

```
mysql>
mysql> DELIMITER ;
mysql> SELECT factorial(5);
ERROR 1424 (HY000): Recursive stored functions and triggers are not allowed.
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE factorial(IN n INT, OUT result INT)
-> BEGIN
->     DECLARE i INT DEFAULT 1;
->     SET result = 1;
->
->     WHILE i <= n DO
->         SET result = result * i;
->         SET i = i + 1;
->     END WHILE;
-> END//
Query OK, 0 rows affected (0.08 sec)
```

```
mysql>
mysql> DELIMITER ;
mysql> CALL factorial(5, @result);
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> SELECT @result;
+-----+
| @result |
+-----+
|    120 |
+-----+
1 row in set (0.00 sec)
```