

Assignment 4: Compose SQL statements to BEGIN a transaction, INSERT a new record into the 'orders' table, COMMIT the transaction, then UPDATE the 'products' table, and ROLLBACK the transaction.

### SQL statements to a transaction:

```
mysql> START TRANSACTION;
Query OK, 0 rows affected (0.00 sec)

mysql> INSERT INTO orders (order_id, customer_id, order_date, total_amount)
-> VALUES (1001, 1, '2024-05-31', 150.00);
Query OK, 1 row affected (0.00 sec)

mysql>
mysql> COMMIT;
Query OK, 0 rows affected (0.01 sec)

mysql>
mysql> UPDATE products
-> SET quantity = quantity - 1
-> WHERE product_id = 123;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql>
mysql> ROLLBACK;
Query OK, 0 rows affected (0.00 sec)

mysql> select * from orders;
+-----+-----+-----+-----+
| order_id | customer_id | order_date | total_amount |
+-----+-----+-----+-----+
| 101 | 1 | 2024-05-20 | 150.00 |
| 102 | 2 | 2024-05-21 | 200.00 |
| 103 | 3 | 2024-05-22 | 100.00 |
| 104 | 4 | 2024-05-23 | 250.00 |
| 105 | 5 | 2024-05-24 | 180.00 |
| 1001 | 1 | 2024-05-31 | 150.00 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select * from products;
+-----+-----+-----+
| product_id | product_name | quantity |
+-----+-----+-----+
| 123 | Product A | 7 |
| 124 | Product B | 15 |
| 125 | Product C | 20 |
+-----+-----+-----+
```

Activate Windows  
Go to Settings to activate Windows.