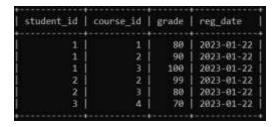
MySQL Labs

MySQL (Day2):

1 Update students courses table, set the registration date value to "Today";

UPDATE students_courses

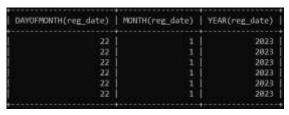
SET reg_date = CURRENT_DATE();



2 Display the registration date in the following format:

Day, month/ year

SELECT DAYOFMONTH(reg_date), MONTH(reg_date), YEAR(reg_date) FROM students_courses;



3 Display the <u>full name (first, last)</u> of the student with <u>his 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(first_name," ",last_name) AS "full_name" ,course_name,grade, (CASE

WHEN (grade >= 85) THEN "Excellent"

WHEN (grade >= 75 AND grade < 85) THEN "Very Good"

WHEN (grade >= 65 AND grade < 75) THEN "Good"

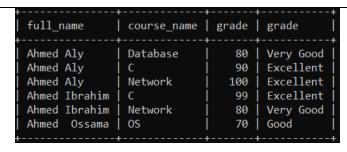
WHEN (grade >= 55 AND grade < 65) THEN "Pass"

WHEN (grade < 55) THEN "Failed"

END) AS grade

FROM students s, courses c, students_courses sc

WHERE (s.student_id = sc.student_id) AND (c.course_id = sc.course_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(last_name) AS las_name,course_name,IFNULL(grade,"Absent") AS grade

FROM (students s,courses c) LEFT OUTER JOIN students_courses sc ON (s.student_id = sc.student_id) AND (c.course_id = sc.course_id);



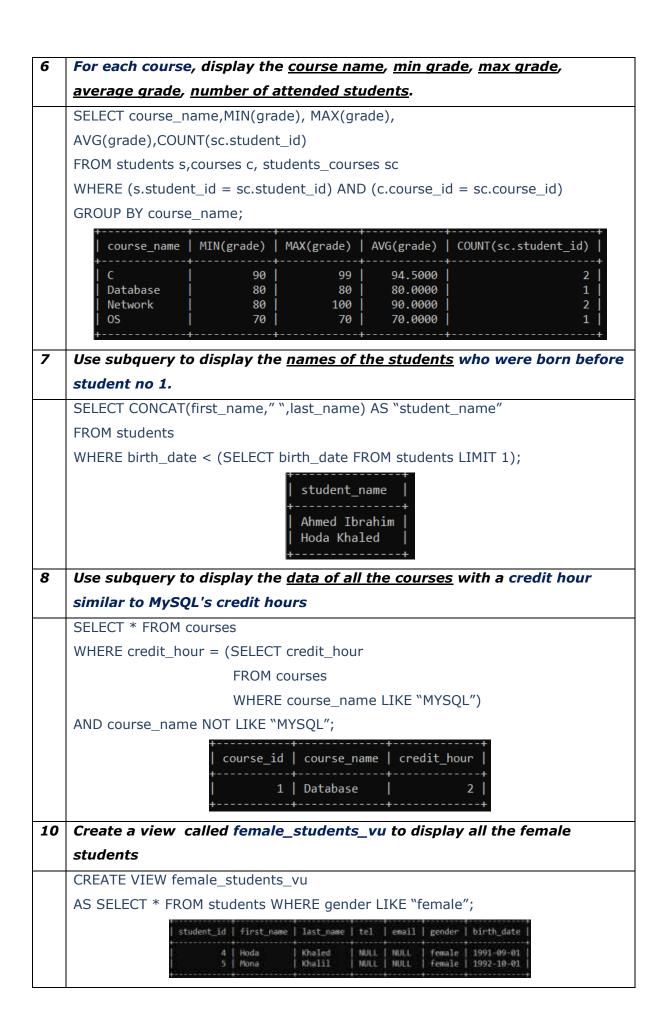
5 Display <u>students' names</u>, <u>course name</u> along with their grades.

SELECT CONCAT(first_name," ",last_name) AS "student_name" ,course_name,grade

FROM students s, courses c, students_courses sc

WHERE (s.student_id = sc.student_id) AND (c.course_id = sc.course_id);

student_name	course_name	grade
Ahmed Aly	Database	80
Ahmed Aly	C	90
Ahmed Aly	Network	100
Ahmed Thrahim	C	99
Ahmed Ibrahim	Network:	80
Ahmed Ossana	OS	70



Try to insert a male student through your view INSERT INTO female_students_vu VALUES(6,"Amir","Ahmed",NULL,NULL,"male","1999-11-1"); 12 Select all the data from your view and then from the students table SELECT * FROM female_students_vu; student_id | first_name | last_name | tel | email | gender | birth_date Khaled NULL 1991-09-01 Hoda NULL female Khalil 5 Mona NULL NULL female 1992-10-01 SELECT * FROM students; student_id | first_name | last_name | tel email | gender birth_date MULL MULL 1991-10-01 Ahmed Aly male Ahmed Ibrahim NULL NULL male 1991-09-01 1992-10-01 Ahmed Ossama NULL NULL male 4 Hoda Khaled NULL NULL female 1991-09-01 Mona Khalil NULL NULL female 1992-10-01 Amir Ahmed NULL NULL male 1999-11-01 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; MariaDB [php]> INSERT INTO female_students_vu -> VALUES(6, "Amr", "Hesham", NULL, NULL, "male", "1997-8-20"); ERROR 1369 (44000): CHECK OPTION failed `php`.`female_students_vu` Use the information schema to display the table name, schema and the 14 updatability of the female_students_vu view USE information_schema; DESC VIEWS; SELECT TABLE_NAME, TABLE_SCHEMA, IS_UPDATABLE FROM VIEWS WHERE TABLE_NAME LIKE "female_students_vu" AND TABLE SCHEMA LIKE "php"; TABLE NAME | TABLE_SCHEMA | IS_UPDATABLE female_students_vu | php YES

15 Use the information schema to display the <u>create time</u>, <u>table rows</u>, auto_increment, and the comments on the students table. USE information_schema; DESC TABLES; SELECT CREATE_TIME, TABLE_ROWS, AUTO_INCREMENT, TABLE_COMMENT FROM TABLES WHERE TABLE_NAME LIKE "students"; | TABLE_ROWS | AUTO_INCREMENT | TABLE_COMMENT CREATE_TIME 2023-01-21 13:58:49 5 NULL 6 2023-01-21 14:40:54 16 | Create a nonunique index on the foreign key column (COURSE_ID) in the students_courses table. ALTER TABLE students_courses ADD INDEX (course_id); 17 Create a user with your name and give him the privilege to access the grades database CREATE USER 'Hager'@'localhost' IDENTIFIED BY 'hagerOS43'; GRANT ALL ON grades.* TO 'Hager'; 18 Connect to mysql using the user you created and try to insert one record in the courses table. MYSQL -u Hager -p; USE grades; INSERT INTO courses (course_id,course_name,credit_hour) VALUES(1,"JavaScript",4); course_id | course_name | credit_hour 1 | JavaScript | 19 Change your password. ALTER USER 'Hager'@'localhost' IDENTIFIED BY 'OS43'; FLUSH PRIVILEGES: Or SET PASSWORD FOR 'Hager'@'localhost' = 'OS43'; 20 Show your privileges. SHOW GRANTS FOR CURRENT USER(); Grants for Hager@localhost GRANT USAGE ON *.* TO 'Hager'@'localhost' IDENTIFIED BY PASSWORD '*AE1324888159E381D32BADCB18C19E4EF0761CF7'