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| Decorative | | | | |
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| ASsignment Report | | |
| Tran Hai Ha | | Hathhe161777@fpt.edu.vn |

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| Decorative | | | | |
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|  | Student Grading management Sub-System   1. Mô tả khái quát về cơ sở dữ liệu 2. ERD 3. Quá trình thiết kế | |  | |

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| Khái quát về dữ liệuAssessment   Bảng đánh giá về môn học của sinh viên   * Category: Loại bài * Type: Kiểu bài * Part: số phần tương ứng mỗi bài * Weight: Số% của bài đó chiếm trong tổng số điểm * Completion Criteria: Điều kiện hoàn thành môn * Duration: Thời lượng hoàn thành bài * Grading Guide: Cách thức chấm điểm * Note: Chú thích bài  Semester   Bảng tổng quan về 1 kì học của sinh viên   * Subject Code: Mã môn học * Subject Name: Tên môn học * Semester: Kì học * Start Date: Thời điểm bắt đầu môn học * End Date: Thời điểm kết thúc môn học * Average Mark: Điểm trung bình môn * Status: Trạng thái môn học | |
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| Subject | |  |

Bảng điểm môn học của 1 sinh viên

* Grade Category: Phân loại điểm
* Weight: Số % chiếm trong tổng số điểm
* Value: Số điểm đạt được
* Comment: Ghi chú thêm

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| Enity Relationship Diagram(ERD)     Phân tích ERD   1. (table)Students  * Sid: Mã số sinh viên (PK) * FirstName, LastName: Họ và tên sinh viên * Email: email của sinh viên * Date of birth: ngày tháng năm sinh của sinh viên * Gender: giới tính      1. (table) Lecture  * Lid: số thứ tự giáo viên * Lname: tên giáo viên (PK)      1. (table) Group\_Student  * id: Số thứ tự sinh viên (PK) * Gname: Tên lớp của sinh viên * MajorCode: mã ngành học * Sid: tương ứng Sid (Students) (FK) * Lname: tương ứng Lname (Lecture) (FK)      1. (table) Subject  * Sid: tương ứng Sid (Students) (FK) * SubjectCode: Mã môn học * SubjectName: Tên môn học (PK)      1. (table) Subject\_Result  * Id: Số thứ tự (PK) * Sid: tương ứng Sid (Students) (FK) * SubjectCode: Mã môn học * SubjectName: tương ứng SubjectName (Subject) (FK) * GradeCategory: Phân loại đầu điểm * Value: Điểm * Comment: Chú thích      1. (table) Semester  * SubjectCode: Mã môn học (PK) * SubjectName: Tên môn học * Term: Kì học      1. (table) Semester\_Result  * Sid: tương ứng Sid (Students) (FK) * SubjectCode: tương ứng SubjectCode (Semester) (FK) * Id: Số thứ tự (PK) * StartDate, EndDate: thời điểm bắt đầu và kết thúc môn * AverageMark: Điểm trung bình môn * Status: Trạng thái của sinh viên      1. (table) Assessment  * Category: Loại bài (PK) * Part: Phần trong bài * Weight: Số% chiếm trong tổng số điểm * Completion Criteria: Điều kiện bài * Grading Guide: Cách thức chấm bài * Note: Chú thích      1. (table) Assessment\_Student  * Id: số thứ tự (PK) * Sid: tương ứng với Sid (Students) (FK) * Category: tương ứng với Category (Assessment) (FK) * SubjectCode: tương ứng với SubjectCode (Semester) (FK) * Type: Loại bài * Duration: Thời lượng hoàn thành bài * Question Type: Loại câu hỏi trong bài * No Question: Số lượng câu hỏi trong bài | |

