

# LAB ASSIGNMENT-10

YASH GUPTA  
S20200010234

Q1.

```
mysql> create table distance(fromCity varchar(20),toCity varchar(20), di int);
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into distance values('Hyderabad','Adoni',370);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into distance values('Hyderabad','Kurnool',110);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from distance;
+-----+-----+-----+
| fromCity | toCity | di |
+-----+-----+-----+
| Hyderabad | Adoni | 370 |
| Hyderabad | Kurnool | 110 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql>
mysql> delimiter //
mysql> create trigger trig
-> BEFORE INSERT
-> ON Distance FOR EACH ROW
-> BEGIN
-> declare fromCity1, toCity1 varchar(30);
-> declare dist, test1, test2 INT;
-> set fromCity1 = new.fromCity;
-> set tocity1 = new.tocity;
-> set dist = new.di;
-> select count(*) into test1 from Distance where fromCity=fromCity1 and toCity=toCity1;
-> select count(*) into test2 from Distance where fromCity=toCity1 and toCity=fromCity1;
-> if test1>0 or test2> 0 then
-> SIGNAL SQLSTATE '02000' SET MESSAGE_TEXT = "Distance between these cities already exist";
-> END IF;
-> END //
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql>
mysql> DELIMITER ;
mysql> insert into distance values('Adoni','Hyderabad', 170);
ERROR 1643 (02000): Distance between these cities already exist
mysql> insert into distance values('Adoni','Ahmedabad', 1700);
Query OK, 1 row affected (0.00 sec)
```

Q2.

```
mysql> create table BankCustomers(accnum varchar(20), name varchar(20), loan int);
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> delimiter //
mysql> CREATE PROCEDURE customer_insert(
    -> in accno varchar(20),
    -> in name varchar(20),
    -> in loan int
    -> )
    -> deterministic
    -> begin
    -> if loan > 1000000 then
    -> select 'OOPS! Max limit as 10 Lakhs only' as error;
    -> else
    -> insert into bankcustomers values(accno,name,loan);
    -> end if;
    -> end //
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql>
mysql> delimiter ;
mysql> call customer_insert('14','Ravi', 1000001);
```

```
+-----+
| error                                     |
+-----+
| OOPS! Max limit as 10 Lakhs only |
+-----+
1 row in set (0.00 sec)
```

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

Q4.

```
mysql> create table employees(name varchar(30), experience int, salary int(10));
Query OK, 0 rows affected, 1 warning (0.01 sec)
```

```
mysql> insert into employees values('Ravi', 12, 10000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into employees values('sai', 33, 100000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into employees values('Sri', 27, 25000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
mysql> delimiter //
mysql> create procedure FindEmployee(in input INT)
    -> begin
    -> declare done INT DEFAULT FALSE;
    -> declare name1 varchar(40);
    -> declare salary1 INT;
    -> DECLARE cur1 CURSOR FOR SELECT name, salary FROM employees;
    -> DECLARE CONTINUE HANDLER FOR NOT FOUND SET done=TRUE;
    -> OPEN cur1;
    -> read_loop: LOOP
    -> FETCH cur1 INTO name1, salary1;
    -> IF done THEN
    -> LEAVE read_loop;
    -> END IF;
    -> if(salary1 < input) THEN
    -> SELECT name1 as Name, salary1 as Salary;
    -> END IF;
    -> END LOOP;
    -> CLOSE cur1;
    -> END //
```

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

```
mysql>
mysql> delimiter ;
mysql> call FindEmployee(10000);
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> call FindEmployee(20000);
```

```
+-----+-----+
| Name | Salary |
+-----+-----+
| Ravi | 10000  |
+-----+-----+
1 row in set (0.00 sec)
```

Q5.

```
mysql> create table employees(name varchar(30), experience int, salary int(10));
ERROR 1050 (42S01): Table 'employees' already exists
mysql> insert into employees values('Ravi', 12, 10000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into employees values('Sai', 33, 100000);
Query OK, 1 row affected (0.00 sec)

mysql> insert into employees values('Sri', 27, 25000);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> delimiter //
mysql> create procedure UpdateSalaryofEmployees()
-> begin
-> declare done INT DEFAULT FALSE;
-> declare temp decimal(15,2);
-> declare name1 varchar(40);
-> declare salary1, exp1 INT;
-> DECLARE cur1 CURSOR FOR SELECT name, experience, salary FROM employees;
-> DECLARE CONTINUE HANDLER FOR NOT FOUND SET done=TRUE;
-> OPEN cur1;
-> read_loop: LOOP
-> FETCH cur1 INTO name1, exp1, salary1;
-> IF done then
-> leave read_loop;
-> END IF;
-> set temp=salary1;
-> IF exp1>30 then
-> set temp = (1.3) *salary1;
-> elseif exp1>20 and exp1<=30 then set temp=(1.2)*salary1;
-> elseif exp1>10 and exp1<=20 then set temp=(1.1)*salary1;
-> END IF;
-> SELECT name1 as name, exp1 as experience, salary1 as salary, temp as incrementedSalary;
-> END LOOP;
-> CLOSE cur1;
-> END //
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> call UpdateSalaryofEmployees();
```

```
+-----+-----+-----+-----+
| name | experience | salary | incrementedSalary |
+-----+-----+-----+-----+
| Ravi |          12 |  10000 |          11000.00 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
+-----+-----+-----+-----+
| name | experience | salary | incrementedSalary |
+-----+-----+-----+-----+
| sai  |          33 | 100000 |        130000.00 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
+-----+-----+-----+-----+
| name | experience | salary | incrementedSalary |
+-----+-----+-----+-----+
| Sri  |          27 |  25000 |          30000.00 |
+-----+-----+-----+-----+
1 row in set (0.01 sec)
```

THANK YOU