True')
INSERT INTO Lecturer_Session VALUES('DuchM','NWC-IA1604-8','True')
```

[illegible]

```

INSERT INTO Lecturer_Session VALUES( 'TungH', 'MAD-IA1604-23', 'True' )
INSERT INTO Lecturer_Session VALUES( 'TungH', 'MAD-IA1604-24', 'True' )
INSERT INTO Lecturer_Session VALUES( 'TungH', 'MAD-IA1604-25', 'True' )
INSERT INTO Lecturer_Session VALUES( 'TungH', 'MAD-IA1604-26', 'True' )
INSERT INTO Lecturer_Session VALUES( 'TungH', 'MAD-IA1604-27', 'True' )
INSERT INTO Lecturer_Session VALUES( 'TungH', 'MAD-IA1604-28', 'True' )
INSERT INTO Lecturer_Session VALUES( 'TungH', 'MAD-IA1604-29', 'True' )
INSERT INTO Lecturer_Session VALUES( 'TungH', 'MAD-IA1604-30', 'True' )

```

```

INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-1', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-2', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-3', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-4', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-5', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-6', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-7', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-8', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-9', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-10', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-11', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-12', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-13', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-14', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-15', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-16', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-17', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-18', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-19', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-20', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-21', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-22', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-23', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-24', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-25', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-26', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-27', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-28', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-29', 'True' )
INSERT INTO Lecturer_Session VALUES( 'sonnt5', 'DBI-IA1604-30', 'True' )

```

--Semester

```

INSERT INTO [Semester] VALUES( 'Summer-2022', '2022-05-01', '2022-08-30' )

```

## --Các câu lệnh--

### --1. Truy vấn điểm từng môn của sinh viên--

```
SELECT *, (Case WHEN tb1.Score >5 THEN 'PASS'
ELSE 'NOT PASS'
END) as [STATUS]
FROM (SELECT s.StudentID,
s.StudentName,a.SubjectID,SUM(ass.Score* a.Weight)
as [Score]
FROM Student as s
INNER JOIN Assessment_Student as ass ON s.StudentID
= ass.StudentID
INNER JOIN Assessment as a ON ass.AssessmentID =
a.AssessmentID
INNER JOIN [Subject] as su ON a.SubjectID =
su.SubjectID
GROUP BY s.StudentID,s.StudentName,a.SubjectID) as
tb1
```

	StudentID	StudentName	SubjectID	Score	STATUS
1	HE1	Nguyen Van Vuong	DBI	8.76	PASS
2	HE10	Nguyen Tuan Hiep	DBI	7.72	PASS
3	HE2	Nguyen Van Quang	DBI	7.03	PASS
4	HE3	Nguyen Van Duc	DBI	8.16	PASS
5	HE4	Nguyen Dinh Hoan	DBI	6.11	PASS
6	HE5	Nguyen Trong Hoang	DBI	7.34	PASS
7	HE6	Hoang Thanh Huy	DBI	8.19	PASS
8	HE7	Trieu Duc Thanh	DBI	7.88	PASS
9	HE8	Nguyen Doanh Thinh	DBI	8.39	PASS
10	HE9	Nguyen Tuan Anh	DBI	7.59	PASS
11	HE1	Nguyen Van Vuong	MAD	8.15	PASS
12	HE10	Nguyen Tuan Hiep	MAD	8.09	PASS
13	HE2	Nguyen Van Quang	MAD	8.17	PASS
14	HE3	Nguyen Van Duc	MAD	8.44	PASS
15	HE4	Nguyen Dinh Hoan	MAD	8.05	PASS

### --2. Tính GPA của các sinh viên--

```

SELECT tb4.StudentID,AVG(tb4.Score) as [GPA]
FROM (SELECT
tb3.StudentID,tb3.SubjectID,SUM(tb3.score *
tb3.weight) as [Score]
FROM (SELECT
tb2.StudentID,tb2.SubjectID,ISNULL(a1.score, 0)
as [score],at1.weight
FROM (SELECT StudentID, ass.SubjectID,
ass.AssessmentID
FROM (SELECT st.StudentID,su.SubjectID
FROM Student as st, Assessment as su GROUP BY
st.StudentID,su.SubjectID) as tb1 INNER JOIN
Assessment as ass ON tb1.SubjectID =
ass.SubjectID)
as tb2 INNER JOIN Assessment as at1 on
at1.SubjectID = tb2.SubjectID and
at1.AssessmentID = tb2.AssessmentID
LEFT JOIN Assessment_Student as a1 ON
tb2.AssessmentID = a1.AssessmentID AND
tb2.StudentID = a1.StudentID ) as tb3
GROUP BY tb3.StudentID,tb3.SubjectID) as tb4
GROUP BY tb4.StudentID

```

	StudentID	GPA
1	HE1	8.415
2	HE10	8.065
3	HE2	7.545
4	HE3	7.945
5	HE4	7.7275
6	HE5	7.3675
7	HE6	7.9525
8	HE7	7.85
9	HE8	7.845
10	HE9	7.68

### --3. Danh sách các môn học trong các kì--