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| Quá trình thiết kế Database  1. Create Table   -- Create Table  Create Table Student (  [sid] [Varchar](8) Not Null,  [FirstName] [varchar](150) Not Null,  [LastName] [varchar](150) Not Null,  [Email] [varchar](150) Not null,  [Date of Birth] Date Not Null Check(YEAR(GETDATE()) - YEAR([Date of Birth]) >= 18),  [Gender] [Varchar](10) Not Null check(Gender in ('Female','Male'))  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) ON [PRIMARY]  ) ON [PRIMARY]  GO  Drop Table Student  Create Table Lecture (  [id] [Int] Not null ,  [name] [varchar](150) Not null,  Constraint PK\_Lecture Primary Key Clustered  (  [name] ASC  ) With(PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]  ) ON [PRIMARY]  GO  Drop Table Lecture  Create Table Group\_Student (  [id] [Int] Not null,  [Gname] [Varchar](6) Not null,  [MajorCode] [varchar](150) Not null,  [Sid] [Varchar](8) Not null,  [Lname] [varchar](150) Not null  Constraint PK\_GroupStudent Primary Key Clustered  (  [id] ASC  )With (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]  ) ON [PRIMARY]  Go  Drop Table Group\_Student    Create Table Semester (  [SubjectCode] [varchar](150) Not null,  [SubjectName] [varchar](150) Not null,  [Term] [varchar](150) Not null  Constraint PK\_Semester Primary Key Clustered  (  [SubjectCode] ASC  ) With(PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]  ) ON [PRIMARY]  GO  Drop Table Semester  Create Table Semester\_Result (  [id] [int] Not null,  [Sid] [varchar](8) Not null,  [SubjectCode] [varchar](150) Not null,  [StartDate] [Date] Not null,  [EndDate] [Date] Not null,  [Average Mark] [Float],  [Status] [varchar](20) Not null,  Constraint PK\_SemesterResult Primary Key Clustered  (  [id] ASC  ) With(PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]  ) ON [PRIMARY]  GO  Drop Table Semester\_Result  Create Table [Subject](  [Sid] [varchar](8) Not null,  [SubjectCode] [varchar](150) Not null,  [SubjectName] [varchar](150) Not null  Constraint PK\_Subject Primary Key Clustered  (  [SubjectName] ASC  ) With(PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]  ) ON [PRIMARY]  GO  Drop Table [Subject]  Create Table Subject\_Result (  [id] [int] Not null,  [Sid] [varchar](8) Not null,  [SubjectCode] [varchar](150) Not null,  [SubjectName] [varchar](150) Not null,  [GradeCategory] [varchar](150) Not null,  [Weight] [varchar](150) Not null,  [Value] Float,  [Comment] [varchar](150)  Constraint PK\_SubjectResult Primary Key Clustered  (  [id] ASC  ) With(PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]  ) ON [PRIMARY]  GO  Drop Table Subject\_Result  Create Table Assessment (  [Category] [varchar](150) Not null,  [Part] [Int] Not null,  [Weight] [varchar](150) Not null,  [Completion Criteria] [varchar](150) Not null,  [Grading Guide] [varchar](150) Not null,  [Note] [varchar](150)  Constraint PK\_Assessment Primary Key Clustered  (  [Category] ASC  ) With(PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]  ) ON [PRIMARY]  GO  Drop Table Assessment  Create Table Assessment\_Student (  [id] [int] Not null,  [Sid] [varchar](8) Not null,  [SubjectCode] [varchar](150) Not null,  [Category] [varchar](150) Not null,  [Type] [varchar](150) Not null,  [Duration] [varchar](150) Not null,  [Question Type] [varchar](150) Not null,  [No Question] [int]  Constraint PK\_Assessment\_Student Primary Key Clustered  (  [id] ASC  )With(PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]  ) ON [PRIMARY]  GO  Drop Table Assessment\_Student | |

1. Insert Data

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16001', N'Nguyen', N'Hoang Anh',N'anhnhhe16001@fpt.edu.vn',Cast(N'2002-12-06' as Date),N'Female')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16002', N'Nguyen', N'Anh Tai',N'tainahe16002@fpt.edu.vn',Cast(N'2002-11-12' as Date),N'Female')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16003', N'Nguyen', N'Minh Anh',N'anhnmhe16003@fpt.edu.vn',Cast(N'2002-09-25' as Date),N'Male')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16004', N'Pham', N'Minh Duc',N'ducpmhe16004@fpt.edu.vn',Cast(N'2002-04-06' as Date),N'Female')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16005', N'Nguyen', N'Van Anh',N'anhnvhe16005@fpt.edu.vn',Cast(N'2002-05-28' as Date),N'Male')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16006', N'Duong', N'Hoang Long',N'longdhhe16006@fpt.edu.vn',Cast(N'2002-11-11' as Date),N'Female')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16007', N'Tran', N'Van Su ',N'sutvhe16007@fpt.edu.vn',Cast(N'2002-03-15' as Date),N'Female')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16008', N'Vo', N'Viet Manh',N'manhvvhe16008@fpt.edu.vn',Cast(N'2002-10-06' as Date),N'Female')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16009', N'Nguyen', N'Ngoc Anh',N'anhnnhe16009@fpt.edu.vn',Cast(N'2002-06-04' as Date),N'Male')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16010', N'Nguyen', N'Quynh Thu',N'thunqhe16010@fpt.edu.vn',Cast(N'2002-10-29' as Date),N'Male')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16011', N'Vu', N'Duc Anh',N'anhvdhe16011@fpt.edu.vn',Cast(N'2002-11-23' as Date),N'Female')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16012', N'Pham', N'Tuan Son',N'sonpthe16012@fpt.edu.vn',Cast(N'2002-10-10' as Date),N'Female')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16013', N'Do', N'Huong Linh',N'linhdhhe16013@fpt.edu.vn',Cast(N'2002-09-04' as Date),N'Male')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16014', N'Duong', N'Tung Lam',N'lamdthe16014@fpt.edu.vn',Cast(N'2002-06-23' as Date),N'Female')

