**MySQL Labs**

**MySQL (Day3):**

|  |  |
| --- | --- |
| ***1*** | ***Update students courses table, set the registration date value to “Today”;*** |
|  | ***UPDATE students\_courses SET reg\_date = CURDATE();*** |
| ***2*** | ***Display the registration date in the following format:***  ***Day, month/ year*** |
|  | ***SELECT DATE\_FORMAT(reg\_date, '%W, %M/%Y') as formatted\_reg\_date 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 UCASE(s.last\_name) as capitalized\_last\_name, IFNULL(sc.grade, 'absent') as grade\_or\_absent***  ***FROM students s***  ***LEFT JOIN students\_courses sc ON s.student\_id = sc.student\_id;*** |
| ***4*** | ***Display students' names, course name along with their grades.*** |
|  | ***SELECT s.first\_name, s.last\_name, c.course\_name, sc.grade***  ***FROM students\_courses sc***  ***JOIN students s ON sc.student\_id = s.student\_id***  ***JOIN courses c ON sc.course\_id = c.course\_id;*** |
| ***5*** | ***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) as max\_grade, AVG(sc.grade) as avg\_grade, COUNT(sc.student\_id) as attended\_students***  ***FROM students\_courses sc***  ***JOIN courses c ON sc.course\_id = c.course\_id***  ***GROUP BY sc.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');*** |