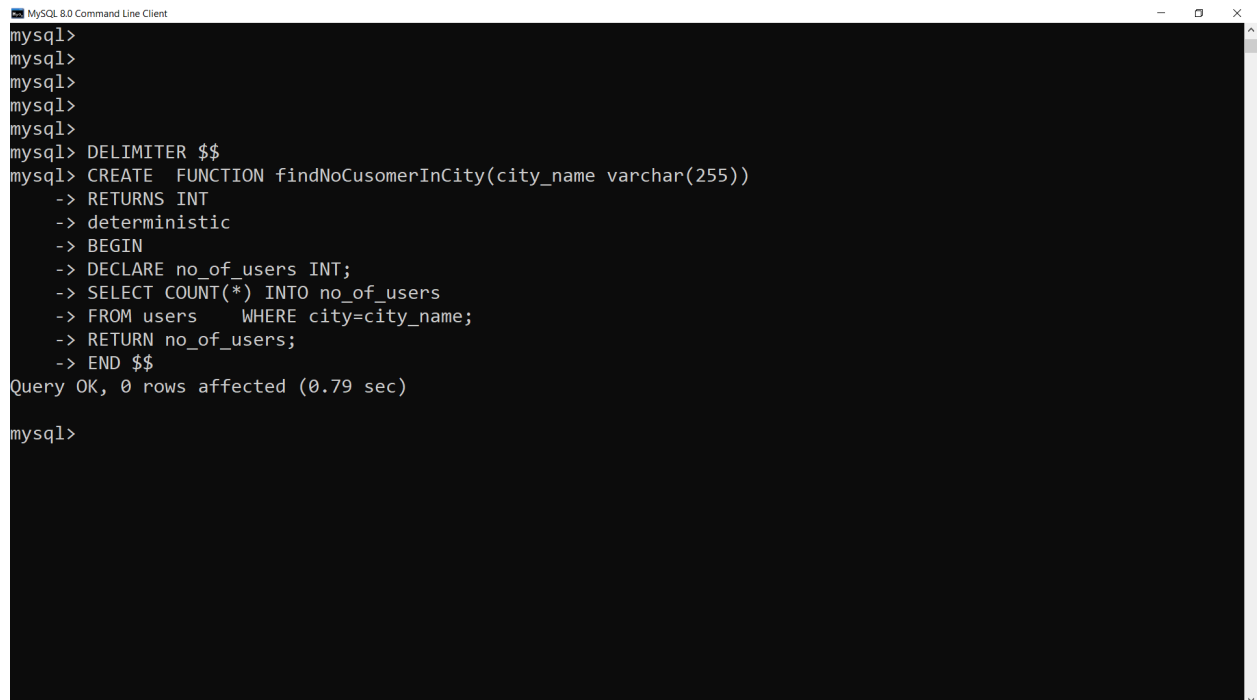


# DBMS assignment 6

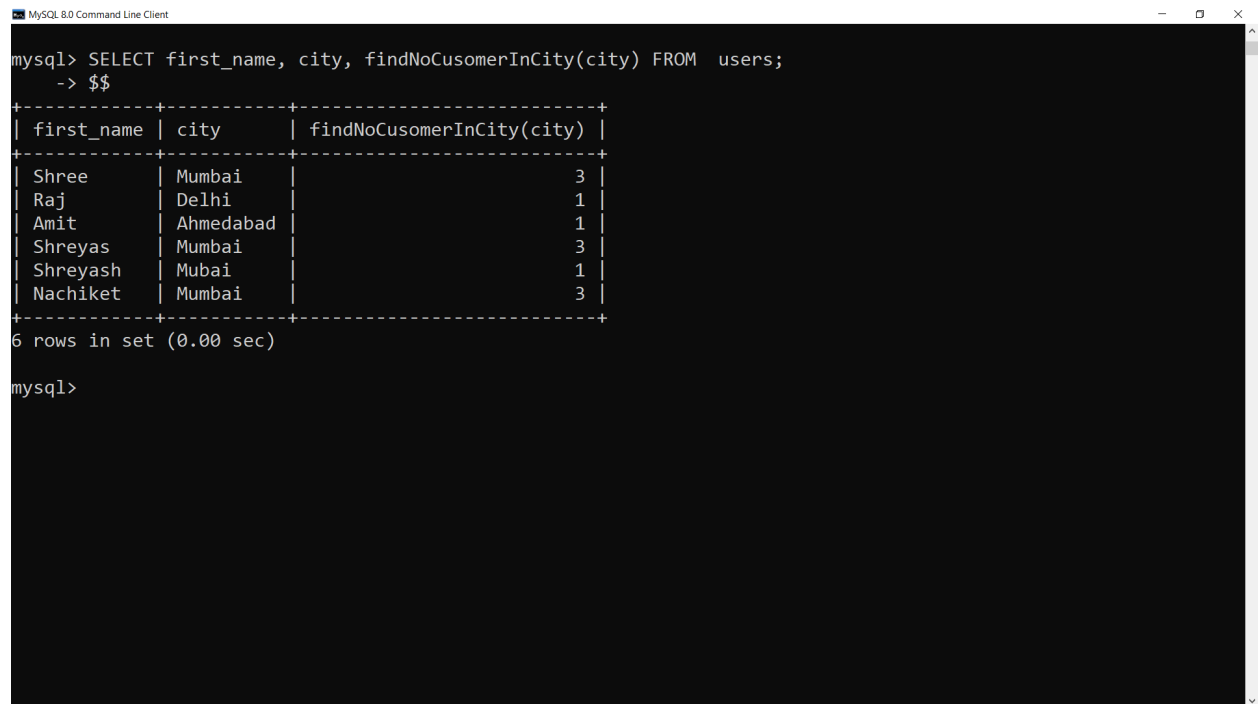
## FUNCTION WITH IN PARAMETER

```
DELIMITER $$  
CREATE FUNCTION findNoCusomerInCity(city_name varchar(255))  
RETURNS INT  
deterministic  
BEGIN  
    DECLARE no_of_users INT;  
    SELECT COUNT(*) INTO no_of_users  
    FROM users  
    WHERE city=city_name;  
    RETURN no_of_users;  
END;
```



```
MySQL 8.0 Command Line Client  
mysql>  
mysql>  
mysql>  
mysql>  
mysql>  
mysql> DELIMITER $$  
mysql> CREATE FUNCTION findNoCusomerInCity(city_name varchar(255))  
-> RETURNS INT  
-> deterministic  
-> BEGIN  
-> DECLARE no_of_users INT;  
-> SELECT COUNT(*) INTO no_of_users  
-> FROM users WHERE city=city_name;  
-> RETURN no_of_users;  
-> END $$  
Query OK, 0 rows affected (0.79 sec)  
mysql>
```

```
SELECT first_name, city, findNoCusomerInCity(city)
FROM users;
```



The screenshot shows a MySQL 8.0 Command Line Client window. The user has entered the query: `mysql> SELECT first_name, city, findNoCusomerInCity(city) FROM users;`. The prompt `-> $$` indicates the query has been executed. The results are displayed in a table with three columns: `first_name`, `city`, and `findNoCusomerInCity(city)`. The table contains six rows of data. Below the table, it says `6 rows in set (0.00 sec)`. The prompt `mysql>` is visible at the bottom.

first_name	city	findNoCusomerInCity(city)
Shree	Mumbai	3
Raj	Delhi	1
Amit	Ahmedabad	1
Shreyas	Mumbai	3
Shreyash	Mubai	1
Nachiket	Mumbai	3

## PROCEDURE WITH OUT PARAMETER

```
create procedure countUserInCity(IN city varchar(255),out num
int)
begin
    select count(*) into num
    from users
    where city=city;
end //
```

```
MySQL 8.0 Command Line Client
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql>
mysql> DELIMITER //
mysql> create procedure countUserInCity(IN city varchar(255),out num int)
    -> select count(*) into num
    -> from users
    -> where city=city;
    -> end //
Query OK, 0 rows affected (0.41 sec)
```