Go

Insert Student([sid],[FirstName],[LastName],[Email],[Date of Birth],[Gender]) Values (N'HE16015', N'Ngo', N'Tung Son',N'sonnthe16015@fpt.edu.vn',Cast(N'2002-02-25' as Date),N'Female')

Go

Insert Lecture([id],[name]) Values (1, 'Nguyen Van Hoang')

Go

Insert Lecture([id],[name]) Values (2, 'Tran Van An')

Go

Insert Lecture([id],[name]) Values (3, 'Nguyen Phuong Chi')

Go

Insert Lecture([id],[name]) Values (4, 'Hoang Manh Duc')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (1,N'SE1601',N'SE',N'HE16001',N'Tran Van An')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (2,N'SE1601',N'SE',N'HE16003',N'Tran Van An')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (3,N'AI1603',N'AI',N'HE16004',N'Nguyen Van Hoang')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (4,N'SE1602',N'SE',N'HE16012',N'Nguyen Phuong Chi')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (5,N'SE1602',N'SE',N'HE16005',N'Nguyen Phuong Chi')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (6,N'AI1603',N'AI',N'HE16009',N'Nguyen Van Hoang')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (7,N'IA1604',N'IA',N'HE16010',N'Hoang Manh Duc')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (8,N'IA1604',N'IA',N'HE16015',N'Hoang Manh Duc')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (9,N'SE1602',N'SE',N'HE16011',N'Nguyen Phuong Chi')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (10,N'AI1603',N'AI',N'HE16008',N'Nguyen Van Hoang')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (11,N'SE1602',N'SE',N'HE16002',N'Nguyen Phuong Chi')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (12,N'SE1601',N'SE',N'HE16006',N'Tran Van An')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (13,N'IA1604',N'IA',N'HE16013',N'Hoang Manh Duc')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (14,N'AI1603',N'AI',N'HE16014',N'Nguyen Van Hoang')

Go

Insert Group\_Student([id],[Gname],[MajorCode],[Sid],[Lname]) Values (15,N'SE1601',N'SE',N'HE16007',N'Tran Van An')

Go

Insert Semester([SubjectCode],[SubjectName],[Term]) Values (N'PRF192',N'Programming Fundamentals',N'1')

Go

Insert Semester([SubjectCode],[SubjectName],[Term]) Values (N'CEA201',N'Computer Organization and Architecture',N'1')

Go

Insert Semester([SubjectCode],[SubjectName],[Term]) Values (N'PRO192',N'Object-Oriented Programming',N'2')

Go

Insert Semester([SubjectCode],[SubjectName],[Term]) Values (N'NWC204',N'Computer Networking',N'2')

Go

Insert Semester([SubjectCode],[SubjectName],[Term]) Values (N'LAB211',N'OPP with Java Lab',N'3')

Go

Insert Semester([SubjectCode],[SubjectName],[Term]) Values (N'IAO202',N'Introduction to Information Assurance',N'3')

Go

Insert Semester\_Result([id],[Sid],[SubjectCode],[StartDate],[EndDate],[Average Mark],[Status]) Values (1,N'HE16003',N'PRF192',Cast(N'2021-09-06' as Date),Cast(N'2021-11-10' as Date),5,N'Passed')

Go

Insert Semester\_Result([id],[Sid],[SubjectCode],[StartDate],[EndDate],[Average Mark],[Status]) Values (2,N'HE16006',N'CEA201',Cast(N'2021-09-06' as Date),Cast(N'2021-11-12' as Date),7,N'Passed')

