Non-Conflicting Serializable transactions

1. START TRANSACTION; UPDATE Customers SET username = 'bruhmemer', contact info = "387-808-6458" WHERE customer id= 3; SELECT * from customers where first name='Norman'; COMMIT; START TRANSACTION; UPDATE Customers SET username = 'high-jackman', contact info = "424-563-4235" WHERE customer id = 13; SELECT * from customer where first name ='Atalanta'; COMMIT; 2. START TRANSACTION; -- Update the quantity of a product in the inventory **UPDATE** products SET count = count - 2 WHERE product id = 2; -- Insert a new order for a customer insert into orders (order id, customer id, ordered date, req date, shipping date, status, total amount, comments) values (114, 114, now(), now(), now(), 'ordered', '519', 'plankton raise'); select * from orders; COMMIT; START TRANSACTION; -- Update the customer's address **UPDATE Customers** SET username = 'vip' WHERE customer id = 100; select * from Customers; COMMIT;

START TRANSACTION;

-- update the product inventory
UPDATE Products SET price = price - 10 WHERE product id = 10;

-- insert a new order

insert into orders (order_id, customer_id, ordered_date, req_date, shipping_date, status, total_amount, comments) values (10, 10, '2023-02-15 15:05:00', '2022-02-14', '2022-09-23', 'ordered', '519', 'wizarding hole '); COMMIT;

START TRANSACTION;

-- update the customer's balance

UPDATE orders SET total_amount = total_amount - 50 WHERE customer_id = 3;

UPDATE orders SET status = 'ordered' WHERE order_id = 17;

COMMIT:

4.

START TRANSACTION;

insert into Products (category_id, product_id, p_name, count, price, description, stock, manf_date, expiry_date) values (96, 103, 'Loin feather', 200, 460, "it was just a lion feather", 'available', '2018-03-27', '2023-11-22');

-- Update the inventory for Product A
UPDATE Products SET count = count - 50 WHERE product id = 103;

insert into Customers (customer_id, first_name, last_name, username, password, contact_info) values (109, 'Aryann', 'malik', 'staffe0', 'fffdPaRLs', '161-435-1671');

-- Add a new order for John Doe

insert into orders (order_id, customer_id, ordered_date, req_date, shipping_date, status, total_amount, comments)

VALUES (104,(SELECT customer_id FROM Customers WHERE first_name = 'Aryann'),'2023-01-11 15:04:00', '2022-02-23', '2022-09-23','ordered','51017','Metadata');

Conflicting Serializable Transactions:

1.

START TRANSACTION;

- -- Update the inventory for Product A
 UPDATE Products SET count = count 50 WHERE product id = 99;
- -- Add a new order for John Doe

insert into orders (order_id, customer_id, ordered_date, req_date, shipping_date, status, total_amount, comments)

VALUES (106,(SELECT customer_id FROM Customers WHERE first_name = 'Aryann'),'2023-01-11 15:04:00', '2022-02-23', '2022-09-23','ordered','51017','Metadata'); select * from orders;

COMMIT;

START TRANSACTION;

- -- Update the inventory for Product B
 UPDATE Products SET count = count 30 WHERE product_id = 100;
- -- Add a new order for John Doe for Product B

insert into orders (order_id, customer_id, ordered_date, req_date, shipping_date, status, total_amount, comments)

VALUES (107,(SELECT customer_id FROM Customers WHERE first_name = 'Aryann'),'2023-01-11 15:04:00', '2022-02-23', '2022-09-23','ordered','51017','Metadata'); select * from orders;

COMMIT;

2.

-- Transaction 1:

START TRANSACTION:

UPDATE Products SET count = count - 7 WHERE product_id = 5; COMMIT:

-- Transaction 2:

START TRANSACTION:

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UPDATE Products SET count = count - 9 WHERE product_id = 5;
COMMIT;
3.
-- Transaction 1
START TRANSACTION;
UPDATE Customers SET contact_info ='161-405-1641' WHERE customer_id=4;
-- Transaction 2
START TRANSACTION;
UPDATE Customers SET contact info ='131-305-3601' WHERE customer id=4;
-- Commit one of the transactions
select * from Customers;
COMMIT;
-- Transaction 1
START TRANSACTION;
UPDATE Products SET stock=0 WHERE product id=1;
-- Transaction 2
START TRANSACTION;
insert into orders (order_id, customer_id, ordered_date, req_date, shipping_date, status,
total amount, comments) values (118, 118, '2023-02-13 14:11:09', '2022-07-18', '2022-11-29',
'ordered', '627', 'packet applicat');
-- Commit one of the transactions
select * from Products;
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select * from orders;

COMMIT;