**Student Grading Management Sub-System**

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**Student Grading Management Sub-System**

For each subject that attended by the student, the lecture will give score to the assessment to each of their assessment. Below figure shows an Example of the assessments for course DBI202.

Table FML(Chưa được phân tách)



Category (hạng mục): Progress Tests , Assignment,Labs,Pe,FE

Type(loại) : Quiz , On-going, PE ,FE

Part(phần): Được làm bao nhiêu lần

Weight(trọng số từng hạng mục )

Completion Criteria(Điều kiện để thi và điểm tối thiểu để pass)

Duration(khoảng thời gian mà cần làm việc trong hạng mục): at home , in lab session

Question Type(Loại câu hỏi) :MTC

No Question(Số câu hỏi)

Knowledge and Skill

Grading Guide

Note:

Students can check their results at the end of semester as following example:

Table : Subject.(chưa được phân tách)



NO: number of subject

Subject code : one subject one code

Subject name : define of subject

Semester : season+year

Group:Lớp học

StartDate:thời điểm bắt đầu môn học

EndDate:thời điểm kết thúc môn học

Average mark: điểm trung bình

Status: not passed or passed

Each Subject code, student can check their detailed result of as below example:

Table Result of Mark (chưa được phân tách )



Grade category (hạng mục) : quiz 2

Grade Item(hạng mục) : thêm 1 row total

Weight: trọng số( cũng có ở bên FML table)

Value: mark.

In the system analyse , I can see that the Student Grading Management Sub-System have built about many main entities **: Assesment ; Grade ; Student ; Category ; Lecturers ; View ; Semester**  . Especially , Subject is the best important in Database . In addition , there are some entity : **Group\_Student ;Group; Course ; Category Details...**

First step , we should analyse more attribute in many entities :

Assessment (AssID,CategoryDetailsID,CourseID,Duration,Weight)

Category Details(CategoryDetailsID,CategoryID,CategoryDetailName)

Category(CategoryID,CategoryName,[Completion Criteria],Type)

Grade(SID,AssID,Score,[Date Exam])

Group\_Student(Gid,Sid)

Student(Sid,[First name],[Last name],Gender,DOB,Address)

Group(Gid,GName)

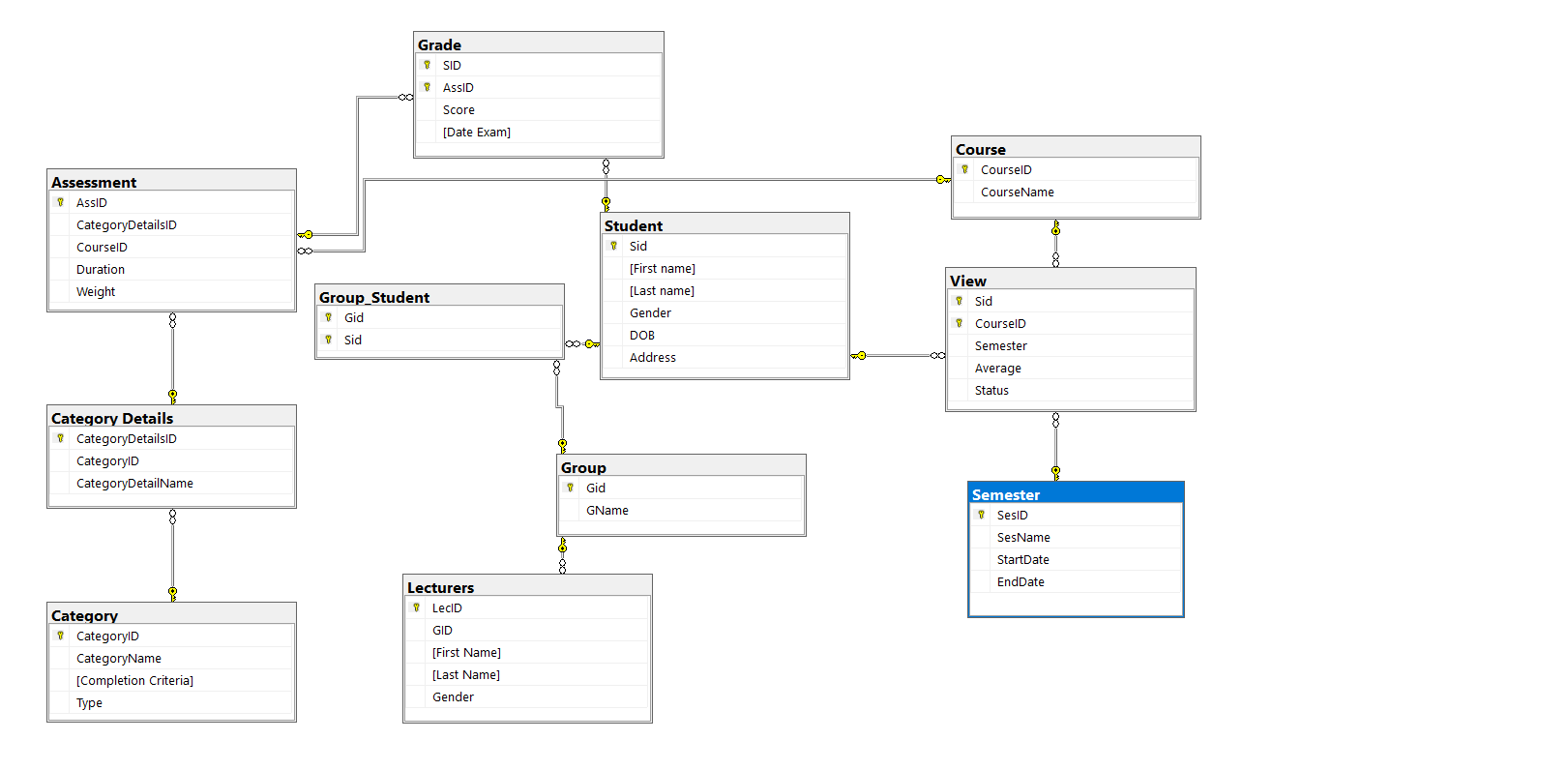
Lecturers(LecID,GID,[First Name],[Last Name],Gender)

