

NAME :- Divyang Bagla

PANEL :- D PD-33 (D2)

SUBJECT :- DBMS

ASSIGNMENT NO. – 5

- Product(prod_id, prod_name, qty_on_hand)
- Order(cust_id, prod_id, order_date, qty_ordered)
- Customer(cust_id, cust_name, phone, address)

Write a stored procedure to take the cust_id, prod_id and qty_ordered as input. Procedure should check if the order for a particular customer can be fulfilled and if yes then insert the new order and update the product quantity on hand. Display appropriate message if the order cannot be fulfilled. Output parameter must have updated value of the qty_on_hand.

```
MySQL localhost:33060+ ssl assn5 SQL > delimiter //
MySQL localhost:33060+ ssl assn5 SQL > create procedure new_orders(IN c_id int , IN p_id int , IN qt_or int , OUT qt_oh int)
-> begin
-> declare qt_ohd int ;
-> declare exit handler for not found select 'Order not found';
-> if c_id in (select cust_id from customer) then
-> select qty_on_hand into qt_ohd from product where prod_id = p_id;
-> if(qt_ohd >= qt_or) then
-> insert into orders (cust_id,prod_id,order_date,qty_ordered) values(c_id , p_id , curdate() , qt_or);
-> update product set qty_on_hand = (qt_ohd - qt_or) where prod_id = p_id;
-> select qty_on_hand into qt_oh from product where prod_id = p_id;
-> else
-> select 'Order cannot be fulfilled' as msg;
-> end if;
-> else
-> select 'Customer id is invalid';
-> end if;
-> end //
Query OK, 0 rows affected (0.1773 sec)
```

```

MySQL localhost:33060+ ssl assn5 SQL > call new_orders(1,1,30,@M)//
Query OK, 1 row affected (0.5681 sec)
MySQL localhost:33060+ ssl assn5 SQL > select * from orders;
-> //
+-----+-----+-----+-----+
| cust_id | prod_id | order_date | qty_ordered |
+-----+-----+-----+-----+
|      1 |      1 | 2020-08-31 |          30 |
+-----+-----+-----+-----+
1 row in set (0.0005 sec)
MySQL localhost:33060+ ssl assn5 SQL > select * from product;
-> //
+-----+-----+-----+
| prod_id | prod_name | qty_on_hand |
+-----+-----+-----+
|      1 | Eraser    |          20 |
|      2 | Pencil    |         100 |
+-----+-----+-----+
2 rows in set (0.0008 sec)
MySQL localhost:33060+ ssl assn5 SQL > select @M;
-> //
+-----+
| @M |
+-----+
| 20 |
+-----+
1 row in set (0.0006 sec)
MySQL localhost:33060+ ssl assn5 SQL > call new_orders(3,3,40,@M);
-> //
+-----+
| Order not found |
+-----+
| Order not found |
+-----+

```

```

MySQL localhost:33060+ ssl assn5 SQL > call new_orders(3,1,10,@M); //
Query OK, 1 row affected (0.4425 sec)
MySQL localhost:33060+ ssl assn5 SQL > select * from orders;
-> //
+-----+-----+-----+-----+
| cust_id | prod_id | order_date | qty_ordered |
+-----+-----+-----+-----+
|      1 |      1 | 2020-08-31 |          30 |
|      1 |      2 | 2020-08-31 |          50 |
|      3 |      1 | 2020-09-02 |          10 |
+-----+-----+-----+-----+
3 rows in set (0.0008 sec)
MySQL localhost:33060+ ssl assn5 SQL > select * from product //
+-----+-----+-----+
| prod_id | prod_name | qty_on_hand |
+-----+-----+-----+
|      1 | Eraser    |          10 |
|      2 | Pencil    |          50 |
+-----+-----+-----+
2 rows in set (0.1358 sec)
MySQL localhost:33060+ ssl assn5 SQL > call new_orders(4,1,10,@M); //
+-----+
| Customer id is invalid |
+-----+
| Customer id is invalid |
+-----+
1 row in set (0.0206 sec)
Query OK, 0 rows affected (0.0206 sec)

```

- Write a function to find total quantity ordered by taking cust_id and prod_id as input parameter.
- Also write a code to call the function

```
MySQL localhost:33060+ ssl assn5 SQL > delimiter //
MySQL localhost:33060+ ssl assn5 SQL > create function getTotalQty (c_id int , p_id int)
    -> returns int
    -> deterministic
    -> begin
    -> declare qty_ord int ;
    -> select qty_ordered into qty_ord from orders where cust_id = c_id and prod_id = p_id;
    -> return qty_ord;
    -> end //
Query OK, 0 rows affected (0.0906 sec)
MySQL localhost:33060+ ssl assn5 SQL > select getTotalQty(1,2)//
+-----+
| getTotalQty(1,2) |
+-----+
|          50      |
+-----+
1 row in set (0.1596 sec)
MySQL localhost:33060+ ssl assn5 SQL > select getTotalQty(1,1)//
+-----+
| getTotalQty(1,1) |
+-----+
|          30      |
+-----+
1 row in set (0.0006 sec)
```