Q.Write and execute PL/SQL block to implement all types of triggers on Order Management DB.

(Consider row level and statement-level triggers)

```
mysql> show triggers;
+-------------------+--------+---------------+
----+------------------+
| Trigger           | Event  | Table         | Statement
                                                                                  | Timing | Created
          | sql_mode                                                                                       | Definer        | character_set_client | collation_connectio
n | Database Collation |
+-------------------+--------+---------------+
----+------------------+
| delete_order      | DELETE | orders        | begin update product p inner join orders_product op on p.p_id=op.p_id set stock=stock+quantity where op.o_id=old.o_id and op.p_id=p.p_id; end
                                                                                  | BEFORE | 2020-09-26 12:
04:49.42 | ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION | root@localhost | utf8mb4              | utf8mb4_0900_ai_ci
  | utf8mb4_0900_ai_ci |
| set_order_amount  | INSERT | orders_product | begin update orders set amount=(select sum(p.p_cost*op.quantity) as order_amount from orders_product op inner join product p on op.p_id=p.p_i
d where o_id=new.o_id) where o_id=new.o_id; end                                   | AFTER  | 2020-09-18 14:
47:49.10 | ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION | root@localhost | utf8mb4              | utf8mb4_0900_ai_ci
  | utf8mb4_0900_ai_ci |
| update_stock      | INSERT | orders_product | begin update product set stock=stock-new.quantity where p_id=new.p_id; end
                                                                                  | AFTER  | 2020-09-18 15:
22:54.23 | ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION | root@localhost | utf8mb4              | utf8mb4_0900_ai_ci
  | utf8mb4_0900_ai_ci |
| upd_items         | INSERT | orders_product | begin update orders o inner join orders_product op on o.o_id=op.o_id inner join product p on op.p_id=p.p_id set items=items+quantity where o.
o_id=new.o_id; end                                                               | AFTER  | 2020-09-23 11:
56:02.46 | ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION | root@localhost | utf8mb4              | utf8mb4_0900_ai_ci
  | utf8mb4_0900_ai_ci |
| undo_order_details | DELETE | orders_product | begin update orders o inner join orders_product op on o.o_id=op.o_id inner join product p on op.p_id=p.p_id set amount=amount-quantity*p_cost
 and items=items-quantity where o.o_id=old.o_id; update product p inner join orders_product op on p.p_id=op.p_id set stock=stock+quantity where op.p_id=old.p_id;end | BEFORE | 2020-09-23 11:
46:32.56 | ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION | root@localhost | utf8mb4              | utf8mb4_0900_ai_ci
  | utf8mb4_0900_ai_ci |
+-------------------+--------+---------------+
----+------------------+
5 rows in set (0.01 sec)
```

```
mysql> select * from orders_product;
+------+------+----------+
| o_id | p_id | quantity |
+------+------+----------+
|    1 |    1 |        1 |
|    1 |    2 |        1 |
|    3 |    2 |        1 |
|    4 |    4 |        1 |
|    6 |    4 |        1 |
|    5 |    6 |        3 |
|    4 |    3 |        2 |
|    5 |    5 |        1 |
|    6 |    5 |        1 |
|    7 |    4 |        1 |
|    7 |    6 |        1 |
+------+------+----------+
11 rows in set (0.03 sec)

mysql> select * from orders;
+------+------+-------+--------+------------+
| o_id | c_id | items | amount | o_date     |
+------+------+-------+--------+------------+
|    1 |    1 |     2 |   2000 | 2020-09-01 |
|    3 |    6 |     1 |    800 | 2018-09-01 |
|    4 |    1 |     1 |     50 | 2021-07-01 |
|    5 |    4 |     3 |   1700 | 2020-06-12 |
|    6 |    7 |     2 |    250 | 2020-05-05 |
|    7 |    4 |     2 |    550 | 2020-05-05 |
+------+------+-------+--------+------------+
6 rows in set (0.04 sec)

mysql> select * from product;
+------+----------+--------+-------+
| p_id | p_name   | p_cost | stock |
+------+----------+--------+-------+
|    1 | jeans    |   1200 |   100 |
|    2 | T-shirt  |    800 |   100 |
|    3 | jacket   |   1000 |   100 |
|    4 | notebook |     50 |    99 |
|    5 | hat      |    200 |    99 |
|    6 | sweater  |    500 |    99 |
+------+----------+--------+-------+
6 rows in set (0.03 sec)
```

```
mysql> insert into orders_product values (7,6,1);
Query OK, 1 row affected (0.08 sec)

mysql> insert into orders_product(7,6,1);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your My
mysql> select * from orders_product;
+------+------+----------+
| o_id | p_id | quantity |
+------+------+----------+
|    1 |    1 |        1 |
|    1 |    2 |        1 |
|    3 |    2 |        1 |
|    4 |    4 |        1 |
|    6 |    4 |        1 |
|    5 |    6 |        3 |
|    4 |    3 |        2 |
|    5 |    5 |        1 |
|    6 |    5 |        1 |
|    7 |    4 |        1 |
|    7 |    6 |        1 |
|    7 |    6 |        1 |
+------+------+----------+
12 rows in set (0.00 sec)

mysql> select * from orders;
+------+------+-------+--------+------------+
| o_id | c_id | items | amount | o_date     |
+------+------+-------+--------+------------+
|    1 |    1 |     2 |   2000 | 2020-09-01 |
|    3 |    6 |     1 |    800 | 2018-09-01 |
|    4 |    1 |     1 |     50 | 2021-07-01 |
|    5 |    4 |     3 |   1700 | 2020-06-12 |
|    6 |    7 |     2 |    250 | 2020-05-05 |
|    7 |    4 |     3 |   1050 | 2020-05-05 |
+------+------+-------+--------+------------+
6 rows in set (0.00 sec)

mysql> select * from product;
+------+----------+--------+-------+
| p_id | p_name   | p_cost | stock |
+------+----------+--------+-------+
|    1 | jeans    |   1200 |   100 |
|    2 | T-shirt  |    800 |   100 |
|    3 | jacket   |   1000 |   100 |
|    4 | notebook |     50 |    99 |
|    5 | hat      |    200 |    99 |
|    6 | sweater  |    500 |    98 |
+------+----------+--------+-------+
```