Question I

1

create database college;

use college;

create table Student(

rollno int primary key,

name varchar(20) not null,

address varchar(40) not null,

totalmarks int );

create table Course(

cid int primary key,

coursename varchar(20),

fees int );

create table Admission(

rollno int references Student(rollno) on delete cascade,

cid int references Course(cid) on delete cascade,

sem int ,

primary key(rollno,cid));

2

select \* from Student;

insert into Student values(101,'Arun','Mohanavilasam',77);

INSERT INTO Student VALUES ('102', 'Binoy', 'BinoyVilla', '97');

INSERT INTO Student VALUES ('103', 'Adharsh', 'Adharshbhavan', '80');

INSERT INTO Student VALUES ('104', 'Afeef', 'Brighton', '60');

INSERT INTO Student VALUES ('105', 'Don', 'Adoorhome', '48');

INSERT INTO Student VALUES ('106', 'Marvin', 'Kannurhome', '88');

INSERT INTO Student VALUES ('107', 'Arjun', 'Kasargodhome', '47');

select \* from Course;

INSERT INTO Course VALUES (201,'MCA',40000);

INSERT INTO Course VALUES (202,'BCA',30000);

INSERT INTO Course VALUES (203,'BSC',30000);

select \* from Admission;

INSERT INTO Admission VALUES (101,202,4);

INSERT INTO Admission VALUES (105,202,6);

INSERT INTO Admission VALUES (105,203,6);

INSERT INTO Admission VALUES (102,203,3);

INSERT INTO Admission VALUES (103,201,1);

INSERT INTO Admission VALUES (104,201,1);

INSERT INTO Admission VALUES (107,201,1);

INSERT INTO Admission VALUES (106,201,1);

3

create view mcastudents as(

select \* from Student where rollno in(

select rollno from Admission where cid=(

select cid from Course where coursename="MCA") ));

select \* from mcastudents;

|  |  |  |  |
| --- | --- | --- | --- |
| 103 | Adharsh | Adharshbhavan | 80 |
| 104 | Afeef | Brighton | 60 |
| 106 | Marvin | Kannurhome | 88 |
| 107 | Arjun | Kasargodhome | 47 |

4

select sum(fees) from Course where cid in (

select cid from Admission where rollno=105);

60000

5

select f.coursename,s.count from Course f natural join(

select cid,count(rollno) as count from Admission group by cid) s ;

|  |  |
| --- | --- |
| MCA | 4 |
| BCA | 2 |
| BSC | 2 |