190905104
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Lab2

1)
```sql
create table EMPLOYEE(
emp_no number(10) primary key,
emp_name varchar(20) not null,
gender char(2) not null,
salary number(10,2) not null,
address varchar(50) not null,
dno number(10),
check(gender in ('f','m')));
```

2)
```sql
create table DEPARTMENT(
dept_no number(5) primary key,
dept_name varchar(10) unique,
location varchar(10));
```

3)
```sql
alter table EMPLOYEE ADD CONSTRAINT ABC FOREIGN KEY(dno) references
DEPARTMENT(dept_no);
```

4)
```sql
insert into DEPARTMENT(dept_no,dept_name,location) values(2511, 'CSE','Manipal');
insert into DEPARTMENT(dept_no,dept_name,location) values(2432, 'ECE','Manipal');
insert into DEPARTMENT(dept_no,dept_name,location) values(2986, 'EEE','Manipal');
insert into EMPLOYEE(emp_no,emp_name,gender,salary,address,dno)
values(1,'Matt','m',100000,'Manipal','2511');
insert into EMPLOYEE(emp_no,emp_name,gender,salary,address,dno)
values(2,'Angela','f',100000,'Manipal','2432');
insert into EMPLOYEE(emp_no,emp_name,gender,salary,address,dno)
values(3,'Ruth','m',100000,'Manipal','2986');
```

5)
```sql
insert into DEPARTMENT(dept_no,dept_name,location) values(2525, 'CSE','Manipal');

insert into EMPLOYEE(emp_no,emp_name,gender,salary,address,dno)
values(4,'Mattss','u',100000,'Manipal','2511');
insert into EMPLOYEE(emp_no,emp_name,gender,salary,address,dno)
values(2,'Angela','f',100000,'Manipal','2432');
```

6)
```
DELETE FROM DEPARTMENT WHERE DeptNo = 2;
```

7)
```
alter table EMPLOYEE drop constraint ABC;
alter table EMPLOYEE add constraint FK_DNo foreign key(dno) references
DEPARTMENT(dept_no) ON DELETE CASCADE;
```

8)
```
alter table EMPLOYEE modify salary default 10000;
insert into EMPLOYEE(emp_no,emp_name,gender,salary,address,dno)
values(2,'Angela','f',DEFAULT,'Manipal','2432');
```

9)
```
select name,dept_name from student;
```

10)
```
select name, dept_name from instructor where dept_name='Comp. Sci.';
```

11)
```
select title,credits from course where dept_name='Comp. Sci.' and credits=3;
```

12)
```
select title,course_id from course natural join takes where ID=12345;
```

13)
```
select name,salary from instructor where salary between 40000 and 90000;
```

14)
```
Select instructor.id from instructor where id not in (select distinct teaches.id from teaches);
```

15)
```
select name,title,takes.year from student, section, course, takes where
room_number=303 and course.course_id = section.course_id and course.course_id =
takes.course_id and takes.id = student.id and takes.year = section.year and takes.sec_id =
section.sec_id and section.semester = takes.SEMESTER;
```

16)
```
select student.id, course.title as c_name from student,course,takes where year=2015 and
takes.course_id=course.course_id and takes.id=student.id;
```

17)
```
select name,salary as inst_salary from instructor where salary > some
```

(select salary from instructor where dept_name = 'Comp. Sci.');
18)
select name,dept_name from instructor where dept_name like '%ch%';

19)
Select name,LENGTH(name) from student;

20)
select dept_name,substr(dept_name,3,3) from department;

21)
select UPPER(name) from instructor;

22)
select NVL(grade, 'F') from takes;

23)
select salary, ROUND(salary/3,-2) from instructor;