create table Student (ID int NOT null , Name varchar(20), primary key (ID) );

create table Course (ID int not null ,Name varchar(20), primary key (ID));

create table st\_course (std\_ID int Not null,course\_ID int not Null,Primary key(std\_ID,course\_ID)

,Foreign key (std\_ID) references student(ID),

Foreign key (course\_ID) references Course(ID));

insert into Student values (1,'Moayed');

insert into Student values (2,'Magdy');

insert into Student values (3,'Ibrahim');

insert into Student values (4,'Rami');

insert into Student values (5,'Sami');

insert into Course values (1,'Arabic');

insert into Course values (2,'English');

insert into Course values (3,'physics');

insert into st\_course values(1,1);

insert into st\_course values(1,2);

insert into st\_course values(1,3);

insert into st\_course values(2,1);

insert into st\_course values(2,3);

insert into st\_course values(3,1);

insert into st\_course values(3,2);

insert into st\_course values(3,3);

insert into st\_course values(4,1);

insert into st\_course values(4,2);

insert into st\_course values(4,3);

insert into st\_course values(5,1);

insert into st\_course values(5,3);

Select Student.ID,Student.Name

From Student, st\_course,Course

where student.ID=st\_course.std\_ID and st\_course.course\_ID=Course.ID and Course.Name=("English")

;

select \*

From Student S1

where not exists (Select\*

From Student S2 , Course , st\_course

where S1.ID=S2.ID

and S2.ID=st\_course.std\_ID

and Course.ID = st\_course.course\_ID

and Course.Name='English');

--------------------------------------------------------------------------------------------------------------------------------Code after discussion with Moayed

drop table st\_course

drop table Student

drop table Course

create table Student (ID int NOT null , Name varchar(20), primary key (ID) );

create table Course (ID int not null ,Name varchar(20), primary key (ID));

create table st\_course (std\_ID int Not null,course\_ID int not Null,Primary key(std\_ID,course\_ID)

,Foreign key (std\_ID) references student(ID),

Foreign key (course\_ID) references Course(ID));

insert into Student values (1,'Moayed');

insert into Student values (2,'Magdy');

insert into Student values (3,'Ibrahim');

insert into Student values (4,'Rami');

insert into Student values (5,'Sami');

insert into Course values (1,'Arabic');

insert into Course values (2,'English');

insert into Course values (3,'physics');

insert into st\_course values(1,1);

insert into st\_course values(1,2);

insert into st\_course values(1,3);

insert into st\_course values(2,1);

insert into st\_course values(2,3);

insert into st\_course values(3,1);

insert into st\_course values(3,2);

insert into st\_course values(3,3);

insert into st\_course values(4,1);

insert into st\_course values(4,2);

insert into st\_course values(4,3);

insert into st\_course values(5,1);

insert into st\_course values(5,3);

--Select s.Name,c.Name

--From Student s

--inner join st\_course sc on S.ID=sc.std\_ID

--inner join Course c on c.ID=sc.course\_ID

--;

//if you know the id of English

--select \* from Student

--select \* from st\_course

--Select '>',s.Name,sc.course\_ID

--From Student s

--left join st\_course sc on S.ID=sc.std\_ID and sc.course\_ID = 2

----left Join Course c on c.ID=sc.course\_ID

--where sc.std\_ID is null

--;

//If you don’t know the id

Select '>',s.Name

From Student s

left join

(

Select sc.std\_ID,sc.course\_ID,c.Name

From st\_course sc

inner join Course c on Sc.course\_ID=c.ID

) sc

on S.ID=sc.std\_ID and sc.Name = 'English'

where sc.std\_ID is null

;

-----------------------------------------------------------------------drop table st\_course

drop table Student

drop table Course

create table Student (ID int NOT null , Name varchar(20), primary key (ID) );

create table Course (ID int not null ,Name varchar(20), primary key (ID));

create table st\_course (std\_ID int Not null,course\_ID int not Null,Primary key(std\_ID,course\_ID)

