Create database named as university.

Create table structure for the following .

insert data into the tables

department (deptId, name, hod, phone)

professor (empId, name, sex, startYear, deptNo, phone)

course (courseId, ename, credits, deptNo)

enrollment (rollNo, courseId, sem, year, grade)

teaching (empId, courseId, sem, year, classRoom)

preRequisite (preReqCourse, courseID)

STUDENT_TABLE:-

	roll_no	degree	Yr	sex	dept_no	advisor_no	s_name
•	55	BE(e&tc)	3	male	400	1004	aman_kashyap
	57	Automation	1	female	400	1004	ashiya_aloney
	58	BE(CIVIL)	1	female	300	1003	ankita_paul
	59	B.COM	2	female	90	1006	apeksha_patil
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

DEPARTMENT_TABLE:-

	dept_id	dname	phone_no	hod_no
•	90	MBA	223459	1006
	100	mechanical	225678	1001
	200	Π	213673	1002
	300	civil	245012	1003
	400	EEE	289001	1004
	NULL	NULL	NULL	NULL

PROFESSOR_TABLE:-

	emp_id	p_name	sex	startYear	phone_no	dept_no
٠	1001	Ashruti_hanskar	female	2012	213450	100
	1002	roshan_paul	male	2011	214320	200
	1003	gazal_mulchandani	female	2013	221133	300
	1004	abhijit_kulkarni	male	2016	251112	400
	1006	shaily_mehta	female	2015	234566	90
	NULL	NULL	NULL	NULL	NULL	NULL

COURSE_TABLE:-

	c_id	c_name	credits	dept_no
•	24500	BE(CIVIL)	5/sem=40	300
	24502	CONSTRUCTION.MANGT	5/sem=20	300
	24503	M.COM	5/sem=20	90
	24504	BCA	5/sem=30	200
	24505	MCA	5/sem=30	200
	24506	BE(e&tc)	5/sem=40	400
	24507	Automation	5/sem=20	400
	24508	BE(mech)	5/sem=40	100
	24509	ME(mech)	5/sem=20	100
	24510	B.COM	5/sem=30	90
	NULL	NULL	NULL	NULL

ENROLLMENT_TABLE:-

▶ 55 24506 5 3 B 57 24507 2 1 A+ 58 24500 1 1 A 59 24510 4 2 B+
58 24500 1 1 A
FO 24F10 4 2 B1
2.010
NOTE NOTE NOTE NOTE

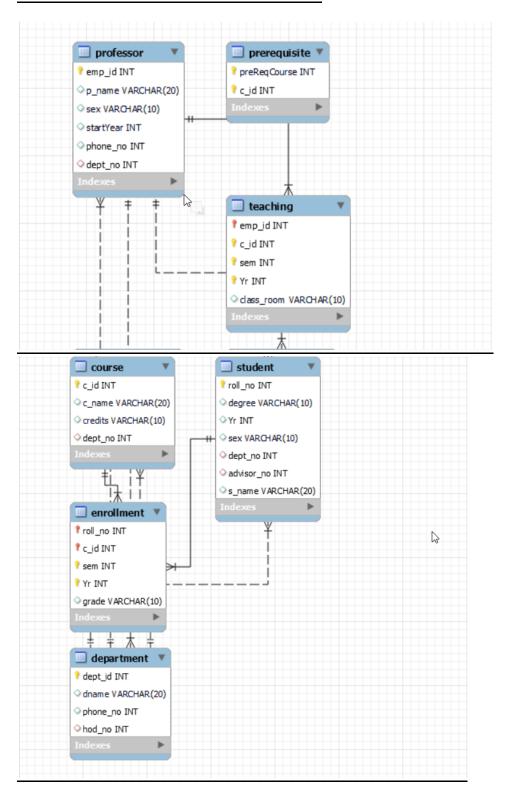
TEACHING_TABLE:-

	emp_id	c_id	sem	Yr	class_room
•	1002	24504	3	2	CR-4
	1003	24500	6	3	CR_21
	1004	24506	2	1	CR-5
	1006	24510	1	1	CR-9
	NULL	HULL	NULL	HULL	NULL

