**MySQL Labs**

**MySQL (Day3):**

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| ***1*** | ***Update students courses table, set the registration date value to “Today”;*** |
|  | ***UPDATE students\_courses SET reg\_date = NOW() WHERE registration\_date < '2022-01-01';*** |
| ***2*** | ***Display the registration date in the following format:***  ***Day, month/ year*** |
|  | ***SELECT DATE\_FORMAT(reg\_date, '%W, %M/%Y') AS registration\_date\_formatted FROM students\_courses;*** |
| ***3*** | ***Display the capitalized last name , and the grade , if he has no grade display the keyword absent. [using ifNULL function]*** |
|  | ***SELECT UPPER(last\_name) AS last\_name\_capitalized, IFNULL(grade, 'absent') AS student\_grade FROM students;*** |
| ***4*** | ***Display students' names, course name along with their grades.*** |
|  | ***SELECT s.first\_name, s.last\_name, c.course\_name, g.grade***  ***FROM students s***  ***JOIN grades g ON s.student\_id = g.student\_id***  ***JOIN courses c ON g.course\_id = c.course\_id;*** |
| ***5*** | ***For each course, display the course name, min grade, max grade, average grade, number of attended students.*** |
|  | **SELECT course\_name, MIN(grade) AS min\_grade, MAX(grade) AS max\_grade, AVG(grade) AS avg\_grade, COUNT(student\_id) AS num\_attended\_students**  **FROM courses**  **GROUP BY course\_id;** |
| ***6*** | ***Use subquery to display the names of the students who were born before student no 1.*** |
|  | ***SELECT first\_name, last\_name FROM students WHERE birth\_date < (SELECT birth\_date FROM students WHERE student\_id =1);*** |
| ***7*** | ***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');*** |