

Transactions

#transaction 1

BEGIN;

UPDATE Products SET Prod_Stock = Prod_Stock - 10 WHERE Prod_price < 50 ;

SELECT Prod_Stock FROM Products WHERE Prod_ID = 2116;

COMMIT;

#transaction 2

BEGIN ;

UPDATE Customer_Reciept SET Quantity = 50 WHERE C_ID = 2632 AND Prod_id = 6148;

INSERT INTO Products (`Prod_ID`, `Prod_Name`, `Prod_Desc`, `Prod_price`, `Prod_Stock`)
VALUES (7273, ' Strawberry dipped chocolates', '', '37.33', '400');

COMMIT;

Conflict Serializable Schedule

T1: BEGIN;

T1: UPDATE Products SET Prod_Stock = Prod_Stock - 10 WHERE Prod_price < 50;

T2: BEGIN;

T2: UPDATE Customer_Reciept SET Quantity = 50 WHERE C_ID = 2632 AND Prod_id = 6148;

T1: SELECT Prod_Stock FROM Products WHERE Prod_ID = 2116;

T2: INSERT INTO Products (Prod_ID, Prod_Name, Prod_Desc, Prod_price, Prod_Stock)
VALUES (7273, ' Strawberry dipped chocolates', '', '37.33', '400');

T1: COMMIT;

T2: COMMIT;

Order	T1	T2
1	BEGIN	BEGIN
2	UPDATE Products SET Prod_Stock = Prod_Stock-10	UPDATE Customer_Reciept SET Quantity=50 WHERE C_ID=2632
3		INSERT INTO Products
4		COMMIT

5	SELECT Prod_Stock FROM Products WHERE Prod_ID=2116;	
6	COMMIT	

Non-Conflict Serializable Schedule

T1: BEGIN;

T1: UPDATE Products SET Prod_Stock = Prod_Stock - 10 WHERE Prod_price < 50;

T2: BEGIN;

T2: UPDATE Customer_Reciept SET Quantity = 50 WHERE C_ID = 2632 AND Prod_id = 6148;

T2: INSERT INTO Products (Prod_ID, Prod_Name, Prod_Desc, Prod_price, Prod_Stock)

VALUES (7273, ' Strawberry dipped chocolates', '', '37.33', '400');

T1: SELECT Prod_Stock FROM Products WHERE Prod_ID = 2116;

T1: COMMIT;

T2: COMMIT;

Order	T1	T2
1	BEGIN	BEGIN
2	UPDATE Products SET Prod_Stock = Prod_Stock-10	
3	SELECT Prod_Stock FROM Products WHERE Prod_ID=2116;	
4	COMMIT	
5		UPDATE Customer_Reciept SET Quantity=50 WHERE C_ID=2632
6		INSERT INTO Products
7		COMMIT