Course(CourseID,CourseName)

View(Sid,CourseID,Semester,Average,Status)

Semester(SesID,SesName,StartDate,EndDate)

Diagram of Grading Management :



**Chuẩn Hóa Thuộc Tính Các Attribute Trên Từng Bảng :**

1. Table Assement

|  |  |
| --- | --- |
| Attributes | Date Type |
| AssID | Varchar |
| CategoryDetailsID | Varchar |
| CourseID | Varchar |
| Duration | Nvarchar |
| Weight | float |

2.Table Category

|  |  |
| --- | --- |
| Attributes | Data Type |
| CategoryID | Varchar |
| CategoryName | nvarchar |
| [Completion Criterial] | Varchar |
| Type | Nvarchar |

3.Table Category Details

|  |  |
| --- | --- |
| Attributes | Data Type |
| CategoryDetailsID | Varchar |
| CategoryID | Varchar |
| CategoryDetailName | Nvarchar |

4.Table Course

|  |  |
| --- | --- |
| Attributes | Data Type |
| CourseID | Varchar |
| CourseName | Varchar |

5.Table Grade

|  |  |
| --- | --- |
| Attributes | Data Type |
| SID | Char |
| AssID | Varchar |
| Score | Float |
| Date Exam | Date |

6.Table Group

|  |  |
| --- | --- |
| Attributes | Data Type |
| Gid | Varchar |
| Gname | Nvarchar |

7.Table Group\_Student

|  |  |
| --- | --- |
| Attributes | Data Type |
| Gid | Varchar |
| Sid | Char |

8.Table Lecturers

|  |  |
| --- | --- |
| Attributes | Data Type |
| LecID | Varchar |
| GID | Varchar |
| First Name | Varchar |
| Last Name | Varchar |
| Gender | bit |

9.Table Semester

|  |  |
| --- | --- |
| Attributes | Data Type |
| SesID | Varchar |
| SesName | Varchar |
| StartDate | Date |
| EndDate | Date |

10.Table Student

|  |  |
| --- | --- |
| Attributes | Data Type |
| Sid | Char |
| First name | Nvarchar |
| Last name | Nvarchar |
| Gender | Bit |
| DOB | Date |
| Address | Nvarchar |

11.Table View

|  |  |
| --- | --- |
| Attributes | Data Type |
| Sid | Char |
| CourseID | Varchar |
| Semester | Varchar |
| Average | Float |
| Status | Varchar |