PREREQUISITE_TABLE:-

	preReqCourse	c_id
١	24500	24502
	24504	24505
	24506	24507
	24508	24509
	24510	24503
	NULL	NULL

ENTITY-RELATIONSHIP DIAGRAM:-



QUERIES:-

```
create database university;
use university;
create table department(dept_id int primary key,
dname varchar(20),
phone_no int unique);
create table professor(emp_id int primary key,
p_name varchar(20),
sex varchar(10),
startYear int,
phone_no int unique);
create table student(roll_no int primary key,
degree varchar(10),
Yr int,
sex varchar(10),
dept_no int,
```

```
advisor_no int,
constraint cStudent1 foreign key(dept no) references department(dept id),
constraint cStudent2 foreign key(advisor no) references professor(emp id)
);
create table course(c_id int primary key,
c_name varchar(20),
credits varchar(10),
dept no int,
constraint cCourse1 foreign key(dept no) references department(dept id)
);
create table enrollment( roll no int,
c id int,
sem int,
Yr int,
grade varchar(10),
constraint cEnrollment1 primary key(roll no,c id,sem,Yr),
constraint cEnrollment2 foreign key(roll no) references student(roll no),
constraint cEnrollment3 foreign key(c_id) references course(c_id)
);
create table teaching(emp id int,c id int,sem int,Yr int,class room varchar(10),
constraint cTeaching1 primary key(emp_id,c_id,sem,Yr),
```

```
constraint cTeaching2 foreign key(emp_id) references professor(emp_id)
);
create table PreRequisite(preReqCourse int,
c id int,
constraint cPR primary key(preReqCourse,c id)
);
Alter table department add hod_no int;
Alter table professor add dept no int;
Alter table department add constraint cDept1 foreign key(hod no) references
professor(emp_id);
Alter table professor add constraint cProf1 foreign key(dept no) references
department(dept_id);
desc Student;
desc department;
desc professor;
desc course;
desc enrollment;
desc teaching;
desc PreRequisite;
insert into department(dept_id,dname,phone_no) values
(100, "mechanical", 225678);
select * from department;
insert into department(dept id,dname,phone no) values (90,"physics",223459);
```

```
insert into department(dept_id,dname,phone_no) values (200,"IT",213673);
insert into department(dept_id,dname,phone_no) values (300,"civil",245012);
insert into department(dept id,dname,phone no) values (400,"EXTC",289001);
select * from department;
insert into professor(emp_id,p_name,sex,startYear,phone no) values
(1001,"Ashruti hanskar","female",2012,213450);
update professor set dept no=100 where emp id=1001;
select * from professor;
select * from department;
insert into professor(emp_id,p_name,sex,startYear,phone_no,dept_no) values
(1006, "shaily mehta", "female", 2015, 234566, 90);
insert into professor(emp_id,p_name,sex,startYear,phone_no,dept_no) values
(1002, "roshan paul", "male", 2011, 214320, 200);
insert into professor(emp_id,p_name,sex,startYear,phone_no,dept_no) values
(1004, "abhijit kulkarni", "male", 2016, 251112, 400);
insert into professor(emp_id,p_name,sex,startYear,phone_no,dept_no) values
(1003, "gazal mulchandani", "female", 2013, 221133, 300);
select * from professor;
Alter table student add column s name varchar(20);
desc student;
select * from professor;
select * from department;
update department set dname="EEE" where dept id=400;
```

```
delete from department where dept id=90;
select * from department;
update department set dname="MBA" where dept id=90;
select * from department;
select * from department;
delete from department where dname="mechanical";