Go

Insert Semester\_Result([id],[Sid],[SubjectCode],[StartDate],[EndDate],[Average Mark],[Status]) Values (3,N'HE16005',N'PRF192',Cast(N'2021-09-06' as Date),Cast(N'2021-11-10' as Date),4.9,N'Not Passed')

Go

Insert Semester\_Result([id],[Sid],[SubjectCode],[StartDate],[EndDate],[Average Mark],[Status]) Values (4,N'HE16008',N'PRO192',Cast(N'2022-01-05' as Date),Cast(N'2022-03-25' as Date),4,N'Not Passed')

Go

Insert Semester\_Result([id],[Sid],[SubjectCode],[StartDate],[EndDate],[Average Mark],[Status]) Values (5,N'HE16013',N'NWC204',Cast(N'2022-01-05' as Date),Cast(N'2022-03-25' as Date),8,N'Passed')

Go

Insert Semester\_Result([id],[Sid],[SubjectCode],[StartDate],[EndDate],[Average Mark],[Status]) Values (6,N'HE16010',N'NWC204',Cast(N'2022-01-05' as Date),Cast(N'2022-03-25' as Date),NUll,N'Attendance Fail')

Go

Insert Semester\_Result([id],[Sid],[SubjectCode],[StartDate],[EndDate],[Average Mark],[Status]) Values (7,N'HE16012',N'LAB211',Cast(N'2022-05-09' as Date),Cast(N'2022-07-22' as Date),750,N'Passed')

Go

Insert Semester\_Result([id],[Sid],[SubjectCode],[StartDate],[EndDate],[Average Mark],[Status]) Values (8,N'HE16010',N'IAO202',Cast(N'2022-05-09' as Date),Cast(N'2021-07-22' as Date),NULL,N'Attendance Fail')

Go

Insert Semester\_Result([id],[Sid],[SubjectCode],[StartDate],[EndDate],[Average Mark],[Status]) Values (9,N'HE16008',N'LAB211',Cast(N'2022-05-09' as Date),Cast(N'2021-07-22' as Date),200,N'Not Passed')

Go

Insert Semester\_Result([id],[Sid],[SubjectCode],[StartDate],[EndDate],[Average Mark],[Status]) Values (10,N'HE16013',N'IAO202',Cast(N'2022-05-09' as Date),Cast(N'2021-07-22' as Date),9,N'Passed')

Go

Insert [Subject] ([Sid],[SubjectCode],[SubjectName]) Values (N'HE16003',N'PRF192',N'Programming Fundamentals')

GO

Insert [Subject] ([Sid],[SubjectCode],[SubjectName]) Values (N'HE16006',N'CEA201',N'Computer Organization and Architecture')

GO

Insert [Subject] ([Sid],[SubjectCode],[SubjectName]) Values (N'HE16008',N'PRO192',N'Object-Oriented Programming')

GO

Insert [Subject] ([Sid],[SubjectCode],[SubjectName]) Values (N'HE16010',N'NWC204',N'Computer Networking')

GO

Insert [Subject] ([Sid],[SubjectCode],[SubjectName]) Values (N'HE16012',N'LAB211',N'OPP with Java Lab')

GO

Insert [Subject] ([Sid],[SubjectCode],[SubjectName]) Values (N'HE16013',N'IAO202',N'Introduction to Information Assurance')

