College_Database

→content:

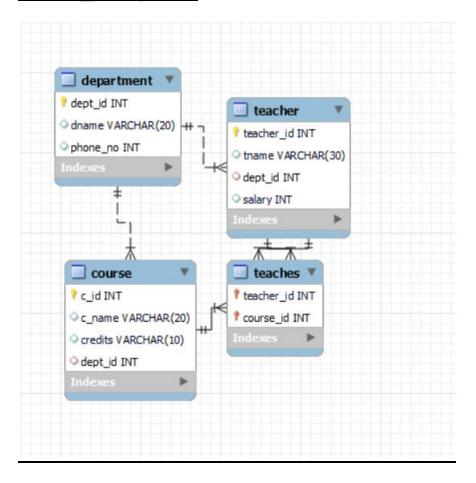
ER-diagram

Tables

Questions

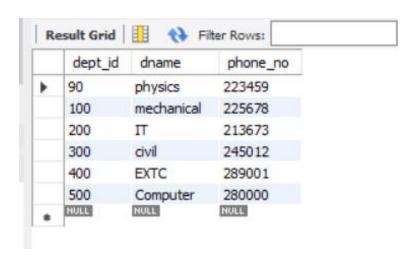
Queries

→ER_Diagram

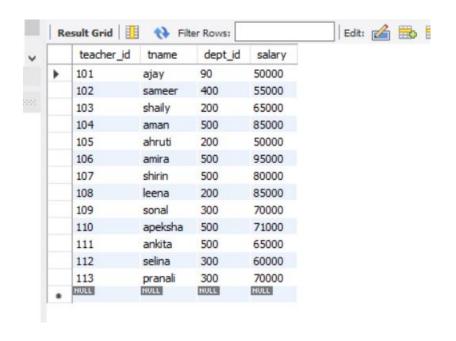


→Tables:

1:department:



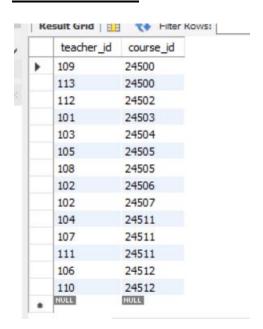
2:Teacher:



3:Course:

	c_id	c_name	credits	dept_id
•	24500	BE(CIVIL)	5/sem=40	300
	24501	B.COM	5/sem=30	90
	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
	24511	datascience	5/sem=30	500
	24512	RDBMS	5/sem=30	500
	NULL	NULL	NULL	NULL

4:Teaches:

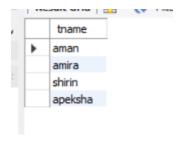


→Questions:

1)

```
/*find the names of all teachers in computer department who have salary greater than 70000*/
select t.tname
from teacher t,department d
where t.dept_id=d.dept_id
and d.dname="Computer"
and t.salary>70000;
```

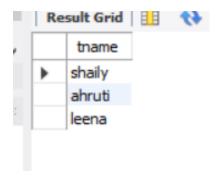
Output:



2)

```
/*find the names of teachers who are working in IT department*/
select t.tname
from teacher t,department d
where t.dept_id=d.dept_id
and dname="IT";
```

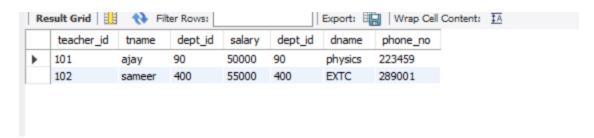
Output:



3)

```
/*find record of teacher name "ajay" and "sameer" using in construct*/
select * from teacher t,department d
where t.tname in("ajay","sameer")
and t.dept_id=d.dept_id;
```

Output:



→ Queries:

create database college;

```
use college;
create table department(dept_id int primary key,
dname varchar(20),
phone_no int unique);
create table teacher(teacher_id int primary key,
tname varchar(30),
dept_id int,
foreign key(dept_id) references department(dept_id));
alter table teacher add salary int;
desc teacher;
create table course(c_id int primary key,
c_name varchar(20),
credits varchar(10),
dept_id int,
foreign key(dept_id) references department(dept_id)
);
```

```
insert into department(dept id,dname,phone no) values
(100, "mechanical", 225678);
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);
insert into department(dept_id,dname,phone_no) values
(500,"Computer",280000);
select * from department;
insert into teacher (teacher id,tname,dept id,salary) values
(101,"ajay",90,50000);
insert into teacher(teacher_id,tname,dept_id,salary) values
(102, "sameer", 400, 55000);
insert into teacher(teacher_id,tname,dept_id,salary) values
(105,"ahruti",200,50000);
insert into teacher(teacher_id,tname,dept_id,salary) values
(103, "shaily", 200, 65000);
insert into teacher (teacher id,tname,dept id,salary) values
(104,"aman",500,85000);
insert into teacher (teacher id,tname,dept id,salary) values
(106, "amira", 500, 95000);
```