select * from department;
select * from course;
insert into course(c id,c name,credits,dept no) values
(24500,"BE(CIVIL)","5/sem=40",300);
insert into course(c id,c name,credits,dept no) values
(24502,"CONSTRUCTION.MANGT","5/sem=20",300);
insert into course(c_id,c_name,credits,dept_no) values
(24501,"B.COM","5/sem=30",90);
insert into course(c_id,c_name,credits,dept_no) values
(24503,"M.COM","5/sem=20",90);
insert into course(c id,c name,credits,dept no) values
(24504,"BCA","5/sem=30",200);
insert into course(c id,c name,credits,dept no) values
(24505,"MCA","5/sem=30",200);
insert into course(c_id,c_name,credits,dept_no) values
(24506,"BE(e&tc)","5/sem=40",400);
insert into course(c_id,c_name,credits,dept_no) values
(24507,"Automation","5/sem=20",400);
```

```
insert into course(c id,c name,credits,dept no) values
(24508,"BE(mech)","5/sem=40",100);
insert into course(c_id,c_name,credits,dept_no) values
(24509,"ME(mech)","5/sem=20",100);
select * from course;
insert into course(c id,c name,credits,dept no) values
(24510,"B.COM","5/sem=30",90);
select * from course:
select * from professor;
select * from student;
insert into student(roll_no,degree,Yr,sex,dept_no,advisor no,s name) values
(59,"B.COM",2,"female",90,1006,"apeksha patil");
select * from student;
insert into student(roll_no,degree,Yr,sex,dept_no,advisor_no,s_name) values
(58, "BE(CIVIL)", 1, "female", 300, 1003, "ankita paul");
insert into student(roll no,degree,Yr,sex,dept no,advisor no,s name) values
(55,"BE(e&tc)",3,"male",400,1004,"aman kashyap");
insert into student(roll_no,degree,Yr,sex,dept_no,advisor no,s name) values
(57,"Automation",1,"female",400,1004,"ashiya aloney");
update department set hod no=1006 where dname="MBA";
update department set hod_no=1002 where dname="IT";
select * from department;
update department set hod no=1001 where dname="mechanical";
update department set hod no=1003 where dname="civil";
```

```
update department set hod no=1004 where dname="EEE";
select * from department;
select * from student;
insert into enrollment(roll_no,c_id,sem,Yr,grade) values (57,24507,2,1,"A+");
select * from student;
insert into enrollment(roll_no,c_id,sem,Yr,grade) values (58,24500,1,1,"A");
select * from student;
insert into enrollment(roll_no,c_id,sem,Yr,grade) values (55,24506,5,3,"B");
insert into enrollment(roll no,c id,sem,Yr,grade) values (59,24510,4,2,"B+");
select * from enrollment;
desc teaching;
insert into teaching(emp_id,c_id,sem,Yr,class_room) values (1001,24508,2,3,"CR-
2");
insert into teaching(emp_id,c_id,sem,Yr,class_room) values (1002,24504,3,2,"CR-
4");
insert into teaching(emp id,c id,sem,Yr,class room) values
(1003,24500,6,3,"CR 21");
insert into teaching(emp_id,c_id,sem,Yr,class_room) values (1004,24506,2,1,"CR-
5");
insert into teaching(emp_id,c_id,sem,Yr,class_room) values (1006,24510,1,1,"CR-
9");
select * from teaching;
```

```
desc PreRequisite;
insert into PreRequisite(preReqCourse,c_id) values (24500,24502);
insert into PreRequisite(preReqCourse,c id) values (24510,24503);
insert into PreRequisite(preReqCourse,c id) values (24504,24505);
insert into PreRequisite(preReqCourse,c id) values (24506,24507);
insert into PreRequisite(preReqCourse,c_id) values (24508,24509);
select * from PreRequisite;
select * from student;
SELECT * FROM department;
select * from professor;
select * from course;
select * from enrollment;
select * from teaching;
select * from PreRequisite;
```