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (1,N'HE16003',N'PRF192',N'Programming Fundamentals','Assignment',N'10.0%',6,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (2,N'HE16003',N'PRF192',N'Programming Fundamentals','Progress Test',N'10.0%',5.2,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (3,N'HE16003',N'PRF192',N'Programming Fundamentals','Workshop',N'10.0%',5.3,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (4,N'HE16003',N'PRF192',N'Programming Fundamentals','Practical Exam',N'40.0%',4,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (5,N'HE16003',N'PRF192',N'Programming Fundamentals','Final Exam',N'30.0%',6.5,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (6,N'HE16003',N'PRF192',N'Programming Fundamentals','Final Exam Resit',N'30.0%',8,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (7,N'HE16006',N'CEA201',N'Computer Organization and Architecture','Assignment',N'30.0%',5.9,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (8,N'HE16006',N'CEA201',N'Computer Organization and Architecture','Exercise',N'30.0%',7.8,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (9,N'HE16006',N'CEA201',N'Computer Organization and Architecture','Final Exam',N'40.0%',7.4,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (10,N'HE16006',N'CEA201',N'Computer Organization and Architecture','Final Exam Resit',N'40.0%',8.4,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (11,N'HE16008',N'PRO192',N'Object-Oriented Programming','LAB',N'10.0%',6.7,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (12,N'HE16008',N'PRO192',N'Object-Oriented Programming','Progress Test',N'10.0%',7.3,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (13,N'HE16008',N'PRO192',N'Object-Oriented Programming','Assignment',N'20.0%',6.8,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (14,N'HE16008',N'PRO192',N'Object-Oriented Programming','Practical Exam',N'30.0%',5,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (15,N'HE16008',N'PRO192',N'Object-Oriented Programming','Final Exam',N'30.0%',5.4,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (16,N'HE16008',N'PRO192',N'Object-Oriented Programming','Final Exam Resit',N'30.0%',6.4,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (17,N'HE16010',N'NWC204',N'Computer Networking','Practicipation',N'10.0%',10,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (18,N'HE16010',N'NWC204',N'Computer Networking','Lab Sessions',N'30.0%',9.4,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (19,N'HE16010',N'NWC204',N'Computer Networking','Progress Test',N'30.0%',8.2,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (20,N'HE16010',N'NWC204',N'Computer Networking','Final Exam',N'30.0%',7.6,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (21,N'HE16010',N'NWC204',N'Computer Networking','Final Exam Resit',N'10.0%',9.6,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (22,N'HE16013',N'IAO202',N'Introduction to Information Assurance','Practicipation',N'10.0%',9.2,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (23,N'HE16013',N'IAO202',N'Introduction to Information Assurance','Progress Test',N'20.0%',8.6,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (24,N'HE16013',N'IAO202',N'Introduction to Information Assurance','Lab',N'40.0%',8.8,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (25,N'HE16013',N'IAO202',N'Introduction to Information Assurance','Final Exam',N'30.0%',9.4,NULL)

GO

Insert Subject\_Result ([id],[Sid],[SubjectCode],[SubjectName],[GradeCategory],[Weight],[Value],[Comment]) Values (26,N'HE16013',N'IAO202',N'Introduction to Information Assurance','Final Exam Resit',N'30.0%',NULL,NULL)

GO

Insert Assessment([Category],[Part],[Weight],[Completion Criteria],[Grading Guide],[Note]) Values (N'Progress Test',2,N'10.0%',N'>0',N'By instructor using computer',N'Presented in the Course Implementation Plan approved by director')

GO

Insert Assessment([Category],[Part],[Weight],[Completion Criteria],[Grading Guide],[Note]) Values (N'Assignment',1,N'20.0%',N'>0',N'Preapared at home and present in class',N'40% Design,20% Implementation,40% Presentation of Project')

GO

Insert Assessment([Category],[Part],[Weight],[Completion Criteria],[Grading Guide],[Note]) Values (N'Labs',5,N'15.0%',N'>0',N'By instructor',N'Can continue at home')

GO

Insert Assessment([Category],[Part],[Weight],[Completion Criteria],[Grading Guide],[Note]) Values (N'Practical Exam',1,N'25.0%',N'>0',N'By exam board and department',N'Upload in CMS advance')

GO

Insert Assessment([Category],[Part],[Weight],[Completion Criteria],[Grading Guide],[Note]) Values (N'Final Exam',1,N'30.0%',N'5',N'Focus in the items in chapter',NULL)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (1,N'HE16010',N'NWC204',N'Progess Test',N'Quiz',N'30 min',N'Multiple choice',15)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (2,N'HE16010',N'NWC204',N'Labs',N'on-going',N'in lab sessions',N'practical exercises',NULL)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (3,N'HE16010',N'NWC204',N'Final Exam',N'final exam',N'60 min',N'Multiple choice',50)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (4,N'HE16003',N'PRF192',N'Assignment',N'on-going',N'at home',N'Design,Presentation',NULL)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (5,N'HE16003',N'PRF192',N'Progess Test',N'Quiz',N'30 min',N'Multiple choice',10)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (6,N'HE16003',N'PRF192',N'Practical Exam',N'practical exam',N'85 min',N'Preferable',10)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (7,N'HE16003',N'PRF192',N'Final Exam',N'final exam',N'60 min',N'Multiple choice',50)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (8,N'HE16006',N'CEA201',N'Assignment',N'on-going',N'at home',N'Design',7)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (9,N'HE16006',N'CEA201',N'Progess Test',N'Quiz',N'50 min',N'Multiple choice',40)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (10,N'HE16006',N'CEA201',N'Final Exam',N'final exam',N'60 min',N'Multiple choice',50)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (11,N'HE16013',N'IAO202',N'Progress Test',N'Quiz',N'30 min',N'Multiple choice',15)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (12,N'HE16013',N'IAO202',N'Labs',N'on-going',N'in lab sessions',N'practical exercise',NULL)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (13,N'HE16013',N'IAO202',N'Final Exam',N'final exam',N'60 min',N'Multiple choice',50)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (14,N'HE16008',N'PRO192',N'Progress Test',N'Quiz',N'60 min',N'Multiple choice',100)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (15,N'HE16008',N'PRO192',N'Labs',N'on-going',N'in lab sessions',N'practical exercise',NULL)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (16,N'HE16008',N'PRO192',N'Assignment',N'on-going',N'at home',N'Design',5)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (17,N'HE16008',N'PRO192',N'Practical Exam',N'practical exam',N'85 min',N'Preferable',4)

