# 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
<b>PHYSICS</b>	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").

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

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

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

4. Find all the students whose name start with 'S'.

MariaDB [collmgmtsys]> select \* from student

+----+

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++ |

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|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
+----+
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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.
MariaDB [collmgmtsys]> select enrolled.Classname from enrolled, student
-> where enrolled.Snum = student.Snum AND student.Name = 'Sam KC';
++
Classname
++
C++
++
1 row in set (0.009 sec)
14. Find the names of all students who are not enrolled in any class taught by "B.Shrestha".
MariaDB [collmgmtsys]> select student.Name from student,class,enrolled,faculty
-> where faculty.fid = class.fid AND class.Name = enrolled.Classname AND enrolled.Snum = student.Snum AND faculty.Name != 'B.Shrestha';
++
Name

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+----+
| Hari Rai
| Gopal Shrestha |
+----+
2 rows in set (0.001 sec)
15. Change the timing of C++ class of Room 3 to morning 7-8.
MariaDB [(none)]> use collmgmtsys;
Database changed
MariaDB [collmgmtsys]> update class
  -> set Time = 'M7-8'
  \rightarrow where Room = 'R3';
Query OK, 1 row affected (0.041 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [collmgmtsys]> select * from class;
+----+
| Name | Time | Room | Fid |
+----+
|C++
      | M7-8 | R3 | F501 | |
| MATHS | M8-9 | R4 | F505 |
| C++ | E5-6 | R7 | F501 |
| PHYSICS | E5-6 | R6 | F508 |
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+----+
4 rows in set (0.003 sec)
16. Display all students name studying either of Software or Computer as Major.
MariaDB [collmgmtsys]> select Name from student
  -> where Major = 'Software' OR Major = 'Computer';
+----+
| Name
+----+
| Susan Gurung |
| Sam KC
| Gopal Shrestha |
+----+
3 rows in set (0.000 sec)
17. Delete all the students who is older than 25 years of age.
MariaDB [collmgmtsys]> Delete From student
  \rightarrow where Age > 25;
Query OK, 1 row affected (0.014 sec)
MariaDB [collmgmtsys]> select * from student;
+----+
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MariaDB [collmgmtsys]>