

TRIGGERS

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1. **calculate_total_price** (BEFORE INSERT ON Orders)

- Before inserting a new order, this trigger calculates the total price by adding making charges and wastage charges to the current price.

```
mysql> DELIMITER $$
```

```
mysql> CREATE TRIGGER
```

```
calculate_total_price
```

```
→ BEFORE INSERT ON Orders
```

```
→ FOR EACH ROW
```

```
→ BEGIN
```

```
→     DECLARE mc DECIMAL(10,2);
```

```
→     DECLARE wc DECIMAL(10,2);
```

```
→
```

```
→     SELECT makingcharges , wastagecharges INTO mc,wc
```

```
→     FROM Unit
```

```
→     WHERE unitid = NEW.unitid;
```

```
→
```

```
→     SET NEW.total_price = NEW.current_price + mc + wc;
```

```
→ END$$
```

```
Query OK, 0 rows affected (0.08 sec)
```

```
mysql> DELIMITER ;
```

```
mysql>
```

2. **after_payment_insert** (AFTER INSERT ON Payment)

- After a payment is made, this trigger updates the status of the corresponding unit(s) to 'Sold' and records the sale date based on the order date.

```
mysql> drop trigger if exists after_payment_insert;
```

```
Query OK, 0 rows affected (0.04 sec)
```

```

mysql> DELIMITER $$
mysql>
mysql> CREATE TRIGGER
after_payment_insert
→ AFTER INSERT ON payment
→ FOR EACH ROW
→ BEGIN
→   UPDATE Unit
→   SET status = 'Sold',
→       date_sold = (SELECT order_date FROM Orders WHERE orderid =
NEW.orderid)
→   WHERE unitid IN (
→       SELECT unitid FROM Order_Items WHERE orderid = NEW.orderid
→   );
→ END $$
Query OK, 0 rows affected (0.04 sec)

mysql>
mysql> DELIMITER ;
mysql>

```

3. **before_insert_order_items** (BEFORE INSERT ON Order_Items)

- Before inserting an order item, this trigger calculates the total price by adding making charges and wastage charges to the current price.

```

mysql> DELIMITER $$
mysql> CREATE TRIGGER
before_insert_order_items
→ BEFORE INSERT ON Order_Items
→ FOR EACH ROW
→ BEGIN
→   DECLARE mc DECIMAL(10,2);
→   DECLARE wc DECIMAL(10,2);
→
→   SELECT makingcharges,wastagecharges INTO mc , wc FROM UNIT
→   WHERE unitid = NEW.unitid;
→

```

→ SET NEW.total_price = NEW.current_price + mc + wc;

→ END \$\$

Query OK, 0 rows affected (0.06 sec)

mysql> DELIMITER ;

4. **after_insert_order_items** (AFTER INSERT ON Order_Items)

- After inserting an order item, this trigger updates the total price of the order by summing up the total price of all order items.

mysql> DELIMITER \$\$

mysql> CREATE TRIGGER

after_insert_order_items

→ AFTER INSERT ON Order_Items

→ FOR EACH ROW

→ BEGIN

→ UPDATE Orders

→ SET total_price = (

→ SELECT SUM(total_price)

→ FROM Order_Items

→ WHERE orderid = NEW.orderid

→)

→ WHERE orderid = NEW.orderid;

→ END \$\$

Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER ;

mysql>
