

```
CREATE TABLE Student(  
sID INT AUTO_INCREMENT NOT NULL PRIMARY KEY,  
sName VARCHAR(50) NOT NULL,  
GPA TINYINT  
);
```

```
CREATE TABLE Module(  
mCode CHAR(6) NOT NULL PRIMARY KEY,  
mCredits TINYINT NOT NULL DEFAULT 10,  
mTitle VARCHAR(100) NOT NULL  
);
```

```
CREATE TABLE Grade(  
sID INT,  
mCode CHAR(6),  
gMark TINYINT,  
CONSTRAINT pk1 PRIMARY KEY(sID, mCode),  
CONSTRAINT fk1 FOREIGN KEY (sID) REFERENCES Student (sID) ON DELETE CASCADE,  
CONSTRAINT fk2 FOREIGN KEY (mCode) REFERENCES Module (mCode) ON DELETE CASCADE  
);
```

```
INSERT INTO Student  
(sID, sName, GPA)  
VALUES  
(1, 'John', 18.5),  
(2, 'Mary', 19),  
(3, 'James', 18),  
(4, 'Amy', 17),  
(5, 'John', 18.5),  
(6, 'Amy', 18);
```

```
INSERT INTO Module  
VALUES  
('G51DBI', 10, 'Databases and Interfaces'),  
('G51PRG', 20, 'Programming'),  
('G51IAI', 10, 'Artificial Intelligence'),  
('G52ADS', 10, 'Algorithms');
```

```
INSERT INTO Grade  
(sID, mCode, gMark)  
VALUES  
(1, 'G51DBI', 70),  
(1, 'G51PRG', 60),  
(1, 'G51IAI', 60),  
(2, 'G51DBI', 80),  
(2, 'G51PRG', 50),  
(2, 'G51IAI', 60),  
(3, 'G51DBI', 50),  
(3, 'G51PRG', 50),
```

```
(3, 'G51IAI', 60),  
(4, 'G51DBI', 75),  
(4, 'G51PRG', 65),  
(4, 'G51IAI', 55),  
(5, 'G51DBI', 70),  
(5, 'G51PRG', 50),  
(5, 'G51IAI', 50),  
(6, 'G51DBI', 70),  
(6, 'G51PRG', 100),  
(6, 'G51IAI', 55);
```

>> create table Decision

```
create table Decision(  
    gmark tinyint primary key,  
    pass tinyint  
);
```

>> load your own data

load data infile '/Applications/XAMPP/xamppfiles/htdocs/data1.csv' into table decision
fields terminated by ',' lines terminated by '\n' (gmark, pass)

>> add constraint

```
alter table grade  
add constraint fk3 foreign key (gmark) references decision (gmark) on delete cascade;
```

>> create table Marking

```
create table Marking(  
    sid int,  
    mcode char(6),  
    markerid int,  
    constraint pk1 primary key(sid, mcode, markerid)  
);
```

insert into marking

values

```
(1, 'G51DBI', 1),  
(1, 'G51DBI', 2),  
(2, 'G51PRG', 1),  
(2, 'G51IAI', 1),  
(3, 'G51PRG', 2),  
(3, 'G51PRG', 3)
```

>> add constraint

alter table marking

add constraint fk4 foreign key (sid, mcode) references grade (sid, mcode) on delete cascade;

>> drop constraint

alter table marking drop foreign key fk4