```

SELECT
[Subject].SubjectID,[Subject].[Name],[Group].Semester,
[Group].GroupName,Semester.[Start],Semester.[End]
FROM [Subject]
INNER JOIN Assessment ON [Subject].SubjectID =
Assessment.SubjectID
INNER JOIN Assessment_Student ON
Assessment.AssessmentID =
Assessment_Student.AssessmentID
INNER JOIN Student ON Assessment_Student.StudentID
= Student.StudentID
INNER JOIN Enroll ON Student.StudentID =
Enroll.StudentID

```

```

INNER JOIN [Group] ON
Enroll.GroupID=[Group].GroupID
INNER JOIN Semester ON [Group].Semester =
Semester.Semester
GROUP BY
[Subject].SubjectID,[Subject].[Name],[Group].Semest
er,[Group].GroupName,
Semester.[Start],Semester.[End]

```

	SubjectID	Name	Semester	GroupName	Start	End
1	DBI	Introduce to Databases	Summer-2022	IA1604	2022-05-01	2022-08-30
2	MAD	Discrete Mathematics	Summer-2022	IA1604	2022-05-01	2022-08-30
3	NWC	Computer Networking	Summer-2022	IA1604	2022-05-01	2022-08-30
4	PRO	Object-Oriented Programing	Summer-2022	IA1604	2022-05-01	2022-08-30

--4. Điểm thành phần của từng môn học, Ví dụ môn DBI của sinh viên HE1--

```

SELECT ass.AssessmentID as [Grade Category], a.[Name]
as [Grade Item],CAST(a.[Weight] as nvarchar) + '%' as
[Weight], ass.Score as [Value] , ass.Date
FROM Assessment as a
INNER JOIN Assessment_Student ass ON ass.AssessmentID
= a.AssessmentID
WHERE ass.StudentID = 'HE1' AND a.SubjectID = 'DBI'

```



	Grade Category	Grade Item	Weight	Value	Date
1	Q1-DBI	Quiz1	0.1%	9.4	2022-06-18
2	Q2-DBI	Quiz2	0.1%	8.2	2022-06-19
3	PT1-DBI	Progress Test 1	0.2%	9.1	2022-06-21
4	PT2-DBI	Progress Test 2	0.2%	9.1	2022-06-22
5	FE-DBI	Final Exam	0.4%	8.4	2022-06-24

--5. Hiển thị danh sách sinh viên của một lớp học sắp xếp theo tên sinh viên--

SELECT

s.StudentID,s.StudentName,s.DateOfBirth,g.GroupID FROM Student as s

INNER JOIN Enroll as e ON s.StudentID = e.StudentID

INNER JOIN [Group] as g On e.GroupID = g.GroupID

WHERE g.GroupID = 'IA1604-Summer2022-PRO'

ORDER BY StudentName

	StudentID	StudentName	DateOfBirth	GroupID
1	HE6	Hoang Thanh Huy	2002-07-05	IA1604-Summer2022-PRO
2	HE4	Nguyen Dinh Hoan	2002-10-21	IA1604-Summer2022-PRO
3	HE8	Nguyen Doanh Thinh	2002-08-18	IA1604-Summer2022-PRO
4	HE5	Nguyen Trong Hoang	2002-06-12	IA1604-Summer2022-PRO
5	HE9	Nguyen Tuan Anh	2002-01-31	IA1604-Summer2022-PRO
6	HE10	Nguyen Tuan Hiep	2002-02-22	IA1604-Summer2022-PRO
7	HE3	Nguyen Van Duc	2002-04-02	IA1604-Summer2022-PRO
8	HE2	Nguyen Van Quang	2002-03-21	IA1604-Summer2022-PRO
9	HE1	Nguyen Van Vuong	2002-02-28	IA1604-Summer2022-PRO
10	HE7	Trieu Duc Thanh	2002-07-03	IA1604-Summer2022-PRO

--6. Danh sách các môn học của một giáo viên, Ví dụ: Lecturer: KhuongPD--