GO

Insert Assessment\_Student([id],[Sid],[SubjectCode],[Category],[Type],[Duration],[Question Type],[No Question]) Values (18,N'HE16008',N'PRO192',N'Final Exam',N'final exam',N'60 min',N'Multiple choice',50)

GO

1. References

Alter Table Group\_Student With Check ADD Constraint FK\_Group\_Student\_Student Foreign Key ([Sid]) References Student([sid])

GO

Alter Table Group\_Student Check Constraint FK\_Group\_Student\_Student

Go

Alter Table Group\_Student With Check ADD Constraint FK\_Group\_Student\_Lecture Foreign Key([Lname]) References Lecture([name])

GO

Alter Table Group\_Student Check Constraint FK\_Group\_Student\_Lecture

Alter Table Semester\_Result With Check Add Constraint FK\_Semester\_Result\_Student Foreign Key([Sid]) References Student([sid])

GO

Alter Table Semester\_Result Check Constraint FK\_Semester\_Result\_Student

Alter Table Semester\_Result With Check Add Constraint FK\_Semester\_Result\_Semester Foreign Key([SubjectCode]) References Semester([SubjectCode])

GO

Alter Table Semester\_Result Check Constraint FK\_Semester\_Result\_Semester

Alter Table [Subject] With Check Add Constraint FK\_Subject\_Student Foreign Key([Sid]) References Student([sid])

Go

Alter Table [Subject] Check Constraint FK\_Subject\_Student

Alter Table Subject\_Result With Check Add Constraint FK\_Subject\_Result\_Student Foreign Key([Sid]) References Student([sid])

GO

Alter Table Subject\_Result Check Constraint FK\_Subject\_Result\_Student

Alter Table Subject\_Result With Check Add Constraint FK\_Subject\_Result\_Subject Foreign Key([SubjectName]) References [Subject]([SubjectName])

GO

Alter Table Subject\_Result Check Constraint FK\_Subject\_Result\_Subject

Alter Table Assessment\_Student With Check Add Constraint FK\_Assessment\_Student\_Student Foreign Key ([Sid]) References Student([sid])

GO

Alter Table Assessment\_Student Check Constraint FK\_Assessment\_Student\_Student

Alter Table Assessment\_Student With Check Add Constraint FK\_Assessment\_Student\_Semester Foreign Key ([SubjectCode]) References Semester([SubjectCode])

GO

Alter Table Assessment\_Student Check Constraint FK\_Assessment\_Student\_Semester

Alter Table Assessment\_Student With NoCheck Add Constraint FK\_Assessment\_Student\_Assessment Foreign Key ([Category]) References Assessment([Category])

GO

Alter Table Assessment\_Student Check Constraint FK\_Assessment\_Student\_Assessme

1. Query

* Order By

Select FirstName +' '+LastName as 'Full Name'

from Student

Order By [Full Name] ASC

* Inner Joins

Select s.FirstName +' '+s.LastName as 'Full Name', gs.Gname

from Student s Inner Join Group\_Student gs On s.[sid]=gs.[Sid]

* Aggregate functions

Select Count(Gname) as 'Student in class AI1603'

from Group\_Student

Where Gname = 'AI1603'

* Group By

Select gs.Gname, Count(s.LastName) as 'Number of Student in class'

from Student s Left Join Group\_Student gs On s.[sid]=gs.[Sid]

Group By Gname

* Sub-Query

Select\*

from ( Select FirstName+' '+LastName as 'FullName',[Gender] from Student Where [FirstName] = 'Nguyen') tbl1 Where [Gender] ='Male'

* Partial Matching

Select FirstName+' '+LastName as 'Full Name'

from Student

Where FirstName Like '%gu%';