## Xác Định Primary Key, Foriegn Key, Attributes Các TABLES :

1. Table Assement

|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Date Type | Requires | Key |
| AssID | Varchar | Not null | Primary Key |
| CategoryDetailsID | Varchar | Not null |  |
| CourseID | Varchar | Not null |  |
| Duration | Nvarchar | Not null |  |
| Weight | float | Not null |  |

2.Table Category

|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Data Type | Requires | Key |
| CategoryID | Varchar | Not null | Primary Key |
| CategoryName | nvarchar | Not null |  |
| [Completion Criterial] | Varchar | Not null |  |
| Type | Nvarchar | Not null |  |

3.Table Category Details

|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Data Type | Requires | Key |
| CategoryDetailsID | Varchar | Not null | Primary Key |
| CategoryID | Varchar | Not null | Primary\_Foreign Key |
| CategoryDetailName | Nvarchar | Not null |  |

4.Table Course

|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Data Type | Requires | Key |
| CourseID | Varchar | Not null | Primary Key |
| CourseName | Varchar | Not null |  |

5.Table Grade

|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Data Type | Requires | Key |
| SID | Char | Not null | Primary\_Foreign Key |
| AssID | Varchar | Not null | Primary\_Foreign Key |
| Score | Float | Not null |  |
| Date Exam | Date | Null |  |

6.Table Group

|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Data Type | Requires | Key |
| Gid | Varchar | Not null | Primary\_Key |
| Gname | Nvarchar | Not null |  |

7.Table Group\_Student

|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Data Type | Requires | Key |
| Gid | Varchar | Not null | Primary\_Foreign Key |
| Sid | Char | Not null | Primary\_Foreign Key |

8.Table Lecturers

|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Data Type | Requires | Key |
| LecID | Varchar | Not null | Primary |
| GID | Varchar | Not null | Primary\_Foreign Key |
| First Name | Varchar | Not null |  |
| Last Name | Varchar | Not null |  |
| Gender | bit | Not null |  |

9.Table Semester

|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Data Type | Requires | Key |
| SesID | Varchar | Not null | Primary Key |
| SesName | Varchar | Not null |  |
| StartDate | Date | Not null |  |
| EndDate | Date | Not null |  |

10.Table Student

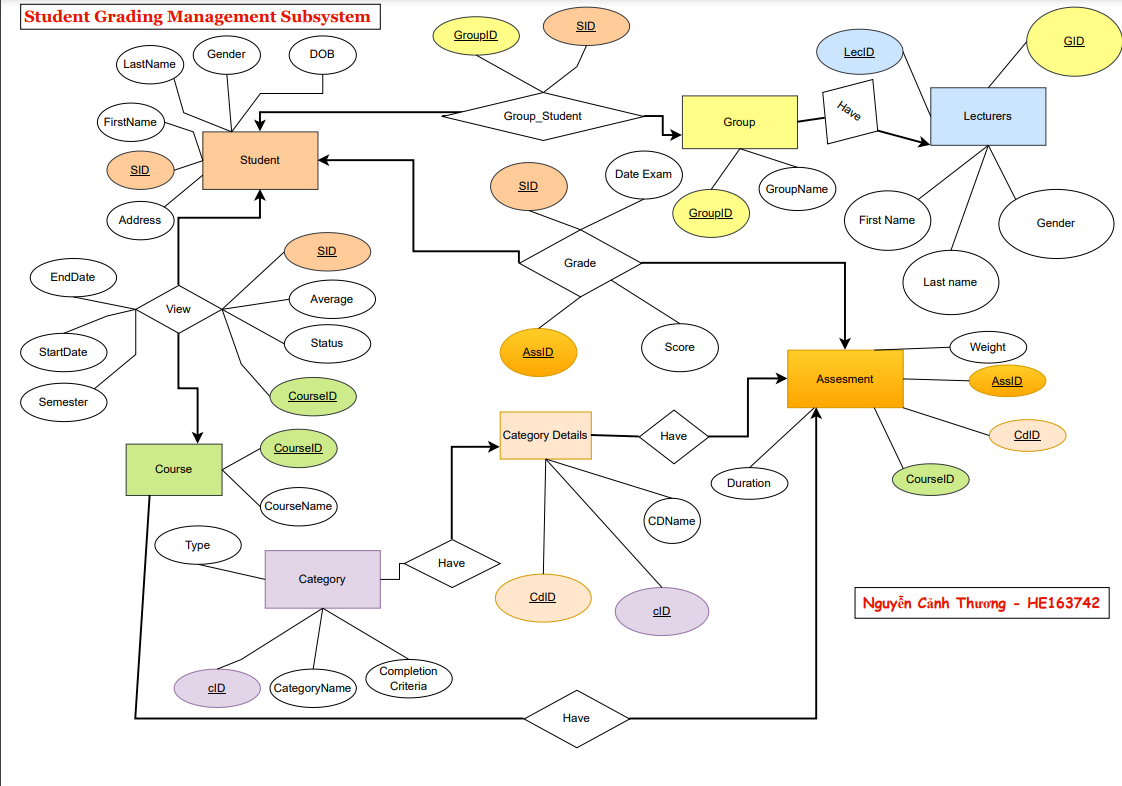
|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Data Type | Requires | Key |
| Sid | Char | Not null | Primary Key |
| First name | Nvarchar | Not null |  |
| Last name | Nvarchar | Not null |  |
| Gender | Bit | Not null |  |
| DOB | Date | Not null |  |
| Address | Nvarchar | Not null |  |

