## **DBMS EXPERIMENTS**

## AMOGH GARG-2020UCO1688 EXPERIMENT-4

## **CREATING TABLES:**

create table student(Roll\_Number int primary key,Name varchar(20),DOB date,Address varchar(20));

alter table student add column marks int;

alter table student add column phone number varchar(10);

create table paper(code int primary key,name\_of\_paper varchar(10));

create table details(Roll\_Number int not null,code int not null,attendance int,marks int,foreign key(Roll\_Number) references student(Roll\_Number), foreign key(code) references paper(code));

## **INSERTING VALUES:**

insert into paper values (1,'Paper-1'),(2,'Paper-2');

insert into student values (1,'Amogh Garg','2002-09-20','UP','80','8130463841'),(2,'Akshat Barwal','2002-02-10','Delhi','85','0909098888');

insert into details values (1,1,90,85),(1,2,95,75),(2,1,100,90),(2,2,90,80);

```
MariaDB [question 4]> select * from student;
 Roll Number | Name
                              DOB
                                           | Address | marks
                                          l UP
               Amogh Garg
                               2002-09-20
                                                          80
                                                               8130463841
               Akshat Barwal
                               2002-02-10 | Delhi
                                                          85
                                                               0909098888
2 rows in set (0.003 sec)
MariaDB [question_4]> select * from paper;
 code
        name of paper
    1
        Paper-1
        Paper-2
2 rows in set (0.001 sec)
MariaDB [question_4]> select * from details;
 Roll_Number | code | attendance | marks
                  1
                                       85
           1
                               90
           1
                  2
                               95
                                       75
                              100
                                       90
            2
                   1
            2
                               90
                                       80
 rows in set (0.001 sec)
```

- Table student- Primary key is Roll\_Number
   Table paper- Primary key is code;
   Table details- Foreign key is Roll\_Number and code
- 2. select s.Roll\_Number,s.Name,s.DOB,s.Address,s.phone\_number from student s,details d where s.Roll\_Number=d.Roll\_Number and d.code=2 and d.attendance>75 and d.marks>60;

3. select s.Roll\_Number,s.Name,s.DOB,s.Address,s.phone\_number from student s,details d where s.Roll\_Number=d.Roll\_Number and d.code=1 and s.Address='Delhi' and d.marks>60;

4. select s.Roll\_Number,s.Name,sum(d.marks),sum(d.attendance) from student s,details d where s.Roll\_Number=d.Roll\_Number group by d.Roll\_Number;

5. select s.Roll\_Number,s.Name,s.DOB,s.Address,s.phone\_number from student s,details d where s.Roll\_Number=d.Roll\_Number and d.code=2 order by d.marks desc limit 1;