

Ex=9 Procedures and Functions

Create a recursive MySQL computing the factorial of a given number using high level programming Extension with Functions.

Create a simple procedure to get all the records from the table 'Employee' and List out the name, department, salary where salary > 20000 in the Table.

```
MySQL 8.0 Command Line CL  X
mysql> use db;
Database changed
mysql> desc employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(20) | YES |  | NULL |  |
| department | varchar(20) | YES |  | NULL |  |
| salary | float | YES |  | NULL |  |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.02 sec)

mysql> select * from employee;
+-----+-----+-----+
| name  | department | salary |
+-----+-----+-----+
| dinakar | manager | 65000 |
| abule  | developer | 65000 |
| surya  | tester   | 5000  |
| arunj  | ass_manager | 60000 |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> DELIMITER $$
mysql> CREATE PROCEDURE getall()
-> BEGIN
->   select * from employee where salary>20000;
-> END $$
Query OK, 0 rows affected (0.02 sec)

mysql> DELIMITER;
-> $$
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DELIMITER' at line 1
mysql> CALL getall();
-> $$
+-----+-----+-----+
| name  | department | salary |
+-----+-----+-----+
| dinakar | manager | 65000 |
| abule  | developer | 65000 |
| arunj  | ass_manager | 60000 |
+-----+-----+-----+
3 rows in set (0.01 sec)

Query OK, 0 rows affected (0.02 sec)

mysql>
```

```
MySQL 8.0 Command Line CL X + -
mysql> use db;
Database changed
mysql> desc employee;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(20) | YES | | NULL | |
| department | varchar(20) | YES | | NULL | |
| salary | float | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> call getall();
+-----+-----+-----+
| name | department | salary |
+-----+-----+-----+
| dinakar | manager | 65000 |
| abule | developer | 65000 |
| arunj | ass_manager | 60000 |
+-----+-----+-----+
3 rows in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

mysql> create function getdetails(department varchar(20), name varchar(20))
--> returns varchar(50) deterministic
--> return concat(department,' ',name);
Query OK, 0 rows affected (0.00 sec)

mysql> select getdetails(department, name) as details
--> from employee;
+-----+
| details |
+-----+
| manager dinakar |
| developer abule |
| tester surya |
| ass_manager arunj |
+-----+
4 rows in set (0.00 sec)

mysql> |
```