11.Table View

|  |  |  |  |
| --- | --- | --- | --- |
| Attributes | Data Type | Requires | Key |
| Sid | Char | Not null | Primary Key |
| CourseID | Varchar | Not null | Foregin Key |
| Semester | Varchar | Not null |  |
| Average | Float | Not null |  |
| Status | Varchar | Not null |  |

## Database\_Diagram

### Hình Ảnh Và Mô Tả



## Creat Table And Attributes

### Code sql

### Image + Results:

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|  | CREATE TABLE [dbo].[Assessment](  [AssID] [varchar](10) NOT NULL,  [CategoryDetailsID] [varchar](10) NOT NULL foreign key references Category Details(CategoryDetailsID),  [CourseID] [varchar](10) NOT NULL,  [Duration] [nvarchar](30) NOT NULL,  )  CREATE TABLE [dbo].[Category](  [CategoryID] [varchar](10) NOT NULL,  [CategoryName] [nvarchar](50) NOT NULL,  [Completion Criteria] [varchar](10) NOT NULL,  [Type] [nvarchar](50) NOT NULL,  )  CREATE TABLE [dbo].[Category Details](  [CategoryDetailsID] [varchar](10) NOT NULL,  [CategoryID] [varchar](10) NOT NULL,  [CategoryDetailName] [nvarchar](50) NOT NULL,  )  CREATE TABLE [dbo].[Course](  [CourseID] [varchar](10) NOT NULL,  [CourseName] [varchar](50) NOT NULL,  )  CREATE TABLE [dbo].[Grade](  [SID] [char](8) NOT NULL,  [AssID] [varchar](10) NOT NULL,  [Score] [float] NOT NULL,  [Date Exam] [date] NULL,  )  CREATE TABLE [dbo].[Group](  [Gid] [varchar](10) NOT NULL,  [GName] [nvarchar](50) NOT NULL,  )  CREATE TABLE [dbo].[Group\_Student](  [Gid] [varchar](10) NOT NULL,  [Sid] [char](8) NOT NULL,  )  CREATE TABLE [dbo].[Lecturers](  [LecID] [varchar](10) NOT NULL,  [GID] [varchar](10) NOT NULL,  [First Name] [varchar](50) NOT NULL,  [Last Name] [varchar](50) NOT NULL,  [Gender] [bit] NOT NULL,  )  CREATE TABLE [dbo].[Semester](  [SesID] [varchar](10) NOT NULL,  [SesName] [varchar](50) NOT NULL,  [StartDate] [date] NOT NULL,  [EndDate] [date] NOT NULL,  )  CREATE TABLE [dbo].[Student](  [Sid] [char](8) NOT NULL,  [First name] [nvarchar](50) NOT NULL,  [Last name] [nvarchar](50) NOT NULL,  [Gender] [bit] NOT NULL,  [DOB] [date] NOT NULL,  [Address] [nvarchar](150) NULL,  )  CREATE TABLE [dbo].[View](  [Sid] [char](8) NOT NULL,  [CourseID] [varchar](10) NOT NULL,  [Semester] [varchar](10) NOT NULL,  [Average] [float] NULL,  [Status] [varchar](20) NULL,  ) |
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