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19p-0085

DATABASE LAB

TASK # 09:

```
--Database Created First
create database person;
--Then use it
use person
create table users(
    user_id int(8) not null primary key,
    username varchar(15) not null,
    password varchar(5) not null,
    email varchar(30) not null,
    salary int(8) not null
);
```

```
MariaDB [(none)]> create database person;
Query OK, 1 row affected (0.001 sec)
```

```
MariaDB [person]> create table users(
->     user_id int(8) not null primary key,
->     username varchar(15) not null,
->     password varchar(5) not null,
->     email varchar(30) not null,
->     salary int(8) not null
-> );
Query OK, 0 rows affected (0.023 sec)
```

```
--Insert the data
insert into users value(1,'abc123','def321','abc123@yahoo.com',3000);
insert into users value(2,'xyz789','asd123','xyz789@yahoo.com',3000);
```

```
MariaDB [person]> select * from users;
+-----+-----+-----+-----+-----+
| user_id | username | password | email | salary |
+-----+-----+-----+-----+-----+
| 1 | abc123 | def32 | abc123@yahoo.com | 3000 |
| 2 | xyz789 | asd12 | xyz789@yahoo.com | 3000 |
+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)
```

```
create table summary(
    id tinyint(1) not null primary key,
    total_users tinyint(2) not null,
    yahoo tinyint (1) not null,
    hotmail tinyint(1) not null,
    gmail tinyint(1) not null
);
```

```

insert into summary values(1,2,1,0,1);
MariaDB [person]> create table summary(
  ->   id tinyint(1) not null primary key,
  ->   total_users tinyint(2) not null,
  ->   yahoo tinyint (1) not null,
  ->   hotmail tinyint(1) not null,
  ->   gmail tinyint(1) not null
  -> );
Query OK, 0 rows affected (0.024 sec)

MariaDB [person]> insert into summary values(1,2,1,0,1);
Query OK, 1 row affected (0.004 sec)

MariaDB [person]> select * from summary;
+-----+-----+-----+-----+-----+
| id | total_users | yahoo | hotmail | gmail |
+-----+-----+-----+-----+-----+
|  1 |           2 |      1 |        0 |      1 |
+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

```

## Lab\_Tasks:

```

--Task1
DELIMITER $$
CREATE PROCEDURE TASK1()
BEGIN
INSERT INTO SUMMARY VALUES (2,4,2,0,5);
END$$

CALL TASK1$$
SELECT * FROM SUMMARY$$

MariaDB [person]> DELIMITER $$
MariaDB [person]> CREATE PROCEDURE TASK1()
  -> BEGIN
  -> INSERT INTO SUMMARY VALUES (2,4,2,0,5);
  -> END$$
Query OK, 0 rows affected, 5 warnings (0.037 sec)

MariaDB [person]> CALL TASK1$$
Query OK, 1 row affected (0.004 sec)

MariaDB [person]> SELECT * FROM SUMMARY$$
+-----+-----+-----+-----+-----+
| id | total_users | yahoo | hotmail | gmail |
+-----+-----+-----+-----+-----+
|  1 |           2 |      1 |        0 |      1 |
|  2 |           4 |      2 |        0 |      5 |
+-----+-----+-----+-----+-----+
2 rows in set (0.000 sec)

```

## Task2

```
CREATE PROCEDURE TASK3()
```

```
BEGIN
INSERT INTO USERS VALUES(4, 'BILAL', 'HELLOWORLD', 'IBI@GMAIL.COM', 5000);
END$$
```

```
CALL TASK3$$
SELECT * FROM USERS$$
```

```
MariaDB [person]> CREATE PROCEDURE TASK3()
-> BEGIN
-> INSERT INTO USERS VALUES(4, 'BILAL', 'HELLOWORLD', 'IBI@GMAIL.COM', 5000);
-> END$$
```

Query OK, 0 rows affected (0.005 sec)

```
MariaDB [person]>
MariaDB [person]> CALL TASK3$$
Query OK, 1 row affected, 1 warning (0.002 sec)
```

```
MariaDB [person]> SELECT * FROM USERS$$
```

user_id	username	password	email	salary
1	abc123	def32	abc123@yahoo.com	3000
2	xyz789	asd12	xyz789@yahoo.com	3000
4	BILAL	HELLO	IBI@GMAIL.COM	5000

3 rows in set (0.000 sec)

```
MariaDB [person]>
```

```
--Task3
```

```
SELECT MIN(SALARY) FROM USERS;
$$
```

```
MariaDB [person]> select min(salary) from users;
-> $$
```

min(salary)
3000

1 row in set (0.004 sec)

```
--Task4
```

```
SELECT AVG(SALARY) FROM USERS;
$$
```

```
MariaDB [person]> SELECT AVG(SALARY) FROM USERS;
-> $$
```

AVG(SALARY)
3666.6667

1 row in set (0.001 sec)

```
--Task5
```

```

CREATE PROCEDURE MINMAX()
BEGIN
SELECT MIN(SALARY) FROM USERS;
SELECT MAX(salary) FROM USERS;
END$$
CALL MINMAX$$

```

```

MariaDB [person]> CREATE PROCEDURE MINMAX()
-> BEGIN
-> SELECT MIN(SALARY) FROM USERS;
-> SELECT MAX(salary) FROM USERS;
-> END$$
Query OK, 0 rows affected (0.007 sec)

```

```

MariaDB [person]> CALL MINMAX$$

```

```

+-----+
| MIN(SALARY) |
+-----+
|          3000 |
+-----+

```

```

1 row in set (0.001 sec)

```

```

+-----+
| MAX(salary) |
+-----+
|          5000 |
+-----+

```

```

1 row in set (0.009 sec)

```

```

Query OK, 0 rows affected (0.015 sec)

```

```

MariaDB [person]>

```

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```

--Task6

```

```

Delimiter $$

```

```

create trigger task7a after insert

```

```

on person.users

```

```

for each row begin

```

```

insert into person.summary (TOTAL_USER) values (NEW.user_id);

```

```

end$$

```

```

insert into users (username,password,email) values
('asjid','abc123','asjid@gmail.com')$$

```

```

select * from users$$

```

```

select * from summary$$

```

```

insert into users (username,password,email) values
('tahir','fast123','fast@gmail.com')$$

```

```

select * from users$$

```

```

select * from summary$$

```

```
mysql> select * from users$$
```

USER_ID	USERNAME	PASSWORD	EMAIL
1	ibrar	abc123	ibrar@gmail.com
2	rajput	fast123	fast@gmail.com

```
2 rows in set (0.00 sec)
```

```
mysql> select * from summary$$
```

ID	TOTAL_USER	YAHOO	HOTMAIL	GMAIL
1	1	1	0	1
2	2	1	0	1

```
2 rows in set (0.00 sec)
```