HW Murach Ch 16 Triggers Project

GROUP 21: Ara Chung, Dalton, Pooja, and Yogesh

Question:

Add two triggers of your choice (one has to be the audit table example but you can choose if you use insert, update or delete) to the Campus Eats database system. Test your triggers.

Ans:

Added two triggers in Campus eats database

- 1. Trigger on order table. Whenever an update occurs on the order table, trigger creates an entry in order audit table.
- 2. Trigger on ratings table. Whenever rating is deleted from the ratings table, row in driver ratings, restaurant rating is deleted with the same rating id.

```
use campus eats fall2020;
DROP TABLE IF EXISTS order audit;
CREATE TABLE order audit
 order id
              INT NOT NULL,
 delivery id
               INT NOT NULL,
 total price
              float NOT NULL,
               VARCHAR(50) NOT NULL,
 action type
 action date
               DATETIME NOT NULL
);
Drop Trigger IF EXISTS trigger Update after Order;
Drop Trigger IF EXISTS trigger delete before ratings;
DELIMITER $$
-- Trigger 1 on update on order details.
-- Insert in order audit table whenever an update occurs on order table
CREATE TRIGGER trigger update after Order
  AFTER Update ON 'order'
  FOR EACH ROW
BEGIN
  INSERT INTO order audit VALUES
  (NEW.order id, NEW.delivery id, NEW.total price, 'UPDATE', NOW());
END $$
```

```
-- Trigger 2 on ratings table.
-- On Delete of row from ratings table deletes row with same rating id from driver ratings,
restaurant ratings
CREATE TRIGGER trigger delete before ratings
  BEFORE delete ON 'ratings'
  FOR EACH ROW
BEGIN
   Delete from driver ratings where rating id = OLD.rating id;
   Delete from restaurant ratings where rating id = OLD.rating id;
END $$
DELIMITER:
-- Test the trigger on order audit table
Update 'order' set total price=350 where order id = 4;
select * from order audit;
-- Test the trigger on ratings table
select d.rating id, ontime rating, courteous rating, food rating, price rating
from driver ratings d join restaurant ratings r on d.rating id = r.rating id order by d.rating id;
```

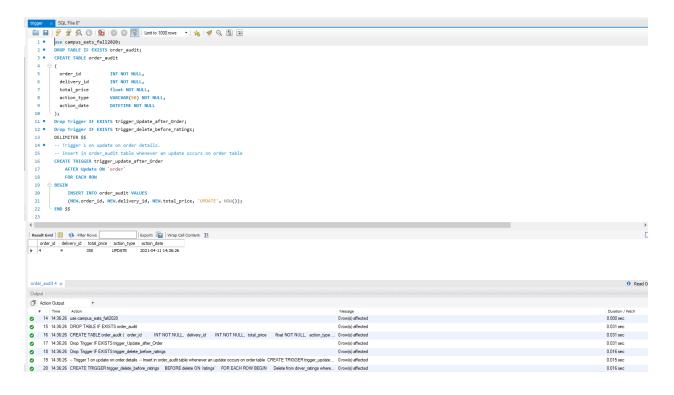
from driver ratings d join restaurant ratings r on d.rating id = r.rating id order by d.rating id;

Screenshots showing successful completion of triggers:

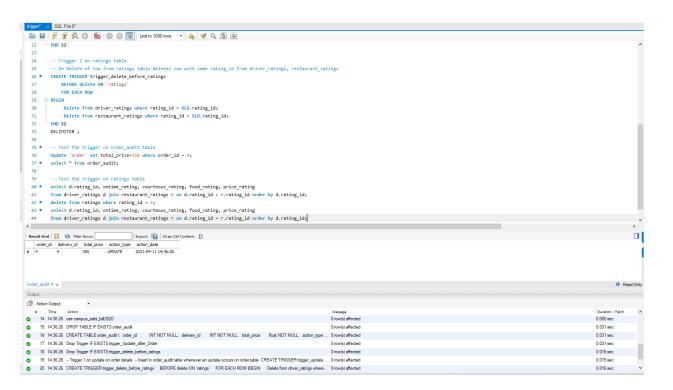
select d.rating id, ontime rating, courteous rating, food rating, price rating

1. Screenshot with trigger1

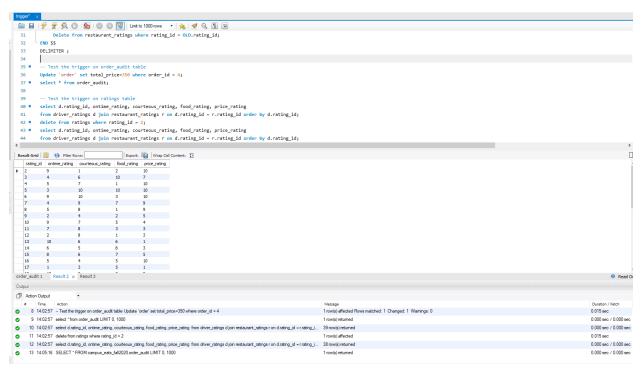
delete from ratings where rating id = 2;



2. With trigger 2 and Output of order_audit table



3. Output before delete on ratings table



4. Output after delete on ratings table