## OUTPUT

```
MySQL 8.0 Command Line Client
mysql>
mysql>
mysql>
mysql>
mysql> call countUserInCity('Mumbai',@num)//
Query OK, 1 row affected (0.00 sec)

mysql> select @num//
+-----+
| @num |
+-----+
|    6 |
+-----+
1 row in set (0.00 sec)

mysql> 
```

## PROCEDURE WITH IN PARAMETER

DELIMITER //

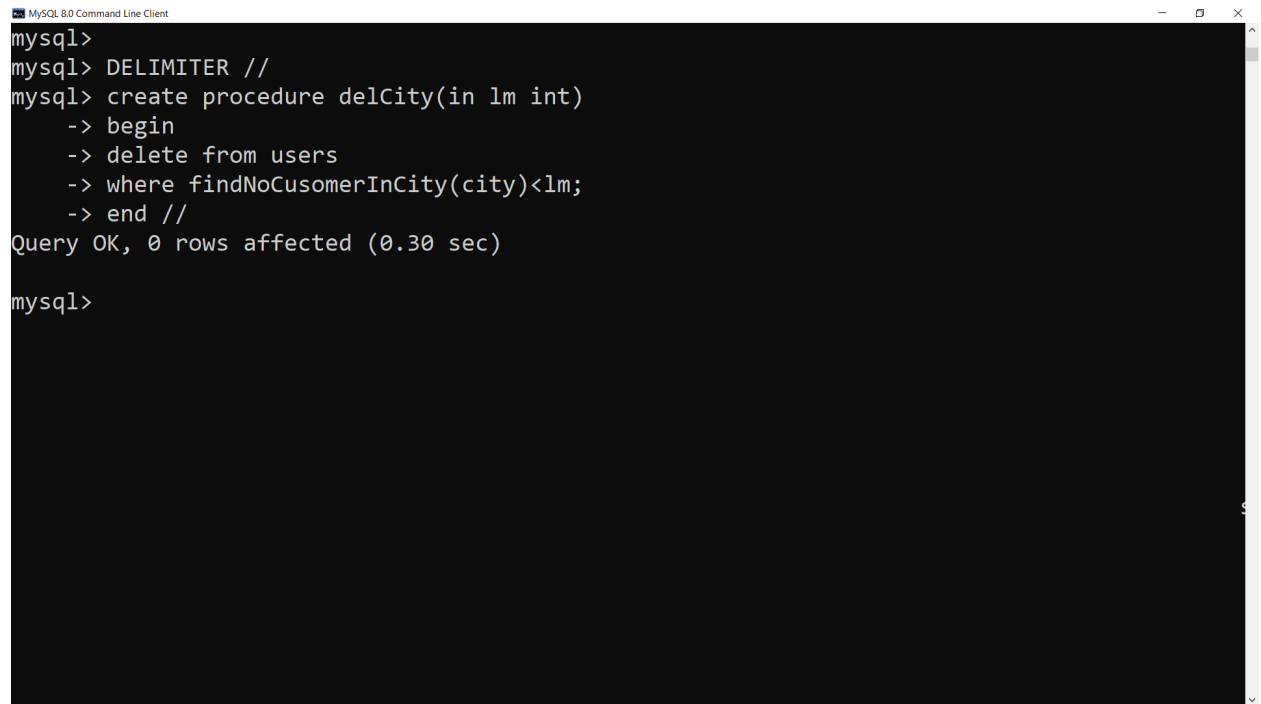
create procedure delCity(in lm int)

begin

    delete from users

    where findNoCusomerInCity(city)<lm;

end //



```
mysql>
mysql> DELIMITER //
mysql> create procedure delCity(in lm int)
-> begin
-> delete from users
-> where findNoCusomerInCity(city)<lm;
-> end //
Query OK, 0 rows affected (0.30 sec)

mysql>
```

The screenshot shows a terminal window titled "MySQL 8.0 Command Line Client". It displays the execution of the SQL code provided above. The prompt "mysql>" is shown at the start of each line. The output "Query OK, 0 rows affected (0.30 sec)" is shown after the procedure creation command. The prompt "mysql>" is shown again at the end.

