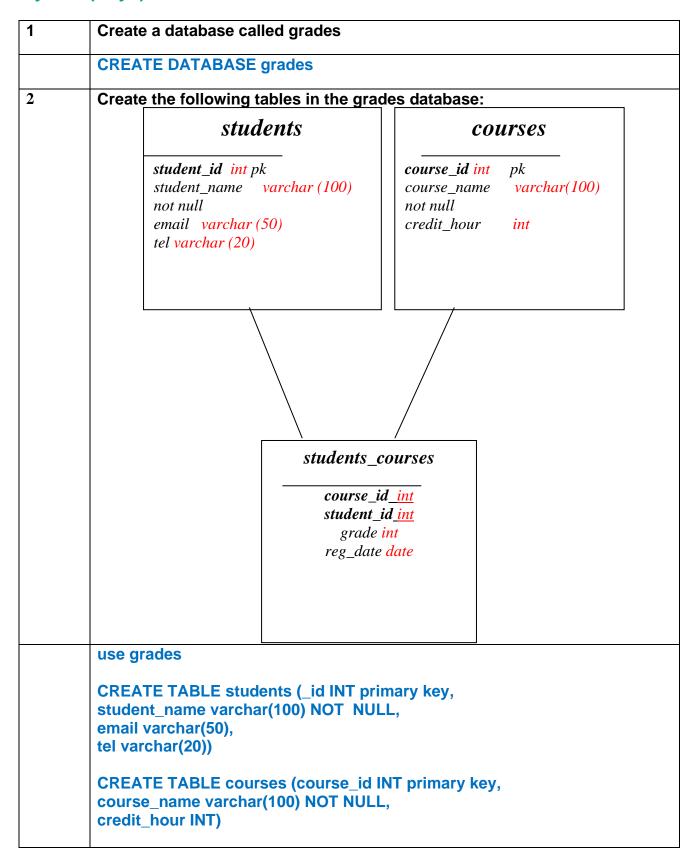
## MySQL Labs

## MySQL (Day1):



```
CREATE TABLE students courses (
           course id INT,
           student id INT.
           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(_id)
        Modify the Students table to allow for longer Student names (150 char)
3
         Confirm your modification.
        ALTER TABLE students MODIFY COLUMN student_name VARCHAR(150)
        NOT NULL:
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?
        TIME: SELECT CURTIME();
        Date: SELECT CURDATE();
        VERSION: select VERSION();
        CURRENT USER: SELECT CURRENT_USER();
        Add gender column for the students table. It holds two value (male or
6
        female)
        ALTER TABLE students add gender ENUM('male,'female')
7
        Add birth date column for the students table.
        ALTER TABLE students add birth date DATE:
        Drop the student name column and replace it with first name and last
8
        name.
        ALTER TABLE students
        ADD first name VARCHAR(100),
        ADD last_name VARCHAR(100);
        UPDATE students
        SET first_name = SUBSTRING_INDEX(student_name, ' ', 1),
          last name = SUBSTRING INDEX(student name, '', -1);
        ALTER TABLE students
        DROP COLUMN student name:
```

## Part II

Populate your tables with the following records:

```
      MariaDB [osg1]> select * from courses;

      Independent of the course of the cours
```

```
MariaDB [osg1]> select * from students;
 student_id | first_name | last_name | tel | email | gender | birth_date
                        | Aly
| Ibrahim
| Ossama
| Khaled
                                    NULL NULL
          1 | Ahmed
                                                  male
                                                            1991-10-01
          2 Ahmed
                                                  male
                                                            1991-09-01
          3 Ahmed
                                                            1992-10-01
                                    | NULL | NULL
                                                  male
          4 Hoda
                                    NULL NULL
                                                  | female | 1991-09-01
                        Khalil
                                    | NULL | NULL | female | 1992-10-01
          5 Mona
```

```
MariaDB [osg1]> select * from students_courses;
 student_id | course_id | grade | reg_date |
                           80 | NULL
          1 |
                     1 |
                           90
          1
                     2
                                NULL
          1
                     3
                          100
                                NULL
          2
                     2
                           99
                                NULL
                     3
                           80 NULL
          2
                     4
          3 |
                           70 NULL
```

1	Display all students' information.
	SELECT * FROM students;
2	Display male students only.
	Select * from students where gender ='male';
3	Display the <u>number of female</u> students.
	Select COUNT(gender) 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 <u>students' data</u> for the students who are born after 1991-10-01.
	Select * from students where birth_date >' 1992-10-01'