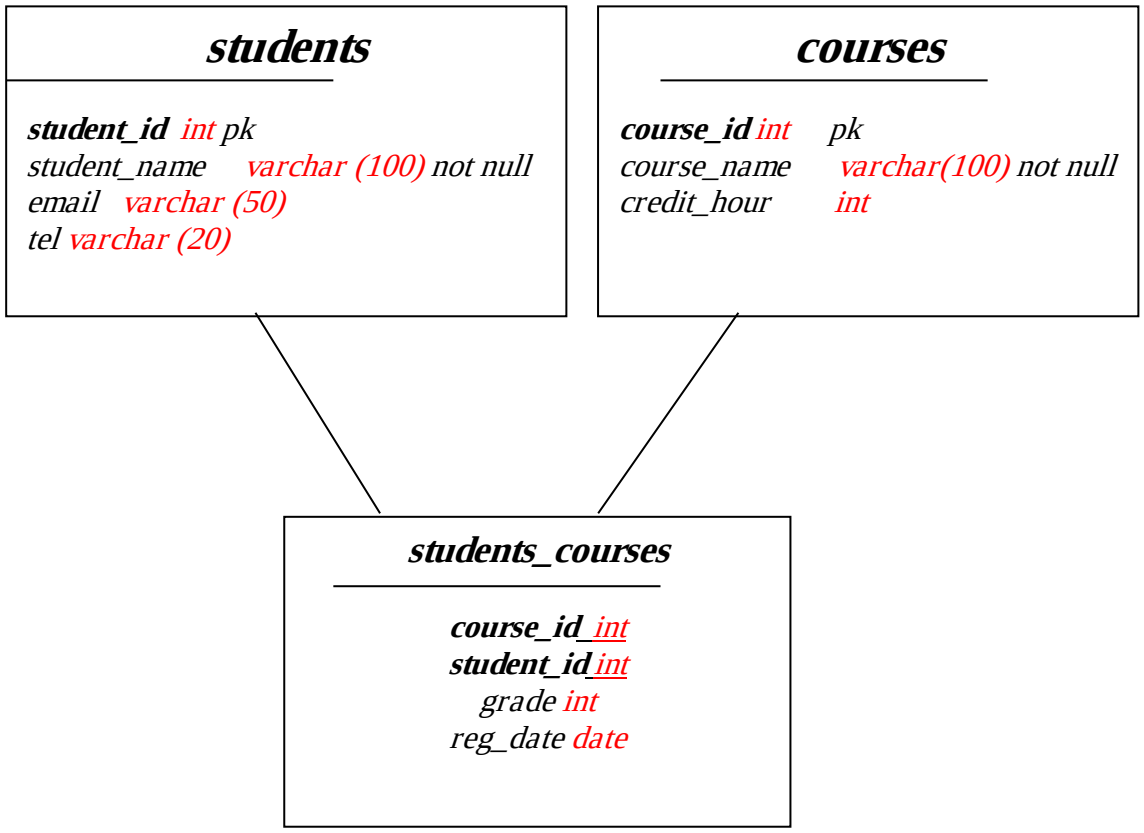
MySQL Labs

MySQL (Day1):

1.	**Create a database called grades**
	create database grades;
2.	**Create the following tables in the grades database:** 
	create table students (**student_id int not null,** **student_name varchar(100) not null,** **email varchar(50),** **tel varchar(20),** **primary key(student_id)** **);** **create table courses (** **course_id int not null,** **course_name varchar(100) not null,**

	credit_hour int,
	primary key(course_id));
	
	create table students_courses(
	course_id int not null,
	student_id int not null,
	grade int,
	reg_date date,
	primary key(course_id,student_id),
	foreign key(course_id) references courses(course_id),
	foreign key(student_id) references students(student_id));

3	Modify the students table to allow for longer Student names (150 char) Confirm your modification.
	alter table students modify student_name varchar(150);
4	Add constraint to force unique email for each student
	alter table students add constraint unique_email unique (email);
5	Get Time, Date, Current user, MySQL Version using prompt?
	select current_timestamp; select current_user; select version();
6	Add gender column for the students table. It holds two value (male or female)
	alter table students add column gender varchar(20), add constraint check_gender check(gender in('female','male'));
7	Add birth_date column for the students table.
	alter table students add column birth_date date;
8	Drop the student_name column and replace it with first name and last name.
	alter table students drop column student_name, add column first_name varchar(100) not null, add column last_name varchar(100) not null;
9	Insert your friend's data into the table students.
	insert into students set student_id=1,email='omniagoher@gmail.com',tel='0100254566', gender='female',birth_date='1999-09-09',first_name='omnia',last_name='goher';
10	Create a new table (male_students) based on students table and fill it with the data of male students
	create table male_students as select * from students where gender='male';

Part II

Create another database “php”

Use php

Run Lab Script then answer the following

1	**Display all students’ information.**
	select * from students;
2	**Display male students only.**
	select * from students where gender='male';
3	**Display the number of female students.**
	select count(student_id) as number_of_female from students where gender='female';
4	**Display the students’ data for the students who are born before 1992-10-01.**
	select * from students where birth_date<'1992-10-01';
5	**Display the students’ data for the male students who are born before 1991-10-01.**
	select * from students where birth_date<'1991-10-01' and gender='male';
6	**Display course_id and their grades sorted by grades.**
	select course_id, grade from students_courses order by grade;
7	**Display students’ names that begin with A.**
	select * from students where first_name like 'A%';
8	**Display the gender, number of males and females.**
	select gender, count(*) as count from students group by gender;
9	**Display the repeated first names and their counts if higher than 2.**
	select first_name, count(*) as count from students group by first_name having count>2;
10	**Display the subject with highest grade**
	select course_id from students_courses where grade = (select max(grade) from students_courses);