## **Assignment 9**

#### • Create Simple Procedures

```
mysql> CREATE PROCEDURE PRINT()
    -> BEGIN
    -> SELECT 'HELLO' AS OUTPUT;
    -> END;
    -> $
    Query OK, 0 rows affected (0.06 sec)

mysql> CALL PRINT();
    -> $
+-----+
| OUTPUT |
+-----+
| HELLO |
+-----+
1 row in set (0.00 sec)

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

```
mysql> CREATE TABLE STUDENT (ROLL NO INT PRIMARY KEY, NAME VARCHAR (20), CLASS
VARCHAR(20), MARKS INT);
Query OK, 0 rows affected (0.33 sec)
mysql> INSERT INTO STUDENT VALUES (1, 'Shreyas Patil', null, 900), (2, 'Piyush
Rajput', null, 1001), (3, 'Jagruti Patil', null, 600), (4, 'Manisha
Yemul', null, 800), (5, 'Aditya Pandit', null, 200), (6, 'Harsh', null, 50);
Query OK, 6 rows affected (0.07 sec)
Records: 6 Duplicates: 0 Warnings: 0
mysql> SELECT * FROM STUDENT;
+----+
| ROLL NO | NAME | CLASS | MARKS |
+-----
     1 | Shreyas Patil | NULL | 900 |
      2 | Piyush Rajput | NULL | 1001 |
      3 | Jagruti Patil | NULL | 600 |
      4 | Manisha Yemul | NULL | 800 |
      5 | Aditya Pandit | NULL | 200 |
      6 | Harsh
                 | NULL |
                                50 |
  ----+
6 rows in set (0.00 sec)
```

# • Set Delimiter:

```
mysql> DELIMITER $
```

## • Create Procedure to Show Data

```
mysql> CREATE PROCEDURE GETDATA(IN ID INT)
    -> BEGIN
    -> SELECT * FROM STUDENT WHERE ROLL_NO=ID;
    -> END;
    -> $
Query OK, 0 rows affected (0.08 sec)
```

## • Create procedure to get the value

```
mysql> CREATE PROCEDURE GETSAL(IN CID INT, OUT SALARY FLOAT)
   -> BEGIN
   -> SELECT CUST_SALARY INTO SALARY FROM CUSTOMER WHERE CUST_ID = CID;
   -> END;
   -> $
```

```
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT * FROM CUSTOMER;
+----+
| CUST ID | CUST NAME | CUST SALARY | CONTACT | CITY
                                                             | COUNTRY |
+----+
     1 | PIYUSH RAJPUT | 50000 | 8877665544 | PUNE | INDIA
2 | SHREYAS PATIL | 500000 | 8873475544 | JALGAON | INDIA
3 | HARRY POTTER | 5000000 | 9073475544 | SAN FRANSISCO | US
                                                             | INDIA
3 rows in set (0.02 sec)
mysql> CALL GETSAL(1, @SAL)$
Query OK, 1 row affected (0.00 sec)
mysql> SELECT @SAL$
+----+
| @SAL |
+----+
| 50000 |
+----+
1 row in set (0.00 sec)
```

#### • Create procedure to Update the data.

```
mysql> CREATE PROCEDURE UPDATECLASS()
   -> BEGIN
   -> UPDATE STUDENT SET CLASS = 'DISTINCTION' WHERE MARKS<=1500 AND MARKS>=990;
   -> UPDATE STUDENT SET CLASS = 'FIRST CLASS' WHERE MARKS<=989 AND MARKS>=900;
   -> UPDATE STUDENT SET CLASS = 'SECOND CLASS' WHERE MARKS<=899 AND MARKS>=825;
   -> UPDATE STUDENT SET CLASS = 'POOR' WHERE MARKS<=824;
   -> $
Query OK, 0 rows affected (0.00 sec)
mysql> CREATE PROCEDURE ASSTATUS()
   -> BEGIN
   -> UPDATE CUSTOMER SET STATUS = 'Platinum' WHERE SALARY > 75000;
   -> UPDATE CUSTOMER SET STATUS = 'Gold' WHERE SALARY > 45000 AND SALARY < 75000;
   -> UPDATE CUSTOMER SET STATUS = 'Silver' WHERE SALARY < 45000;
   -> END;
   -> S
Query OK, 0 rows affected (0.00 sec)
mysql> CALL ASSTATUS()$
Query OK, 1 row affected (0.19 sec)
mysql> SELECT * FROM CUSTOMER$
+----+
| ID | NAME | SALARY | STATUS |
+----+
   1 | Shreyas | 50000 | Gold
    2 | Piyush | 50000 | Gold
   3 | Aditya | 90000 | Platinum |
4 | Harsh | 10000 | Silver |
4 rows in set (0.00 sec)
```

### • Call Procedures

```
mysql> CALL UPDATECLASS()$
Query OK, 4 rows affected (0.14 sec)
mysql> SELECT * FROM STUDENT$
```

```
+----+
| ROLL NO | NAME
              | CLASS
                      | MARKS |
+----+
    1 | Shreyas Patil | FIRST CLASS |
    2 | Piyush Rajput | DISTINCTION | 1001 |
    3 | Jagruti Patil | POOR |
                       4 | Manisha Yemul | POOR
    5 | Aditya Pandit | POOR
6 | Harsh | POOR
                      200 |
                      50 |
+----+
6 rows in set (0.00 sec)
mysql> CALL GETDATA(1)$
+----+
           | CLASS | MARKS |
| ROLL_NO | NAME
+----+
   1 | Shreyas Patil | FIRST CLASS | 900 |
+----
1 row in set (0.00 sec)
```

#### • Create and call functions:

```
mysql> CREATE FUNCTION calcProfit(cost FLOAT, price FLOAT) RETURNS DECIMAL(9,2)
   -> BEGIN
   -> DECLARE profit DECIMAL(9,2);
      SET profit = price-cost;
   ->
   -> RETURN profit;
   -> END$$
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT *, calcProfit(prod_cost,prod_price) AS profit FROM products$
+----+
| prod id | prod name | prod cost | prod price | profit |
+----+
      1 | Basic Widget | 5.95 | 8.35 | 2.40 | 2 | Micro Widget | 0.95 | 1.35 | 0.40 |
     2 | Micro Widget | 0.95 | 1.35 | 0.40 | 3 | Mega Widget | 99.95 | 140 | 40.05 |
+----+
3 rows in set (0.02 sec)
```

### • Show List of Procedures of Specific Database: