

Q.2 Create a database having three tables to store the details of students of Computer Department in your college, as per the given schema.

Personal information about Student (College roll number, Name of student, Date of birth, Address, Marks(rounded off to whole number) in percentage at 10 + 2, Phone number)

Paper Details (Paper code, Name of the Paper)

Student's Academic and Attendance details (College roll number, Paper code, Attendance, Marks in home examination).

a) Identify primary and foreign keys. Create the tables and insert at least 5 records in each table.

b) Design a query that will return the records (from the second table) along with the name of student from the first table, related to students who have more than 75% attendance and more than 60% marks in paper 2.

c) List all students who live in "Delhi" and have marks greater than 60 in paper 1.

d) Find the total attendance and total marks obtained by each student.

e) List the name of student who has got the highest marks in paper 2.

## ANSWER 2

use db;

```
create table std_info(  
Roll_no int(10) primary key,  
Name varchar(30) not null,  
dob date,  
Address varchar(50),  
Marks int(3),  
Phone_number varchar(10));
```

```
create table Paper_details(  
Paper_code int(10) primary key,  
Paper_name varchar(20));
```

```
create table Academic_details(  
Roll_no int(10),  
Paper_code int(10) not null,  
Attendance int(10) not null,  
homeexam_marks int(3)  
primary key(Roll_no,Paper_code));
```

(a) Roll\_no is the primary key for the table std\_info, Paper\_code is the primary key of table Paper\_details and Roll\_no, Paper\_code is the primary key of table Academic\_details. Academic\_details have two foreign keys viz. Roll\_no and Paper\_code.

```
Insert into std_info values (2344, 'Pulkit', '2001-02-28', 'Palam', 86, '9865785264');
Insert into std_info values (2206, 'Rajesh', '1999-03-19', 'Lucknow', 96, '8745698512');
Insert into std_info values (3258, 'Nikhil', '2001-03-12', 'Noida', 88, '7896589658');
Insert into std_info values (1327, 'Ankit', '2001-07-16', 'Delhi', 91, '8825394198');
Insert into std_info values (1245, 'piyush', '2001-07-19', 'Gaziabad', 89, '7598412365');
```

```
Insert into paper_details values (, 'Algebra');
Insert into paper_details values (552, 'Probability');
Insert into paper_details values (604, 'DBMS');
Insert into paper_details values (129, 'EVS');
Insert into paper_details values (566, 'Economics');
```

```
Insert into academic_details values (2344, 100, 85, 96);
Insert into academic_details values (2206, 129, 65, 96);
Insert into academic_details values (3258, 604, 96, 84);
Insert into academic_details values (1327, 566, 94, 69);
Insert into academic_details values (1245, 552, 80, 75);
```

(b) select pd.paper\_code, pd.paper\_name, pi.Name from paper\_details as pd, std\_info as p  
where paper\_code=2 and p.roll\_no In(select roll\_no from academic\_details where  
paper\_code=2 and attendance>75 and marks>60);

(c) select \* from std\_info where  
Address="Delhi" and Marks>60;

(d) select name, Attendance, marks, homeexam\_marks  
from std\_info as s, Academic\_details as a  
where a.Roll\_no=s.Roll\_no;

(e) select name from std\_info where Roll\_no In(  
select Roll\_no from academic\_details where homeexam\_marks in(select  
max(homeexam\_marks) from academic\_details));