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ROLL NO: P19-0042

SECTION: 4B

1. Write a procedure that take id, total_user, Yahoo, Hotmail, Gmail values as an input and insert the data into the table summary.

```
MariaDB [person]> create procedure smry(IN id int, IN taotal_users int, IN yahoo int, IN hotmail int, IN gmail int)
-> BEGIN
-> insert into summary(id,total_users,yahoo,hotmail,gmail);
-> END $$
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right
```

```
MariaDB [person]> SELECT * FROM SUMMARY$$
+---+-----+-----+-----+-----+
| id | total_users | yahoo | hotmail | gmail |
+---+-----+-----+-----+-----+
| 1  |          2 |      1 |        0 |      1 |
+---+-----+-----+-----+-----+
1 row in set (0.000 sec)
```

2. Write a procedure that take user_id, username, password, email values as an input

and insert the data into the table Users.

```
MariaDB [person]> create procedure users(IN user_id int, IN username varchar(10), IN password varchar(10), IN email varchar(20), IN salary varchar(5))
-> BEGIN
-> insert into users values(user_id,username,password,email,salary);
-> END $$
Query OK, 0 rows affected (0.011 sec)

MariaDB [person]> call users(1,'abc123','12234','abc123@yahoo.com','30000')$$
ERROR 1305 (42000): PROCEDURE person.users does not exist
MariaDB [person]> call users(1,'abc123','12234','abc123@yahoo.com','30000')$$
Query OK, 1 row affected (0.013 sec)

MariaDB [person]> select * from users;
-> $$
+---+-----+-----+-----+-----+
| user_id | username | password | email          | salary |
+---+-----+-----+-----+-----+
| 1       | abc123   | 12234    | abc123@yahoo.com | 30000  |
+---+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [person]> call users(2,'xyz123','12343','xyz789@gmail.com','50000');
-> $$
Query OK, 1 row affected (0.009 sec)

MariaDB [person]> select * from users;
-> $$
+---+-----+-----+-----+-----+
| user_id | username | password | email          | salary |
+---+-----+-----+-----+-----+
| 1       | abc123   | 12234    | abc123@yahoo.com | 30000  |
| 2       | xyz123   | 12343    | xyz789@gmail.com | 50000  |
+---+-----+-----+-----+-----+
2 rows in set (0.000 sec)
```

3. Write a procedure that output the total number of records/rows in the users table.

```

MariaDB [person]> create procedure t_usrs(out total int)
-> BEGIN
-> select count(user_id) from users;
-> END$$

```

Query OK, 0 rows affected (0.003 sec)

```

MariaDB [person]> call t_usrs(@out);
-> $$

```

```

+-----+
| count(user_id) |
+-----+
|                2 |
+-----+

```

1 row in set (0.001 sec)

Query OK, 0 rows affected (0.006 sec)

```

MariaDB [person]>

```

4. Write a procedure that output the average salary in the users table.

```

MariaDB [person]> create procedure avg(out avg_sal decimal)
-> BEGIN
-> select avg(salary) from users;
-> END$$

```

ERROR 1304 (42000): PROCEDURE avg already exists

```

MariaDB [person]> create procedure avg_sal(out avg_sal decimal)
-> BEGIN
-> select avg(salary) from users;
-> END$$

```

Query OK, 0 rows affected (0.013 sec)

```

MariaDB [person]> call avg_sal(@out)$$

```

```

+-----+
| avg(salary) |
+-----+
|          40000 |
+-----+

```

1 row in set (0.002 sec)

Query OK, 0 rows affected (0.011 sec)

5. Create a procedure named minmax which displays the lowest and the highest salary of

the users. Run the procedure to display the lowest and the highest salary.

```

MariaDB [person]> Create PROCEDURE salary(OUT min_salary int, OUT max_salary int)
-> BEGIN
-> select min(salary),max(salary) into min_salary,max_salary from users;
-> END$$
Query OK, 0 rows affected (0.050 sec)

MariaDB [person]> call out(outmin_salary,max_salary)$$
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that correspon
MariaDB [person]> call out(@outmin_salary,max_salary)$$
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that correspon
MariaDB [person]> call @out(min_Salary,max_salary);
-> $$
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that correspon
MariaDB [person]> call salary(@min_salary,@max_Salary)$$
Query OK, 1 row affected (0.001 sec)

MariaDB [person]> select min_salary,max_salary;
-> $$
ERROR 1054 (42S22): Unknown column 'min_salary' in 'field list'
MariaDB [person]> select @min_salary,@max_salary;
-> $$
+-----+-----+
| @min_salary | @max_salary |
+-----+-----+
|          30000 |          50000 |
+-----+-----+
1 row in set (0.000 sec)

```

6. Create trigger(s) to update the records in the summary table. The summary table will contain only one record and will be updated each time a new entry is made to the users table, or a user is deleted from the users table. You need to create the following two triggers.

I. Whenever a new entry is made to the user's table then total_user attribute in the summary table must be incremented by 1.

```

MariaDB [person]> create TRIGGER usrs_after_insert AFTER INSERT ON person.USERS
-> FOR EACH ROW BEGIN
-> UPDATE SUMMARY SET TOTAL_USERS=TOTAL_USERS+1 WHERE ID=1;
-> END$$
Query OK, 0 rows affected (0.053 sec)

```

```

MariaDB [person]> CALL insert_users(3,'xyz1122','amz123','xyz112@gmail.com','35000')$$
ERROR 1305 (42000): PROCEDURE person.insert_users does not exist
MariaDB [person]> CALL users(3,'xyz1122','amz123','xyz112@gmail.com','35000')$$
Query OK, 2 rows affected (0.053 sec)

MariaDB [person]> CALL users(3,'jkl123','ajklm123','jkl123@gmail.com','345000')$$
ERROR 1062 (23000): Duplicate entry '3' for key 'PRIMARY'
MariaDB [person]> CALL users(4,'jkl123','ajklm123','jkl123@gmail.com','345000')$$
Query OK, 2 rows affected, 1 warning (0.048 sec)

MariaDB [person]> select * from users;
-> $$
+-----+-----+-----+-----+-----+
| user_id | username | password | email | salary |
+-----+-----+-----+-----+-----+
| 1 | abc123 | 12234 | abc123@yahoo.com | 30000 |
| 2 | xyz123 | 12343 | xyz789@gmail.com | 50000 |
| 3 | xyz1122 | amz123 | xyz112@gmail.com | 35000 |
| 4 | jkl123 | ajklm123 | jkl123@gmail.com | 34500 |
+-----+-----+-----+-----+-----+
4 rows in set (0.000 sec)

MariaDB [person]> CALL users(5,'lmao321','lmao897','lmao321@gmail.com','25600')$$
Query OK, 2 rows affected (0.047 sec)

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

```

II. Whenever a record is deleted from the user's table then total_user attribute in the summary table must be decremented by 1.

```

MariaDB [person]> create TRIGGER usrs_after_delete AFTER DELETE ON person.USERS
-> FOR EACH ROW BEGIN
-> UPDATE SUMMARY SET TOTAL_USERS= TOTAL_USERS-1 WHERE ID=1;
-> END$$
Query OK, 0 rows affected (0.054 sec)

MariaDB [person]> delete from users where user_id=5;
-> $$
Query OK, 1 row affected (0.050 sec)

MariaDB [person]> select * from summary$$
+-----+-----+-----+-----+-----+
| id | total_users | yahoo | hotmail | gmail |
+-----+-----+-----+-----+-----+
| 1 | 4 | 1 | 0 | 1 |
+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

```