insert into teacher(teacher_id,tname,dept_id,salary) values (107,"shirin",500,80000);

insert into teacher(teacher_id,tname,dept_id,salary) values
(108,"leena",200,85000);

insert into teacher(teacher_id,tname,dept_id,salary) values (109,"sonal",300,70000);

insert into teacher(teacher_id,tname,dept_id,salary) values (110,"apeksha",500,71000);

insert into teacher(teacher_id,tname,dept_id,salary) values (111,"ankita",500,65000);

insert into teacher(teacher_id,tname,dept_id,salary) values (112,"selina",300,60000);

insert into teacher(teacher_id,tname,dept_id,salary) values
(113,"pranali",300,70000);

insert into course(c_id,c_name,credits,dept_id) values
(24500,"BE(CIVIL)","5/sem=40",300);

insert into course(c_id,c_name,credits,dept_id) values
(24501,"B.COM","5/sem=30",90);

insert into course(c_id,c_name,credits,dept_id) values (24502,"CONSTRUCTION.MANGT","5/sem=20",300);

insert into course(c_id,c_name,credits,dept_id) values

```
(24504,"BCA","5/sem=30",200);
insert into course(c id,c name,credits,dept id) values
(24503,"M.COM","5/sem=20",90);
insert into course(c id,c name,credits,dept id) values
(24506,"BE(e&tc)","5/sem=40",400);
insert into course(c_id,c_name,credits,dept_id) values
(24505,"MCA","5/sem=30",200);
insert into course(c id,c name,credits,dept id) values
(24508,"BE(mech)","5/sem=40",100);
insert into course(c id,c name,credits,dept id) values
(24507,"Automation","5/sem=20",400);
insert into course(c id,c name,credits,dept id) values
(24509,"ME(mech)","5/sem=20",100);
select * from course;
insert into course(c id,c name,credits,dept id) values
(24510,"B.COM","5/sem=30",90);
select * from course;
insert into course(c id,c name,credits,dept id) values
(24511,"datascience","5/sem=30",500);
insert into course(c id,c name,credits,dept id) values
(24512,"RDBMS","5/sem=30",500);
```

```
create table teaches(teacher_id int,course_id int);

alter table teaches add constraint c11 primary key(teacher_id,course_id);

alter table teaches add constraint c022 foreign key(teacher_id) references
teacher(teacher_id);

alter table teaches add constraint ccourse1 foreign key(course_id) references
course(c_id);
```

```
insert into teaches(teacher id,course id) values (101,24503);
insert into teaches(teacher id,course id) values (102,24506);
insert into teaches(teacher id,course id) values (102,24507);
insert into teaches(teacher id,course id) values (103,24504);
insert into teaches(teacher id,course id) values (105,24505);
insert into teaches(teacher id,course id) values (104,24511);
insert into teaches(teacher id,course id) values (106,24512);
insert into teaches(teacher id,course id) values (107,24511);
insert into teaches(teacher id,course id) values (110,24512);
insert into teaches(teacher_id,course_id) values (111,24511);
insert into teaches(teacher id,course id) values (107,24511);
insert into teaches(teacher id,course id) values (109,24500);
insert into teaches(teacher id,course id) values (112,24502);
insert into teaches(teacher id,course id) values (113,24500);
```

```
insert into teaches(teacher_id,course_id) values (108,24505);
select * from department;
select * from teacher;
select * from course;
select * from teaches;
/*find the names of all teachers in computer department who have salary greater
than 70000*/
select t.tname
from teacher t, department d
where t.dept_id=d.dept_id
and d.dname="Computer"
and t.salary>70000;
/*find the names of teachers who are working in IT department*/
select t.tname
from teacher t, department d
where t.dept_id=d.dept_id
and dname="IT";
```

```
/*find record of teacher name "ajay" and "sameer" using in construct*/
select * from teacher t,department d
where t.tname in("ajay","sameer")
and t.dept_id=d.dept_id;
```