Create a table teacher with field staffed, name, dno, salary, designation with staffed as primary key, name as not null, dno as foreign key, salary and designation as not null. Create another table dept with fields dno as primary key, dname as not null.

a) Insert five records into the tables.

Create table dept(dno int primary key, dname text not null);

Insert into dept values(101,'physics');

Insert into dept values(102,'cs');

Insert into dept values(103,'malayalam');

Insert into dept values(104,'maths');

Insert into dept values(105,'english');

Select * from dept;

dno	dname
[PK]integer	text
1	101 physics
2	102 cs
3	103 Malayalam
4	104 maths
5	105 English

Create table teacher(staffed int primary key,name text not null,dno int references dept,salary int not null,designation text not null);

insert into teacher value(1,’Alex’,101,60000,’prof’);

insert into teacher value(2,’Daisy’,102,60000,’prof’);

insert into teacher value(3,’Vishnu’,102,100000,’hod’);

insert into teacher value(4,’vivek’,101,40000,’astprof’);

insert into teacher value(5,’shan’,103,40000,’astprof’);

select*from teacher;

staffed	name	dno	salary	designation
[PK]integer	text	integer	integer	text
1	1 Alex	101	60000	prof
2	2 Daisy	102	60000	prof
3	3 Vishnu	102	100000	hod
4	4 Vivek	101	40000	astprof
5	5 Shan	103	40000	astprof

b) Write various character functions on name field

Select initcap(name) from teacher;

initcap
text
1 Alex
2 Daisy
3 Vishnu
4 Vivek
5 Shan

Select lower(name) from teacher;

Lower
text
1 alex
2 daisy
3 vishnu
4 vivek
5 shan

Select upper(name) from teacher;

upper
text
1 ALEX
2 DAISY
3 VISHNU
4 VIVEK
5 SHAN

Select length(name) from teacher;

Length	
Integer	
1	4
2	5
3	6
4	5

5 4

c)Display the number of staff in each department

select count(name) from teacher where dno=101;

count
bigint
1 2

d)Add 20%extra salary to all employees who works in physics department.

Update teacher set salary =salary+(salary*20)/100 where dno=101;

Select*from teacher;

Staffid	name	dno	salary	designation
[PK]integer	text	integer	integer	text
1	2 Daisy	102	60000	prof
2	3 Vishnu	102	100000	hod
3	4 Shan	103	40000	astprof
4	1 Alex	101	86400	prof
5	4 Vivek	101	57600	astprof

e)Display the name of teacher who work in CS department;

select name from teacher where dno=102;

	name
	text
1	Daisy
2	Vishnu

f) Delete all teachers who got salary less than average salary

```
delete from teacher where salary<(select avg(salary)from teacher;
```

```
select *from teacher;
```

satffid	name	dno	salary	designation
[PK]integer	text	integer	integer	text
1	3 Vishnu	102	100000	hod

g) Create a view named v1 with field staff id,name,and dname.Displaythe view.

```
create view  v1 as select teacher.staffid,teacher.name,dept.dname  from teacher inner join dept on dept.dno=teacher.dno;
```

```
select*from v1;
```

staffid	name	dname
integer	text	text
1	3 Vishnu	CS