MySQL Labs

MySQL (Day2):

Mariam khaled Saad Ibrahim (open source)

| update students_courses set reg_date=current_date(); Display the registration date in the following format: | 1 | Update students courses table, set the registration date value to "Today"; |
|---|---|---|
| select date_format(reg_date,"%D , %M / %Y") from students_courses; 3 Display the full name (first, last) of the student with his grade. 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(first_name,last_name),s.student_id,grade , case when grade >=85 then "Excellent" when grade < 85 and grade >=75 then "Very good" when grade <65 and grade >= 65 then "good" when grade <65 and grade>=55 then "pass" else "failed" end as student_grade from students s,students_courses sc where s.student_id=sc.student_id; 4 Display the capitalized last name , and the grade , if he has no grade display the keyword absent. [using ifNULL function] select upper(last_name),ifnull(grade,"absent") from students s left JOIN students_courses sc on s.student_id = sc.student_id; 5 Display students' names, course name along with their grades. select concat(first_name,last_name),course_name,grade from courses c,students ,students_courses sc where s.student_id=sc.course_id=sc.course_id; 6 For each course, display the course name, min grade, max grade, average grade, number of attended students. | | <pre>update students_courses set reg_date=current_date();</pre> |
| select date_format(reg_date,"%D , %M / %Y") from students_courses; 3 Display the full name (first, last) of the student with his grade. 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(first_name,last_name),s.student_id,grade , case when grade >=85 then "Excellent" when grade < 85 and grade >=75 then "Very good" when grade <65 and grade >= 65 then "good" when grade <65 and grade>=55 then "pass" else "failed" end as student_grade from students s,students_courses sc where s.student_id=sc.student_id; 4 Display the capitalized last name , and the grade , if he has no grade display the keyword absent. [using ifNULL function] select upper(last_name),ifnull(grade,"absent") from students s left JOIN students_courses sc on s.student_id = sc.student_id; 5 Display students' names, course name along with their grades. select concat(first_name,last_name),course_name,grade from courses c,students ,students_courses sc where s.student_id = sc.course_id=sc.course_id; 6 For each course, display the course name, min grade, max grade, average grade, number of attended students. | | |
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| ,students_courses sc where s.student_id=sc.student_id and c.course_id=sc.course_id; 6 For each course, display the course name, min grade, max grade, average grade, number of attended students. | | |
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| number of attended students. | | where s.student_id=sc.student_id and c.course_id=sc.course_id; |
| | 6 | For each course, display the course name, min grade, max grade, average grade, |
| select course_name , min(grade) , max(grade) ,avg(grade) ,count(student_id) | | number of attended students. |
| | | select course_name , min(grade) , max(grade) ,avg(grade) ,count(student_id) |
| from courses c , students_courses sc where c.course_id = sc.course_id group by | | from courses c , students_courses sc where c.course_id = sc.course_id group by |
| course_name; | L | course_name; |

| 7 | Use subquery to display the <u>names of the students</u> who were born before student no 1. |
|----|---|
| | select concat(first_name,last_name) from students where birth_date < (select |
| | birth_date from students where student_id=1); |
| | |
| 8 | Use subquery to display the <u>data of all the courses</u> with a credit hour similar to |
| L | MySQL's credit hours |
| | select * from courses where credit_hour = (select credit_hour from courses where |
| | course_name="MySQL"); |
| 10 | Create a view called female_students_vu to display all the female students |
| | create view female_students_vu AS select * from students where gender like |
| | "female"; |
| 11 | Try to insert a male student through your view |
| | insert into |
| | female_students_vu(student_id,first_name,last_name,tel,email,gender,birth_date) |
| | |
| | values(20, "mohamed", "zain", "01118726857", "mohamed@gmail.com", "male" |
| | , "1999-09-02"); |
| 12 | Select all the data from your view and then from the students table |
| | select * from female_students_vu; |
| | select * from students; |
| 13 | Prevent the ability to insert another male student through you view |
| | ALTER VIEW female_students_vu as select * from students where gender like |
| | "female"WITH CHECK OPTION; |
| 14 | Use the information schema to display the <u>table name</u> , <u>schema</u> and the |
| | updatability of the female_students_vu view |
| | select TABLE_SCHEMA, TABLE_NAME,IS_UPDATABLE from views where |
| | TABLE_NAME="female_students_vu"; |
| 15 | |
| | auto_increment, and the comments on the students table. |
| | select create_time , table_rows , auto_increment , table_comment |
| | from information_schema.tables where table_name = "students"; |
| 16 | Create a nonunique index on the foreign key column (COURSE_ID) in the |
| | students_courses table. |
| | create index courses_id_index on students_courses (course_id); |
| 17 | Create a user with your name and give him the privilege to access the grades |
| | database |
| | create user "mariam" IDENTIFIED BY "111115"; |
| | GRANT ALL ON grades.* TO 'mariam'; |
| | |

| 18 | Connect to mysql using the user you created and try to insert one record in the courses table. |
|----|--|
| | insert into courses(course_id,course_name,credit_hour)values(5,"reactjs",50); |
| 19 | Change your password. |
| | alter USER 'mariam' identified by '12345'; |
| 20 | Show your privileges. |
| | SHOW GRANTS FOR 'mariam'; |
| | |