,Foreign key (std\_ID) references student(ID),

Foreign key (course\_ID) references Course(ID));

insert into Student values (1,'Moayed');

insert into Student values (2,'Magdy');

insert into Student values (3,'Ibrahim');

insert into Student values (4,'Rami');

insert into Student values (5,'Sami');

insert into Course values (1,'Arabic');

insert into Course values (2,'English');

insert into Course values (3,'physics');

insert into Course values (4,'Math');

insert into st\_course values(1,1);

insert into st\_course values(1,2);

insert into st\_course values(1,3);

insert into st\_course values(2,1);

insert into st\_course values(1,4);

insert into st\_course values(2,3);

insert into st\_course values(3,1);

insert into st\_course values(3,2);

insert into st\_course values(3,3);

insert into st\_course values(3,4);

insert into st\_course values(4,1);

insert into st\_course values(4,2);

insert into st\_course values(4,3);

insert into st\_course values(5,1);

insert into st\_course values(5,3);

select c1.Name,c2.Name

from

(select Student.ID,Student.Name,Course.ID,Course.Name

From Student,Course

order by Student.ID)c1

(select Course.ID,Course.Name,st\_course.std\_ID

from st\_course left join Course on Course.ID=st\_course.course\_ID

group by Course.ID,Course.Name,st\_course.std\_ID)c2

-----------------------------------------------------------------------drop table st\_course

drop table Student

drop table Course

create table Student (ID int NOT null , Name varchar(20), primary key (ID) );

create table Course (ID int not null ,Name varchar(20), primary key (ID));

create table st\_course (std\_ID int Not null,course\_ID int not Null,Primary key(std\_ID,course\_ID)

,Foreign key (std\_ID) references student(ID),

Foreign key (course\_ID) references Course(ID));

insert into Student values (1,'Moayed');

insert into Student values (2,'Magdy');

insert into Student values (3,'Ibrahim');

insert into Student values (4,'Rami');

insert into Student values (5,'Sami');

insert into Course values (1,'Arabic');

insert into Course values (2,'English');

insert into Course values (3,'physics');

insert into Course values (4,'Math');

insert into st\_course values(1,1);

insert into st\_course values(1,2);

insert into st\_course values(1,3);

insert into st\_course values(2,1);

insert into st\_course values(1,4);

insert into st\_course values(2,3);

insert into st\_course values(3,1);

insert into st\_course values(3,2);

insert into st\_course values(3,3);

insert into st\_course values(3,4);

insert into st\_course values(4,1);

insert into st\_course values(4,2);

insert into st\_course values(4,3);

insert into st\_course values(5,1);

insert into st\_course values(5,3);

select c1.Name,c2.Name

from

(select Student.ID,Student.Name,Course.ID,Course.Name

From Student,Course

group by Student.ID,Student.Name,Course.ID,Course.Name)c1

left join

(select Course.ID,Course.Name,st\_course.std\_ID

from st\_course left join Course on Course.ID=st\_course.course\_ID

group by Course.ID,Course.Name,st\_course.std\_ID)c2 on c1.ID is null

-----------------------------------------------------------------------drop table st\_course

drop table Student

drop table Course

create table Student (ID int NOT null , Name varchar(20), primary key (ID) );

create table Course (ID int not null ,Name varchar(20), primary key (ID));

create table st\_course (std\_ID int Not null,course\_ID int not Null,Primary key(std\_ID,course\_ID)

,Foreign key (std\_ID) references student(ID),

Foreign key (course\_ID) references Course(ID));

insert into Student values (1,'Moayed');

insert into Student values (2,'Magdy');

insert into Student values (3,'Ibrahim');

insert into Student values (4,'Rami');

insert into Student values (5,'Sami');

insert into Course values (1,'Arabic');

insert into Course values (2,'English');

insert into Course values (3,'physics');

insert into Course values (4,'Math');

insert into st\_course values(1,1);

insert into st\_course values(1,2);

insert into st\_course values(1,3);

insert into st\_course values(2,1);

insert into st\_course values(1,4);

insert into st\_course values(2,3);

insert into st\_course values(3,1);

insert into st\_course values(3,2);

insert into st\_course values(3,3);

insert into st\_course values(3,4);

insert into st\_course values(4,1);

insert into st\_course values(4,2);

insert into st\_course values(4,3);

insert into st\_course values(5,1);

insert into st\_course values(5,3);

select c1.StudentName,c1.CourseName

from

(select Student.ID,Student.Name StudentName,Course.ID CourseID,Course.Name CourseName

From Student,Course

group by Student.ID,Student.Name,Course.ID,Course.Name

)c1

left join

(select Course.ID,Course.Name,st\_course.std\_ID

from st\_course left join Course on Course.ID=st\_course.course\_ID

group by Course.ID,Course.Name,st\_course.std\_ID)c2 on c1.ID=c2.std\_ID and c1.CourseID=c2.ID

where c2.ID is null

--find students which are enrolled on more than two courses

select c.ID, c.Name, COUNT(c.ID) NoOfStudents

from

(select Student.ID,Student.Name,st\_course.course\_ID

from Student

join st\_course on Student.ID=std\_ID)c

group by c.ID,c.Name

having COUNT(c.ID)>2