1.Create table employee,dept with following column and insert given data(3 Marks)

```
create table employee(emp_id integer primary key,
Name character varying not null ,
Age Integer not null,
hobbies character varying not null ,
salary integer not null check ( salary > 0 ),
address character varying not Null ,
zip integer unique);
create table dept(dept_id integer primary key,
dept_name character varying ,
e_id integer references employee (emp_id),
manager character varying);
```

2. Q2 INSERT FOLLOWING DATA TO EMPLOYEE (3 Marks

```
insert into employee values (1,'mohit',23,'dancing', 10000, 'Mumbai',500049),
(2,'aniket',27,'painting', 20000, 'mumbai',500149),
(3,'ajay',31,'singing', 35000, 'delhi',273008),
(4,'priyanka',42,'dancing', 55000, 'delhi',123876),
(5,'deepika',26,'dancing', 10000, 'delhi',500786),
(6,'saloni',28,'singing', 50000, 'Mumbai',400149),
(7,'yash',34,'photography', 40000, 'Mumbai',450049),
(8,'vinay',45,'painting', 70000, 'Mumbai',273006);
insert into dept values (1 ,'ec',8, 'virat'),
(2,'cs',7, 'sachin'),
(3,'it',6, 'rahul'),
(4,'it',5, 'rahul'),
(5,'cs',4, 'sachin'),
(6,'ec',3, 'virat'),
(7,'ec',2, 'virat'),
(8,'ec',1, 'virat');
```

Q. Write a Query to count No. of employees (2 Marks)

```
>>select count (emp_id) from employee;
```

Q.Write a Query to get unique department of employees (2 Marks)

```
>>select distinct(dept_name) from dept;
```

Q.Write a Query to get min,max,avg,sum of salary for all employees (2 Marks)

```
>>select max(salary),min(salary), avg(salary), sum(salary) from employee;
```

Q.Write a Query to get highest salary of an individual based on hobbies (2 Marks)

```
>>select max(salary),hobbies from employee group by hobbies;
```

Q.Write a Query for sum of salary where address starts with 'M' or 'd' (2 Marks)

>>select sum(salary) from employee where address like 'M%' or address like 'd%';

Q.Write a Query to Get all employee details with their department details(2 Marks)

>>select * from employee e join dept d on e.emp_id=d.e_id ;

Q.Write a QUERY TO FIND employees age between 20 and 30 (2 Marks)

>>select name,age from employee where age between 20 and 30;

Q. Write a function to return name,emp_id,dept_name,hobbies,age by passing manager name (10 Marks)

```
>>create or replace function emp(man character varying) returns table
(name character varying ,emp_id integer ,dept_name character varying ,
hobbies character varying ,age integer )
language plpgsql
as $$
begin
return query
select e.name,e.emp_id,d.dept_name,e.hobbies,e.age from employee e join dept d
on e.emp_id=d.e_id where manager=man;
end;
```