

# Exercise Lab 09

## Task 1:

```
MariaDB [(none)]> create database person;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> use person;
Database changed
MariaDB [person]> create table summary(id int PRIMARY KEY, total_users int, yahoo int, hotmail int, gmail int);
Query OK, 0 rows affected (0.438 sec)

MariaDB [person]> create table users(user_id int PRIMARY KEY, username varchar(60), password varchar(70), email varchar(70), salary int);
Query OK, 0 rows affected (0.236 sec)
```

```
MariaDB [person]> create procedure pro1(IN var1 int, IN var2 int, IN var3 int, IN var4 int, IN var5 int )
-> begin
-> insert into summary(id,total_users,yahoo,hotmail,gmail) values(var1, var2, var3, var4,var5);
-> end $$
Query OK, 0 rows affected (0.096 sec)

MariaDB [person]> call pro1 (1,2,1,0,1)$$
Query OK, 1 row affected (0.058 sec)

MariaDB [person]> select * from summary$$
+-----+-----+-----+-----+-----+
| id | total_users | yahoo | hotmail | gmail |
+-----+-----+-----+-----+-----+
| 1 | 2 | 1 | 0 | 1 |
+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

## Task 2:

```
MariaDB [person]> create procedure pro2(IN var1 int , IN var2 varchar(60), IN var3 varchar(70), IN var4 varchar(70), IN var5 int)
begin insert into users(user_id,username,password,email,salary) values(var1, var2, var3, var4,var5); end$$
Query OK, 0 rows affected (0.060 sec)

MariaDB [person]> call pro2 ( 1, 'abc123', 'def321', 'abc123@yahoo.com', 30000 )$$
Query OK, 1 row affected (0.094 sec)

MariaDB [person]> select * from users$$
+-----+-----+-----+-----+-----+
| user_id | username | password | email          | salary |
+-----+-----+-----+-----+-----+
| 1 | abc123 | def321 | abc123@yahoo.com | 30000 |
+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

## Task 3:

```
MariaDB [person]> create procedure total_records(out records int)
-> begin
in-> select count(user_id) from users;
-> end $$
Query OK, 0 rows affected (0.084 sec)

MariaDB [person]> call total_records(@records)$$
+-----+
| count(user_id) |
+-----+
| 2 |
+-----+
1 row in set (0.001 sec)
```

## Task 4:

```
MariaDB [person]> create procedure avg_salary(out salary int) begin select avg(salary) from users; end$$
Query OK, 0 rows affected (0.092 sec)

MariaDB [person]> call avg_salary(@salary)$$
+-----+
| avg(salary) |
+-----+
| NULL |
+-----+
1 row in set (0.001 sec)
```

## Task 5:

```
MariaDB [person]> create procedure minimax(out min_salary decimal, out max_salary decimal) begin select min(salary), max(salary) from users; end$$
Query OK, 0 rows affected (0.057 sec)
```

  

```
MariaDB [person]> call minimax(@min_salary, @max_salary)$$
+-----+-----+
| min(salary) | max(salary) |
+-----+-----+
|      30000 |      60000 |
+-----+-----+
1 row in set (0.001 sec)
```

## Task 6:

### Creating triggers

```
MariaDB [person]> create trigger insert_info
-> after insert on person.users
-> for each row begin
-> update person.summary set total_users = total_users + 1;
-> end $$
Query OK, 0 rows affected (0.099 sec)
```

  

```
MariaDB [person]> create trigger delete_info
-> after delete on person.users
-> for each row begin
-> update person.summary set total_users = total_users - 1;
-> end $$
Query OK, 0 rows affected (0.123 sec)
```

### Inserting data into table calling procedure

```
MariaDB [person]> call pro2 ( 3, 'hamza', '16511', 'hamza@yahoo.com', 110000 )$$
Query OK, 2 rows affected (0.070 sec)
```

  

```
MariaDB [person]> call pro2 ( 4, 'faizan', '1891651511', 'faizan@gmail.com', 110000 )$$
Query OK, 2 rows affected (0.082 sec)
```

  

```
MariaDB [person]> call pro2 ( 5, 'farooq', '71xd6', 'chuwara@gmail.com', 170000 )$$
Query OK, 2 rows affected (0.062 sec)
```

  

```
MariaDB [person]> call pro2 ( 6, 'Ali', '71xd1456', 'ali@gmail.com', 240000 )$$
Query OK, 2 rows affected (0.068 sec)
```

  

```
MariaDB [person]> call pro2 ( 7, 'ahmed', 'cdn', 'ahmed@gmail.com', 440000 )$$
Query OK, 2 rows affected (0.067 sec)
```

Two records already exist before calling procedures above

```
MariaDB [person]> select total_users from summary;
-> $$
+-----+
| total_users |
+-----+
|          7 |
+-----+
1 row in set (0.000 sec)
```

Deleting two records and checking total\_users from summary table

```
MariaDB [person]> delete from users where user_id in(3,5);
-> $$
Query OK, 2 rows affected (0.187 sec)

MariaDB [person]> select total_users from summary;
-> $$
+-----+
| total_users |
+-----+
|          5 |
+-----+
1 row in set (0.001 sec)
```