

DBMS Lab Quiz

Name : Adarsh Subhas Nayak

SRN : PES1UG20CS620

Roll No : 54

Date : 29/11/2022

SET - 01 :

a) Retrieve the names of all the courses taught by the Professors during the period 2001- 2004.

OutPut:

```
MariaDB [cs620_university_db]> select CourseName from course
-> where CourseNumber
-> IN (select CourseNumber from section
->      where Year>=2001 and Year<=2004
->      );
```

CourseName
OS
DSA
DMS

```
3 rows in set (0.008 sec)
```

b)

Code :

```
create table Student_report (  
    StudentNumber INT NOT NULL,  
    SectionIdentifier INT NOT NULL,  
    Marks INT NOT NULL  
);
```

```
insert into Student_report(  
    StudentNumber,  
    SectionIdentifier  
)  
select StudentNumber,SectionIdentifier FROM grade_report;
```

```
update Student_report set marks = (mod(RAND()*100,10));  
update Student_report set marks = 10*marks;
```

Output :

```
MariaDB [cs620_university_db]> update Student_report set marks = 10*marks;  
Query OK, 7 rows affected (0.022 sec)  
Rows matched: 8  Changed: 7  Warnings: 0  
  
MariaDB [cs620_university_db]> select * from student_report;  
+-----+-----+-----+  
| StudentNumber | SectionIdentifier | Marks |  
+-----+-----+-----+  
|          15 |                1 |    10 |  
|          15 |                2 |    60 |  
|          15 |                3 |    70 |  
|          17 |                4 |    90 |  
|         154 |                4 |    10 |  
|          17 |                5 |    90 |  
|         154 |                5 |    10 |  
|          15 |                6 |     0 |  
+-----+-----+-----+  
8 rows in set (0.000 sec)
```

c) Create a trigger so that the total marks scored by each student is automatically updated in the result sheet whenever a record is inserted into Student_Report.

students_result(StudentNumber,Totalmarks)

Code :

delimiter \$\$

create or replace trigger updation

before insert

on student_report for each row

begin

insert into student_result values(new.studentnumber,new.marks);

end

\$\$

delimiter ;

Output Screenshots:

```
MariaDB [cs620_university_db]> delimiter $$
MariaDB [cs620_university_db]> create or replace trigger updation
  -> before insert
  -> on student_report for each row
  -> begin
  -> insert into student_result values(new.studentnumber,new.marks);
  -> end
  -> $$
Query OK, 0 rows affected (0.020 sec)

MariaDB [cs620_university_db]> delimiter ;
MariaDB [cs620_university_db]>
```

d)

Code :

```
delimiter $$
create or replace function remark(studentno int)
returns varchar(255)
begin
declare remark_msg varchar(255);
declare major_sub varchar(255);
set major_sub = (select major from student where studentnumber =
studentno) ;
if major_sub = 'CS' then
    set remark_msg = "Computer Science Engg";
else
    set remark_msg = "Electronics Engg";
end if;
return remark_msg;
end
$$
delimiter ;
```

Output

```
MariaDB [cs620_university_db]> select remark(15);
+-----+
| remark(15) |
+-----+
| Computer Science Engg |
+-----+
1 row in set (0.024 sec)
```