LAB 03:

STUDENT Table;

Snum Name Name Level Age  
101 Susan Gurung Software Bachelor 24  
102 Sam KC Computer Bachelor 23  
103 Hari Rai Electronics Masters 25  
104 Gopal Shrestha Software Bachelor 26

CLASS Table;

Name Time Room Fid  
C++ M9-10 R3 F501  
MATHS M8-9 R4 F505  
C++ E5-6 R7 F501  
PHYSICS E5-6 R6 F508

ENROLLED Table;

Snum Classname  
101 C++  
102 C++  
103 PHYSICS  
104 MATHS

FACULTY Table;

Fid Name Dept  
F501 B.Shrestha Computer  
F505 R.Thapa Maths  
F508 S.Tamrakar Computer  
F509 P.Acharya Science

1. Find the names of all Software Majors (Major = "Software").

MariaDB [collmgmtsys]> select \* from student

-> where Major = 'Software';

+------+----------------+----------+----------+------+

| Snum | Name | Major | Level | Age |

+------+----------------+----------+----------+------+

| 101 | Susan Gurung | Software | Bachelor | 24 |

| 104 | Gopal Shrestha | Software | Bachelor | 26 |

+------+----------------+----------+----------+------+

2 rows in set (0.000 sec)

2. Retrieve the list of names, age and major of all the students.

MariaDB [collmgmtsys]> select Name,Age,Major from student;

+----------------+------+------------+

| Name | Age | Major |

+----------------+------+------------+

| Susan Gurung | 24 | Software |

| Sam KC | 23 | Computer |

| Hari Rai | 25 | Electronic |

| Gopal Shrestha | 26 | Software |

+----------------+------+------------+

4 rows in set (0.000 sec)

3. Find the names of all Software Majors (Major = "Software") who are aged more than 25.

MariaDB [collmgmtsys]> select \* from student

-> where Major='Software' AND Age > 25;

+------+----------------+----------+----------+------+

| Snum | Name | Major | Level | Age |

+------+----------------+----------+----------+------+

| 104 | Gopal Shrestha | Software | Bachelor | 26 |

+------+----------------+----------+----------+------+

1 row in set (0.000 sec)

4. Find all the students whose name start with ‘S’.

MariaDB [collmgmtsys]> select \* from student

-> where Name Like 'S%';

+------+--------------+----------+----------+------+

| Snum | Name | Major | Level | Age |

+------+--------------+----------+----------+------+

| 101 | Susan Gurung | Software | Bachelor | 24 |

| 102 | Sam KC | Computer | Bachelor | 23 |

+------+--------------+----------+----------+------+

2 rows in set (0.000 sec)

5. Find the names of all faculties having ‘T’ as the initial of the surnames.

MariaDB [collmgmtsys]> select \* from faculty

-> where Name LIKE '\_\_T%';

+------+------------+----------+

| Fid | Name | Dept |

+------+------------+----------+

| F505 | R.Thapa | Maths |

| F508 | S.Tamrakar | Computer |

+------+------------+----------+

2 rows in set (0.000 sec)

6. List all the subject names and the room they are taught in at 5-6 of Evening time.

MariaDB [collmgmtsys]> select \* from class

-> where Time='E5-6';

+---------+------+------+------+

| Name | Time | Room | Fid |

+---------+------+------+------+

| C++ | E5-6 | R7 | F501 |

| PHYSICS | E5-6 | R6 | F508 |

+---------+------+------+------+

2 rows in set (0.001 sec)

7. Display all the faculty information sorted in an ascending order based on Department and sort by Fid when repetition occurs.

MariaDB [collmgmtsys]> select \* from faculty

-> order by Dept ASC , Fid ASC;

+------+------------+----------+

| Fid | Name | Dept |

+------+------------+----------+

| F501 | B.Shrestha | Computer |

| F508 | S.Tamrakar | Computer |

| F505 | R.Thapa | Maths |

| F509 | P.Acharya | Science |

+------+------------+----------+

4 rows in set (0.000 sec)

8. Find the names of all classes that either meet in room R3 or are taught by "B.Shrestha ". (hard-coded)

MariaDB [collmgmtsys]> select class.name from class,faculty

-> where class.fid = faculty.fid AND ( class.Room = 'R3' OR faculty.Name = 'B.Shrestha');

+------+

| name |

+------+

| C++ |

| C++ |

+------+

2 rows in set (0.000 sec)

MariaDB [collmgmtsys]> select \* from class,faculty

-> where class.fid = faculty.fid AND ( class.Room = 'R3' OR faculty.Name = 'B.Shrestha');

+------+-------+------+------+------+------------+----------+

| Name | Time | Room | Fid | Fid | Name | Dept |

+------+-------+------+------+------+------------+----------+

| C++ | M9-10 | R3 | F501 | F501 | B.Shrestha | Computer |

| C++ | E5-6 | R7 | F501 | F501 | B.Shrestha | Computer |

+------+-------+------+------+------+------------+----------+

2 rows in set (0.000 sec)

9. Find the names of all students who are enrolled in some class together (C++).

MariaDB [collmgmtsys]> select student.name from student,enrolled

-> where student.Snum = enrolled.Snum AND enrolled.Classname = 'C++';

+--------------+

| name |

+--------------+

| Susan Gurung |

| Sam KC |

+--------------+

2 rows in set (0.000 sec)

10. Find the names of faculty members who are from Computer department.

MariaDB [collmgmtsys]> select Name from faculty

-> where Dept ='Computer';

+------------+

| Name |

+------------+

| B.Shrestha |

| S.Tamrakar |

+------------+

2 rows in set (0.000 sec)

11. Find the names as well as department name of faculty members who teaches at 5-6 of Evening time.

MariaDB [collmgmtsys]> select faculty.Name , faculty.Dept from faculty ,class

-> where faculty.fid = class.fid AND Time = 'E5-6';

+------------+----------+

| Name | Dept |

+------------+----------+

| B.Shrestha | Computer |

| S.Tamrakar | Computer |

+------------+----------+

2 rows in set (0.000 sec)

12. Display the average age of students as ‘Average Age’ of Bachelors level.

13. Find the Classname in which Sam KC is enrolled in.

14. Find the names of all students who are not enrolled in any class taught by "B.Shrestha ".

15. Change the timing of C++ class of Room 3 to morning 7-8.

16. Display all students name studying either of Software or Computer as Major.

17. Delete all the students who is older than 25 years of age.