## MySQL Labs

MySQL (Day3): BY"AYA EID

```
1
       Update students courses table, set the registration date value to "Today";
        ariaDB [os2]> update students_courses set reg_date=now() ;
uery OK, 6 rows affected, 6 warnings (0.078 sec)
ows matched: 6 Changed: 6 Warnings: 6
         ariaDB [os2]> select * from students_courses ;
         student_id | course_id | grade | reg_date
         rows in set (0.000 sec)
2
       Display the registration date in the following format:
                                                              Day, month/ year
        MariaDB [os2]> SELECT
-> student_id , course_id ,
-> DATE_FORMAT(reg_date,'%d, %M/ %Y')
-> as reg_date
-> FROM students_courses ;
         student_id | course_id | reg_date
                              1 | 01, December/ 2022
2 | 01, December/ 2022
3 | 01, December/ 2022
2 | 01, December/ 2022
3 | 01, December/ 2022
4 | 01, December/ 2022
       Display the capitalized last name, and the grade, if he has no grade display the
       keyword absent. [using if NULL function]
        80
90
100
99
80
70
                   absent
absent
         rows in set (0.000 sec)
ź
       Display students' names, course name along with their grades.
```

```
MariaDB [os2]> select concat(first_name,last_name) as 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;
+-
                       | course_name | grade |
         AhmedAly
                       Database
                                          80
         AhmedAly
         AhmedAly Network
AhmedIbrahim C
AhmedIbrahim Network
Ahmed Ossama OS
                                          100
         rows in set (0.184 sec)
        MariaDB [os2]>
      For each course, display the course name, min grade, max grade, average grade,
٥
       number of attended students.
        MariaDB [os2]> select course_name,min(grade),max(grade),avg(grade),count(course_name)
            -> from courses c,students_courses cs
            -> where c.course_id=cs.course_id
            -> group by course_name ;
         course_name | min(grade) | max(grade) | avg(grade) | count(course_name) |
                                   90
                                                             94.5000
         Database
                                    80
                                                   80
                                                             80.0000
          Network
                                    80
                                                  100
                                                             90.0000
                                                             70.0000
        4 rows in set (0.001 sec)
       Use subquery to display the <u>names of the students</u> who were born before
       student no 1.
       lariaDB [os2]> select concat(first_name,last_name) as name from students
    -> where birth_date <(select birth_date from students where student_id=1);</pre>
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        rows in set (0.001 sec)
V
       Use subquery to display the data of all the courses with a credit hour similar to
       MySQL's credit hours
        lariaDB [os2]> select student_id,c.course_id,course_name,credit_hour,grade,reg_date
            -> from courses c,students_courses sc
-> where c.course_id=sc.course_id
            -> and credit_hour=(select credit_hour from courses where course_name="MySQL");
         student_id | course_id | course_name | credit_hour | grade | reg_date
                                 1 | Database
                                                                2 | 80 | 2022-12-01 |
         row in set (0.141 sec)
```