DBMS LAB – 7

```
create table EMP(EMPNO int,ENAME varchar(20),JOB varchar(20),DEPTNO int,SAL int);
create table DEPT(DEPTNO int,DNAME varchar(10),LOC varchar(10));

insert into EMP values(1,"Soma","Doctor",1,150000);
insert into EMP values(2,"Sri","Teacher",2,180000);
insert into EMP values(3,"Sanjeev","Engineer",3,300000);
insert into EMP values(4,"Nitin","Developer",4,500000);
insert into EMP values(5,"Mano","CEO",5,9999999);

select * from EMP;
+-------+---------+-----------+--------+---------+
| EMPNO | ENAME   | JOB       | DEPTNO | SAL     |
+-------+---------+-----------+--------+---------+
|     1 | Soma    | Doctor    |      1 |  150000 |
|     2 | Sri     | Teacher   |      2 |  180000 |
|     3 | Sanjeev | Engineer  |      3 |  300000 |
|     4 | Nitin   | Developer |      4 |  500000 |
|     5 | Mano    | CEO       |      5 | 9999999 |
+-------+---------+-----------+--------+---------+


insert into DEPT values(1,"Medical","Mumbai");
insert into DEPT values(2,"Physics","Trichy");
insert into DEPT values(3,"CSE","Bangalore");
insert into DEPT values(4,"CSE","Chennai");
insert into DEPT values(5,"Marketing","Delhi");

select * from DEPT;
+--------+-----------+-----------+
| DEPTNO | DNAME     | LOC       |
+--------+-----------+-----------+
|      1 | Medical   | Mumbai    |
|      2 | Physics   | Trichy    |
|      3 | CSE       | Bangalore |
|      4 | CSE       | Chennai   |
|      5 | Marketing | Delhi     |
+--------+-----------+-----------+


Q1
delimiter $

create procedure emp_rec(in id int)
begin
    select * from EMP where EMPNO =id;
end
$

delimiter ;
call emp_rec(1);
```

```
+-------+-------+--------+--------+--------+
| EMPNO | ENAME | JOB    | DEPTNO | SAL    |
+-------+-------+--------+--------+--------+
|     1 | Soma  | Doctor |      1 | 150000 |
+-------+-------+--------+--------+--------+
```

Q2
delimiter $

```
create procedure emp_insert(in EMPNO int,ENAME varchar(20),JOB varchar(20),DEPTNO int,SAL int)
begin
    insert into EMP values(EMPNO,ENAME,JOB,DEPTNO,SAL);
end
$
```

delimiter ;

```
call emp_insert(6,"EVR","Chef",6,600000);
select * from EMP;
+-------+---------+-----------+--------+---------+
| EMPNO | ENAME   | JOB       | DEPTNO | SAL     |
+-------+---------+-----------+--------+---------+
|     1 | Soma    | Doctor    |      1 |  150000 |
|     2 | Sri     | Teacher   |      2 |  180000 |
|     3 | Sanjeev | Engineer  |      3 |  300000 |
|     4 | Nitin   | Developer |      4 |  500000 |
|     5 | Mano    | CEO       |      5 | 9999999 |
|     6 | EVR     | Chef      |      6 |  600000 |
+-------+---------+-----------+--------+---------+
```

Q3
delimiter $

```
create procedure raise_sal(in id int,in X int)
begin
    update EMP set SAL = SAL + X where EMPNO =id;
end
$
```

delimiter ;

```
call raise_sal(1,10000);
select * from EMP;
```

```
+-------+---------+-----------+--------+---------+
| EMPNO | ENAME   | JOB       | DEPTNO | SAL     |
+-------+---------+-----------+--------+---------+
|     1 | Soma    | Doctor    |      1 |  160000 |
|     2 | Sri     | Teacher   |      2 |  180000 |
|     3 | Sanjeev | Engineer  |      3 |  300000 |
|     4 | Nitin   | Developer |      4 |  500000 |
|     5 | Mano    | CEO       |      5 | 9999999 |
|     6 | EVR     | Chef      |      6 |  600000 |
+-------+---------+-----------+--------+---------+
```

Q4
```
delimiter $

create procedure rem_rec(in emp_name varchar(20))
begin
    delete from EMP where ENAME=emp_name;
end
$

delimiter ;

call rem_rec("EVR");
select * from EMP;
```
```
+-------+---------+-----------+--------+---------+
| EMPNO | ENAME   | JOB       | DEPTNO | SAL     |
+-------+---------+-----------+--------+---------+
|     1 | Soma    | Doctor    |      1 |  160000 |
|     2 | Sri     | Teacher   |      2 |  180000 |
|     3 | Sanjeev | Engineer  |      3 |  300000 |
|     4 | Nitin   | Developer |      4 |  500000 |
|     5 | Mano    | CEO       |      5 | 9999999 |
+-------+---------+-----------+--------+---------+
```

Q5
```
delimiter $

create function min_sal()
returns int
deterministic
begin
    return (select min(SAL) from EMP);
end
$
delimiter ;

select min_sal() as ans;
```
```
+--------+
| ans    |
+--------+
| 160000 |
+--------+
```

Q6
```
delimiter $

create function count_emp()
returns int
deterministic
begin
    return (select count(ENAME) from EMP);
end
$
delimiter ;

select count_emp() as ans;
```
```
+------+
| ans  |
```

```
+------+
|    5 |
+------+
```

Q7
```
delimiter $

create function disp_sal()
returns int
deterministic
begin
    return (select SAL from EMP where EMPNO=5);
end
$
delimiter ;

select disp_sal() as ans;
+---------+
| ans     |
+---------+
| 9999999 |
+---------+
```

Q8
```
delimiter $

create function avg_sal(id int)
returns int
deterministic
begin
    return (select AVG(SAL) from EMP where DEPTNO=id);
end
$
delimiter ;

select avg_sal(3) as ans;

+--------+
| ans    |
+--------+
| 300000 |
+--------+
```

Q9
```
delimiter $

create procedure emp_list()
begin
    select ENAME from EMP where DEPTNO=5;
end
$

delimiter ;
call emp_list();
call emp_list();
+-------+
| ENAME |
+-------+
```

```
| Mano  |
+-------+
```

Q10
```
delimiter $

create procedure dept_highest()
begin
    select MAX(SAL) from EMP group by DEPTNO;
end
$

delimiter ;

call dept_highest();
+----------+
| MAX(SAL) |
+----------+
|   160000 |
|   180000 |
|   300000 |
|   500000 |
|  9999999 |
+----------+
```

Q11
```
delimiter $

create function count_emp_cons()
returns int
deterministic
begin
    return (select count(ENAME) from EMP where SAL>30000);
end
$
delimiter ;

select count_emp_cons() as ans;
+------+
| ans  |
+------+
|    5 |
+------+
```

Q12
```
delimiter $

create function count_emp_loc()
returns int
deterministic
begin
    return (select count(ENAME) from EMP inner join DEPT on EMP.DEPTNO=DEPT.DEPTNO where
LOC="Mumbai");
end
$
delimiter ;
select count_emp_loc() as ans;
+------+
```

```
| ans  |
+------+
|    1 |
+------+
```