```
SELECT
l.LecturerID,l.LecturerName,g.GroupID,g.SubjectID
FROM [Group] as g
INNER JOIN Charge as c ON g.GroupID =
c.GroupID
INNER JOIN Lecturer as l on c.LecturerID =
l.LecturerID
WHERE l.LecturerID = 'KhuongPD'
```

	LecturerID	LecturerName	GroupID	SubjectID
1	KhuongPD	Phung Duy Khuong	IA1604-Summer2022-PRO	PRO

--7. Kiểm tra điều kiện điểm danh của sinh viên theo mã số sinh viên,

VD: Sinh viên có mã số HE2--

```
SELECT
tb1.StudentID,tb1.StudentName,tb1.[Name],(CASE
WHEN tb1.Attend >=24 THEN 'PASS'
ELSE 'NOT PASS'
END) as [Condition]
FROM (SELECT
s.StudentID,s.StudentName,se.[Name],COUNT(ss.[Status]) as [Attend]
FROM Student as s
INNER JOIN [Student_Session] as ss ON
s.StudentID=ss.StudentID
```

```

INNER JOIN [Session] as se ON ss.SessionID =
se.SessionID
WHERE ss.[Status] = 1
GROUP BY s.StudentID,s.StudentName,se.[Name]) as
tb1
WHERE tb1.StudentID = 'HE2'

```

	StudentID	StudentName	Name	Condition
1	HE2	Nguyen Van Quang	DBI	PASS
2	HE2	Nguyen Van Quang	MAD	PASS
3	HE2	Nguyen Van Quang	NWC	PASS
4	HE2	Nguyen Van Quang	PRO	PASS

--8. Truy van su dung INNER JOIN: Danh sach lop va giao vien cua lop do—

```

SELECT
g.GroupID,g.GroupName,g.SubjectID,g.Semester,l.Lecture
rID,l.LecturerName,l.LecturerEmail
FROM [Group] as g
INNER JOIN Charge as c ON g.GroupID = c.GroupID
INNER JOIN Lecturer as l ON c.LecturerID =
l.LecturerID

```

	GroupID	GroupName	SubjectID	Semester	LecturerID	LecturerName	LecturerEmail
1	IA1604-Summer2022-PRO	IA1604	PRO	Summer-2022	KhuongPD	Phung Duy Khuong	khuongpd@fpt.edu.vn
2	IA1604-Summer2022-NWC	IA1604	NWC	Summer-2022	DucHM	Hoang Manh Duc	duchm@fpt.edu.vn
3	IA1604-Summer2022-MAD	IA1604	MAD	Summer-2022	TungH	Hoang Tung	hoangtung@fpt.edu.vn
4	IA1604-Summer2022-DBI	IA1604	DBI	Summer-2022	sonnt5	Ngo Tung Son	sonnt5@fpt.edu.vn

## --9.Query su dung Function: Dem so mon hoc cua ki hoc: --

```
SELECT s.Semester,COUNT(g.SubjectID) as [Number of  
Subjects]  
FROM Semester as s  
INNER JOIN [Group] as g ON s.Semester = g.Semester  
GROUP BY s.Semester
```

	Semester	Number of Subjects
1	Summer-2022	4

## --10. Query using HAVING clause and GROUP BY—

```
SELECT l.LecturerID,l.LecturerName,g.SubjectID,  
COUNT(s.StudentID) as [Number of Students]  
FROM Student as s  
INNER JOIN Enroll as e ON s.StudentID = e.StudentID  
INNER JOIN [Group] as g ON e.GroupID = g.GroupID  
INNER JOIN Charge as c ON g.GroupID = c.GroupID  
INNER JOIN Lecturer as l On c.LecturerID = l.LecturerID  
GROUP BY l.LecturerID,l.LecturerName,g.SubjectID  
HAVING l.LecturerID = 'KhuongPD'
```

	LecturerID	LecturerName	SubjectID	Number of Students
1	KhuongPD	Phung Duy Khuong	PRO	10

## --11. Query uses partial matching in the WHERE clause --

```
SELECT *
```

FROM Student WHERE StudentName LIKE '%V%'

	StudentID	StudentName	Gender	DateOfBirth
1	HE1	Nguyen Van Vuong	1	2002-02-28
2	HE2	Nguyen Van Quang	1	2002-03-21
3	HE3	Nguyen Van Duc	1	2002-04-02

Cơ sở dữ liệu đánh giá và truy xuất thông tin quản lí sinh viên được xây dựng để đáp ứng các yêu cầu: thêm, sửa, xóa, truy xuất và dễ dàng theo dõi hệ thống điểm của từng sinh viên từng lớp. Tuy nhiên, hệ thống điểm của tôi xây dựng nên vẫn chưa thực sự khoa học và có thể có thiếu sót. Tôi xin chân thành cảm ơn vì sự theo dõi về hệ thống quản lí điểm FLM.

Người xây dựng hệ thống

Vuong

Nguyễn Văn Vương