Name:Zeeshan Zafar

RollNo:p200569

Department:BS(CS)

```
MariaDB [(none)]> use person;
Database changed
MariaDB [person]> create table Users(user_id INT PRIMARY KEY,username VARCHAR(50),password VARCHAR(50),email VARCHAR(70),salary INT);
Query OK, 0 rows affected (0.025 sec)

MariaDB [person]> SHOW TABLES;
+-----------------+
| Tables_in_person |
+-----------------+
| users           |
+-----------------+
1 row in set (0.001 sec)

MariaDB [person]> CREATE TABLE Summary(id INT PRIMARY KEY,total_users INT,Yahoo INT,Hotmail INT,Gmial INT);
Query OK, 0 rows affected (0.024 sec)

MariaDB [person]> SHOW TABLES;
+-----------------+
| Tables_in_person |
+-----------------+
| summary         |
| users           |
+-----------------+
```

```
ERROR 1054 (42522): Unknown column 'Gmail' in 'field list'
MariaDB [person]> INSERT INTO summary(id,total_users,Yahoo,Hotmail,Gmial)
    -> VALUES(1,2,1,0,1);
Query OK, 1 row affected (0.003 sec)
```

```
MariaDB [person]> INSERT INTO users(user_id,username,password,email,salary)
    -> VALUES(1,'xyz789','asd123','xyz789@gmail.com',50000);
ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'
MariaDB [person]> INSERT INTO users(user_id,username,password,email,salary)
    -> VALUES(2,'xyz789','asd123','xyz789@gmail.com',50000);
Query OK, 1 row affected (0.004 sec)

MariaDB [person]> clear;
MariaDB [person]> select * from summary;
+----+-------------+-------+---------+-------+
| id | total_users | Yahoo | Hotmail | Gmial |
+----+-------------+-------+---------+-------+
|  1 |           2 |     1 |       0 |     1 |
+----+-------------+-------+---------+-------+
1 row in set (0.001 sec)

MariaDB [person]> select * from users;
+---------+----------+----------+------------------+--------+
| user_id | username | password | email            | salary |
+---------+----------+----------+------------------+--------+
|       1 | abc123   | def321   | abc123@yahoo.com |  30000 |
|       2 | xyz789   | asd123   | xyz789@gmail.com |  50000 |
+---------+----------+----------+------------------+--------+
2 rows in set (0.000 sec)
```

```
MariaDB [person]> CREATE PROCEDURE INSERT_USERS( IN user_id INT,IN username VARCHAR(50),IN password VARCHAR(50),IN emial VARCHAR(70),IN salary INT)
    -> BEGIN
    -> INSERT INTO users(user_id,username,password,email,salary)
    -> VALUES (user_id,username,password,email,salary);
    -> END$$
Query OK, 0 rows affected (0.004 sec)

MariaDB [person]> CREATE PROCEDURE DISPLAY_USERS()
    -> BEGIN
    -> SELECT COUNT(user_id) AS TOTAL_ROWS_IN_USERS FROM users;
    -> END$$
Query OK, 0 rows affected (0.006 sec)
```

```
MariaDB [person]> CREATE PROCEDURE DISPLAY_USERS_AVG()
    -> BEGIN
    -> SELECT AVG(salary) AS AVG_SALARY_USERS FROM users;
    -> END$$
Query OK, 0 rows affected (0.006 sec)
```

```
MariaDB [person]> CREATE PROCEDURE MinMax()
    -> BEGIN
    -> SELECT MIN(salary) AS MIN_Salary,MAX(salary) AS Max_Salary FROM users;
    -> END$$
Query OK, 0 rows affected (0.006 sec)
```

```
MariaDB [person]> CALL DISPLAY_USERS();
    -> $$
+---------------------+
| TOTAL_ROWS_IN_USERS |
+---------------------+
|                   2 |
+---------------------+
1 row in set (0.002 sec)
```

```
MariaDB [person]> CALL DISPLAY_USERS_AVG();$$
+-------------------+
| AVG_SALARY_USERS  |
+-------------------+
|        40000.0000 |
+-------------------+
1 row in set (0.003 sec)

Query OK, 0 rows affected (0.008 sec)
```

```
MariaDB [person]> CALL MinMax();$$
+-------------+-------------+
| MIN_Salary  | Max_Salary  |
+-------------+-------------+
|       30000 |       50000 |
+-------------+-------------+
1 row in set (0.001 sec)

Query OK, 0 rows affected (0.007 sec)
```

------------------------------Triggers------------------------------

```
MariaDB [person]> CREATE
    -> TRIGGER users_after_insert AFTER INSERT
    -> ON users
    -> FOR EACH ROW BEGIN
    -> UPDATE summary
    -> SET total_users=total_users+1;
    -> END $$
Query OK, 0 rows affected (0.010 sec)
```

```
MariaDB [person]> CREATE
    -> TRIGGER users_after_deletion AFTER delete
    -> ON users
    -> FOR EACH ROW BEGIN
    -> UPDATE summary
    -> SET total_users=total_users-1;
    -> END $$
Query OK, 0 rows affected (0.009 sec)

MariaDB [person]>
```

```
MariaDB [person]> INSERT INTO users VALUES(4,'zeeshan09','ateq123','zeeshan09@gmail.com',15000);$$
Query OK, 1 row affected (0.004 sec)

MariaDB [person]> INSERT INTO users VALUES(5,'zeeshan019','ateq1234','zeeshan019@gmail.com',18000);$$
Query OK, 1 row affected (0.003 sec)

MariaDB [person]> select * from summary;$$
+----+-------------+-------+---------+-------+
| id | total_users | Yahoo | Hotmail | Gmial |
+----+-------------+-------+---------+-------+
|  1 |           5 |     1 |       0 |     1 |
+----+-------------+-------+---------+-------+
1 row in set (0.000 sec)

MariaDB [person]> delete from users where user_id=4;
    -> $$
Query OK, 1 row affected (0.006 sec)

MariaDB [person]> select * from summary;$$
+----+-------------+-------+---------+-------+
| id | total_users | Yahoo | Hotmail | Gmial |
+----+-------------+-------+---------+-------+
|  1 |           4 |     1 |       0 |     1 |
+----+-------------+-------+---------+-------+
1 row in set (0.001 sec)
```