MySQL Labs

MySQL (Day2):

1	Update students courses table, set the registration date value to						
	"Today";						
	<pre>update students_courses set reg_date = current_date();</pre>						
2	Display the registration date in the following format:						
_	Day, month/ year						
	select date_format(reg_date,'%d,%m,/%y')						
	as special_date						
	from students_courses;						
3	Display the <u>full name (first, last)</u> of the student with <u>his grade</u> .						
•	Display the <u>lan name (mst, last)</u> of the student with <u>ms grade</u> .						
	if his garde is greater than 85% Excellent, from 75% to 85% Very						
	good, from 65% to 75% Good and from 55% to 65% pass						
	otherwise will be graded as failed.						
	select concat (s.first_name," ",s.last_name) as fullName,						
	case						
	when c.grade>85 then 'Excellent'						
	when c.grade between 75 and 85 then 'Very Good'						
	when c.grade between 65 and 75 then 'Good'						
	when c.grade between 55 and 65 then'Pass'						
	else 'Fail'						
	end as grade						
	from students_courses c ,students s						
	where c.student_id=s.student_id;						
4	Display the <u>capitalized last name</u> , and the <u>grade</u> , if he has no grade						
	display the keyword <u>absent</u> . [using ifNULL function]						
	select upper (s.last_name) as lastName,						
	ifnull(c.grade,'absent') as grade						
	from students_courses c RIGHT JOIN students s						
	on(c.student_id=s.student_id);						
5	Display students' names, course name along with their grades.						
	select concat (s.first_name," ",s.last_name) as						
	fullName,c.course_name,sc.grade						
	from students_courses sc ,students s,courses c						

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where sc.student_id=s.student_id
    and sc.course_id=c.course_id;
    For each course, display the course name, min grade, max grade,
    average grade, number of attended students.
    select c.course_name,min(sc.grade) as min_grade ,max(sc.grade)
    max_grade,avg(sc.grade) as avg_grade ,count(*) as noOfStudents
    from courses c,students_courses sc
    where c.course_id=sc.course_id
    group by course_name;
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    Use subquery to display the <u>names of the students</u> who were born
    before student no 1.
    select concat(first_name," ",last_name) as fullName
     from students
     where birth_date<(select birth_date
     from students
     where student_id=1);
    Use subquery to display the data of all the courses with a credit
    hour similar to MySQL's credit hours
    select * from courses
    where credit_hour = (select credit_hour
    from courses
    where course_name="MySQL")
    and course_name !="MySQL";
    Create a view called female_students_vu to display all the female
10
    students
    create view female_students_vu
    (select * from students
    where gender="female");
11
    Try to insert a male student through your view
    insert into female_students_vu
    (student_id,first_name,last_name,gender,birth_date) values
    (6,"ahmed","mohamed","male","1999-09-09");
    Select all the data from your view and then from the students table
12
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sele	ect * from female_students_vu;			
sele	ect * from students;			
Prevent the ability to insert another male student through you view				
alte	er view female_students_vu			
as				
(se	lect * from students			
whe	ere gender="female")			
wit	h check option;			
Use	e the information schema to display the <u>table name</u> , <u>schema</u> and			
the	updatability of the female_students_vu view			
sele	ect table_schema,table_name,is_updatable			
froi	m views			
whe	ere table_name='female_students_vu';			
Use	e the information schema to display the <u>create time</u> , <u>table_rows</u> ,			
aut	o increment, and the comments on the students table.			
sele	ect create_time,table_rows,auto_increment,table_comment			
froi	m tables			
whe	ere table_name='students';			
Cre	ate a nonunique index on the foreign key column (COURSE_ID)			
in t	he students_courses table.			
alte	er table students_courses add index (course_id);			
Cre	ate a user with your name and give him the privilege to access			
the	grades database			
crea	ate user 'omnia'@'localhost' IDENTIFIED by 'db';			
Con	nnect to mysql using the user you created and try to insert one			
rec	ord in the courses table.			
mys	sql -u omnia -p			
use	e grades;			
inse	ert into courses values (1,'DataBase',3);			
Cha	ange your password.			
Set	password for 'omnia'@'localhost' = password('omnia');			
Sho	ow your privileges.			
Sho	ow grants for omnia;			