ASSIGNMENT NO:2 **DATE:31/08/2016**

PROGRAM TITLE:Create the following tables in SQL with the proper integrity constraints and solve the queries that follow.

Emp1(eid number, name varchar(30), address varchar(35), dno number, salary number);
Dept1(dno number, name varchar(15), regionid number);
Region1(id number , place varchar(15));

Queries:
1) Display the details of all employees who work in the department as 'Ayan Sett'.
2) Find the total no of employees working in 'Calcutta' region.
3) Find the department name where the maximum no of employees work.
4) Find the number of employees who work in the departments where 'Anish' works;
5) Display the name of the departments situated in 'Bangalore'.

PROGRAM CODE:

Table Creation:

Region1:
```
create table region1(id number constraint pkregion1 primary key, place varchar(15));
```

Dept1:
```
create table dept1(dno number constraint pkdept1 primary key, name varchar(15), regionid number, constraint fkdept1regionid2region1id foreign key(regionid) references region1(id));
```

Emp1:
```
create table emp1(eid number constraint pkemp1 primary key, name varchar(30), address varchar(35), dno number, salary number, constraint fkemp1dno2dept1dno foreign key(dno) references dept1(dno));
```

Table Insertion(example):

Region1:
```
SQL> insert into region1 values('&id','&place');
Enter value for id: 01
Enter value for place: Calcutta
old   1: insert into region1 values('&id','&place')
new   1: insert into region1 values('01','Calcutta')

1 row created.
```

Dept1:
```
SQL> insert into dept1 values('&dno','&name','&regionid');
Enter value for dno: 01
Enter value for name: IT
Enter value for regionid: 03
old   1: insert into dept1 values('&dno','&name','&regionid')
```

```
new   1: insert into dept1 values('01','IT','03')

1 row created.
```

Emp1:

```
SQL> insert into emp1
values('&eid','&name','&address','&dno','&salary');
Enter value for eid: 01
Enter value for name: Ayan Sett
Enter value for address: Serampore
Enter value for dno: 01
Enter value for salary: 18000
old   1: insert into emp1
values('&eid','&name','&address','&dno','&salary')
new   1: insert into emp1 values('01','Ayan
Sett','Serampore','01','18000')

1 row created.
```

Final Tables Created:

Region1:

ID	PLACE
1	Calcutta
2	Delhi
3	Bangalore

Dept1:

DNO	NAME	REGIONID
1	IT	3
2	Admin	2
3	HR	1
4	Legal	1
5	Sales	3

Emp1:

EID	NAME	ADDRESS	DNO	SALARY
1	Ayan Sett	Serampore	1	18000
2	Anish	Chadni Chowk	2	20000
3	Suman	Dum Dum	3	21000
4	Priyanka	Howrah	4	25000
5	Roshni	Silk Board	5	22000
6	Riza	Park St.	1	20000
7	Deboshmita	Maidan	1	22000
8	Akash	Girish Park	2	17000
9	Soham	Tollygunge	3	21000
10	Neha	Kempegowda	5	21500
11	Suyash	Naktola	2	26000
12	Nelson	Uganda	4	24000
13	Sonakshi	Char Minar	1	25000

Queries with output:

1)

```
SQL> select * from emp1 where dno=(select dno from emp1 where
```

```
name='Ayan Sett');

    EID NAME         ADDRESS                DNO     SALARY
------- ---------- -------------------- ------  ----------
      1 Ayan Sett    Serampore              1      18000
      6 Riza         Park St.               1      20000
      7 Deboshmita   Maidan                 1      22000
     13 Sonakshi     Char Minar             1      25000
```

2)

```
SQL> select count(eid) as "Total Emps in Calcutta" from emp1
natural join(select dno from dept1,region1 where place='Calcutta'
and regionid=id);

Total Emps in Calcutta
----------------------
                     4
```

3)

```
SQL> select name as “DNAME” from dept1 where dno=(select dno from
emp1 group by dno having count(eid)=(select max(count(eid)) from
emp1 group by dno));

DNAME
---------------
IT
```

4)

```
SQL> select count(eid) as "Employee Count" from emp1 group by dno
having dno=(select dno from emp1 where name like 'Anish');

Employee Count
--------------
             3
```

5)

```
SQL>  select name as "DNAME",place from dept1,region1 where
regionid=id and place ='Bangalore';

DNAME         PLACE
-------- ---------------
IT       Bangalore
Sales    Bangalore
```