

DBMS LAB – 7

```
CREATE TABLE emp (empno int primary key, ename varchar(20), job  
varchar(10), deptno int, sal float);  
INSERT INTO emp values(1,'Sanjiv Kannaa', 'devops', 1, 30000);  
INSERT INTO emp values(2,'Sri Vignesh', 'SDE', 1, 50000);  
INSERT INTO emp values(3,'EVR', 'SDE', 1, 50000);  
INSERT INTO emp values(4,'Soma', 'SDE', 1, 60000);  
INSERT INTO emp values(5,'Appruval', 'prod', 2, 3000);  
INSERT INTO emp values(6,'shubham', 'prod', 2, 0);  
INSERT INTO emp values(7,'mano', 'prod', 2, 20);  
INSERT INTO emp values(8,'bhoopesh', 'prod', 2, 200);  
INSERT INTO emp values(9,'nithin', 'design', 3, 500000);
```

```
CREATE TABLE dept (deptno int primary key, dname varchar(10), loc  
varchar(10));  
INSERT INTO dept values (1, 'it', 'mumbai');  
INSERT INTO dept values (2, 'prod', 'chennai');  
INSERT INTO dept values (3, 'design', 'chennai');
```

Q1

```
delimiter //
```

```
create procedure q1(IN eno int)  
BEGIN  
    select * from emp where empno = eno;  
end;  
//
```

```
delimiter ; //
```

```
mysql> call q1(3);
```

```
+-----+-----+-----+-----+-----+
| empno | ename | job | deptno | sal |
+-----+-----+-----+-----+-----+
| 3 | EVR | SDE | 1 | 50000 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Query OK, 0 rows affected (0.00 sec)

Q2

```
delimiter //
```

```
create procedure q2(IN empnov int, IN enamev varchar(10), IN jobv
varchar(20), IN deptnov int, IN salv int)
BEGIN
    INSERT INTO emp values(empnov,enamev,jobv,deptnov,salv);
end;
//
```

```
delimiter ; //
```

```
mysql> call q2(10, "alien", "backenddev", 1, 0);
Query OK, 1 row affected (0.05 sec)
```

```
mysql> select * from emp;
```

```
+-----+-----+-----+-----+-----+
| empno | ename | job | deptno | sal |
+-----+-----+-----+-----+-----+
| 1 | Sanjiv Kannaa | devops | 1 | 30000 |
| 2 | Sri Vignesh | SDE | 1 | 50000 |
| 3 | EVR | SDE | 1 | 50000 |
```

	4	Soma	SDE		1	60000	
	5	Appruval	prod		2	3000	
	6	shubham	prod		2	0	
	7	mano	prod		2	20	
	8	bhoopesh	prod		2	200	
	9	nithin	design		3	500000	
	10	alien	backenddev		1	0	
+-----+-----+-----+-----+-----+							

10 rows in set (0.00 sec)

Q3

```
CREATE PROCEDURE q3(in id int, IN X INT) UPDATE emp SET sal =  
sal + X WHERE empno = id;
```

```
mysql> call q3(1,10000);
```

Query OK, 0 rows affected (0.03 sec)

Q4

```
CREATE PROCEDURE q4(IN NAME VARCHAR(20)) DELETE FROM  
emp WHERE ename = NAME;
```

```
mysql> call q4('alien');
```

Query OK, 1 row affected (0.10 sec)

Q5

```
delimiter //
```

```
CREATE FUNCTION q5 () RETURNS INT DETERMINISTIC  
BEGIN RETURN (SELECT MIN(sal) FROM emp); END;//
```

```
delimiter ; //
```

```
mysql> SELECT q5() AS MS;
```

```
-> //
```

```
+-----+
| MS |
+-----+
| 0 |
+-----+
1 row in set (0.00 sec)
```

Q6

delimiter //

```
CREATE FUNCTION q6 ()
RETURNS INT DETERMINISTIC
BEGIN RETURN (SELECT COUNT(*) FROM emp); END; //
```

delimiter ; //

```
mysql> select q6();
+-----+
| q6() |
+-----+
| 10 |
+-----+
1 row in set (0.00 sec)
```

Q7

delimiter //

```
CREATE FUNCTION q7 (N INT ) RETURNS INT DETERMINISTIC
BEGIN RETURN (SELECT sal FROM emp WHERE empno = N);
END; //
```

delimiter ; //

```
mysql> select q7(5);
+-----+
| q7(5) |
+-----+
| 3000 |
+-----+
1 row in set (0.00 sec)
```

Q8

delimiter //

```
CREATE FUNCTION q8 (DN INT )
RETURNS INT DETERMINISTIC
BEGIN
RETURN (SELECT AVG(sal) FROM emp WHERE deptno = DN);
END;//
```

delimiter ; //

```
select q8(1);
+-----+
| q8(1) |
+-----+
| 38000 |
+-----+
1 row in set (0.00 sec)
```

Q9

delimiter //

```
create procedure q9(IN deptnov int)
```

```
BEGIN
  select * from emp where deptno = deptnov;
end;
//
```

```
delimiter ; //
```

```
mysql> call q9(5);
Empty set (0.00 sec)
```

```
Query OK, 0 rows affected (0.00 sec)
```

Q10
delimiter //

```
create procedure dept_highest()
BEGIN
  select deptno, max(sal) from emp group by deptno;
end;
//
```

```
delimiter ; //
mysql> call dept_highest();
```

```
+-----+-----+
| deptno | max(sal) |
+-----+-----+
| 1 | 60000 |
| 2 | 3000 |
| 3 | 500000 |
+-----+-----+
```

```
3 rows in set (0.00 sec)
```

Query OK, 0 rows affected (0.00 sec)

Q11

delimiter //

```
CREATE FUNCTION q11 (DN INT ) RETURNS INT DETERMINISTIC
BEGIN RETURN (SELECT COUNT(*) FROM emp WHERE sal > DN);
END; //
```

delimiter ; //

mysql> select q11(3000);

```
+-----+
| q11(3000) |
+-----+
|      5 |
+-----+
```

1 row in set (0.01 sec))

Query OK, 0 rows affected (0.00 sec)

Q12

delimiter //

```
CREATE FUNCTION q12()
RETURNS INT DETERMINISTIC BEGIN RETURN (SELECT
COUNT(*) FROM emp,dept WHERE emp.deptno = dept.deptno AND
loc = 'MUMBAI'); END; //
```

delimiter ; //

```
mysql> select q12();
+-----+
| q12() |
+-----+
|    5 |
+-----+
1 row in set (0.00 sec)
```