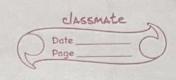


Soln: - Serialization can be used in this scenario (Assuming this scenario is quite common)
& hence, is the most effective approach lock-X(A) nead (A) if is - greater (A neg) A:= A-neggty werite (A) unlock (A) commit VIII lock-x(A) TX nead (A) X if is-greater (A, reggty2) 1 A: A - seggty 2 write (A) unlock (A) commit Notations:=) (A) denotes the stock/quantity of the Product which the 2 customers are trying to add "negated" & "negaty 2" and denote the neguired product quantity of both the customers, respectively "is greater" is a function which return whether the 1st parameter is greater than or equal to the 2nd parameter



Query 2:

M

The seller of the product trying to update the price of the item while at the same time, a customer tries to buy it (checkout cart).

* Elbat can be the Issue?

If a relier of the product tries to update the price of the item & a customer tries to checkout the cont with the same item at the same time, an issue may arise where the price is not updated and may lead to inconsistency in the database & hence, making it a conflicting transaction query.

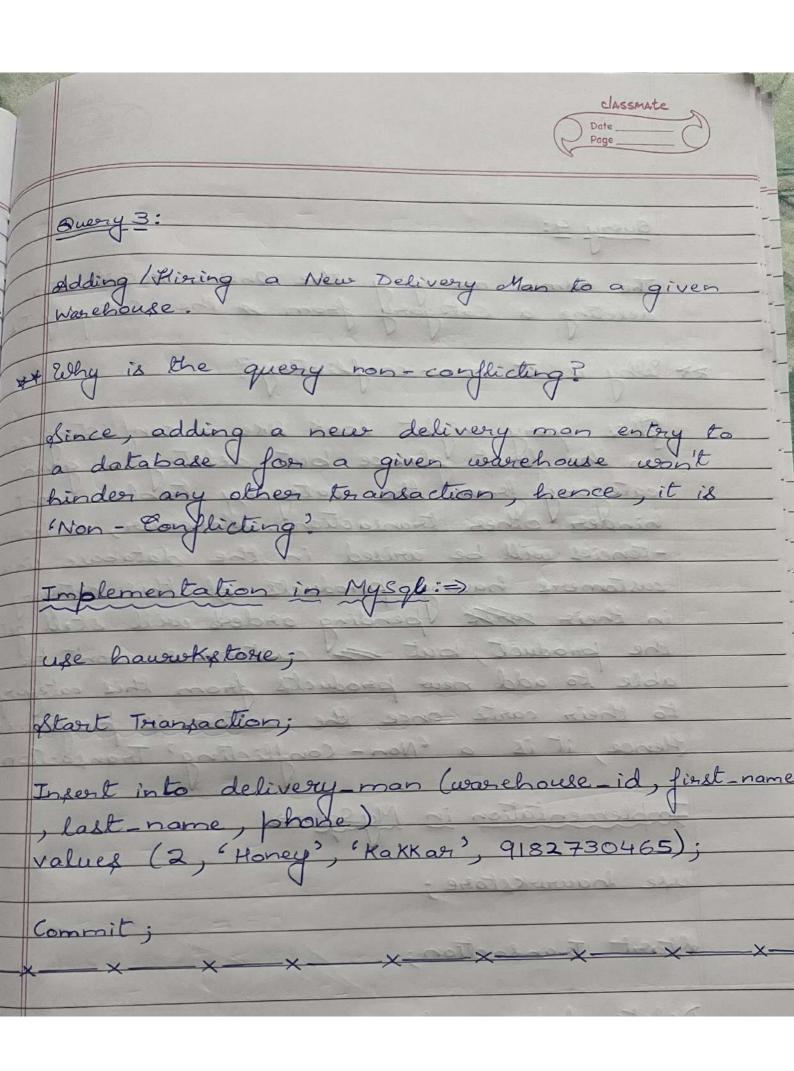
Soln:> lock-S(P) I read (P) LOCK-X(P) old-price:=P gread (P) unlock(P) P:= New-Price write (P) unlock (P) lock-S(P) commit read (P) temp:=P JX

unlock (P)

nead (c) C:= C + (temp - old-price) * gt XIII wente (C) commit XV XV # Here 'aty' =) Quantity of Product (whose price is updated) * Transaction (T2) denotes the one referring to the customer's cort & the first step is to use a shared rock on the Product whose original price is stored in Gold-price. A In the next few steps, after unlocking the shared resource, Transaction (TI) pertaining to the seller puts an exclusive lock on the product whose price needs to be updated. product Transaction (T2) applies the shared lock to the product & stores the updated price of the product in 6 temp? * Once the shared lock is released Transaction (T2) heads the cort Total of the customery supdates the total by writing it on the stored nesource, & finally commits those changes -x--x--x--x--x--x--

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Query 2: Explating the Phone No. of a customer with a give. * Why is the query non-conflicting? Since, the transaction query updates the persons information of a customer & does not hinder with any other transaction, hence, it is Non-Conflicting? Implementation in MySal:=> use hawarkstone; Start Transaction; Update customer-phone set phone = '8542687456' where phone = '6177222794' and id in (select id from customers where first-name = "Aleda" and last-name = "Le Garys"); Select cultomers id, phone from customer phone join customers on customers.id = customer-phone.id
where first-name = "Aleda" and last name = "Le Grys";
Commit: X X X



The same	classmate
	Classmate Date Page
-	Query 4:
	he Admin managing the Online Retail Store eleting a Category Jam on the Category Table
71	he Admin managing the Category
d	eleting a Category from
XX 8.0	thy is it non-conflicting?
7 1	
9	his query might took the
or	his query might look like a conflicting one the first glance but deleting a given
eq	tegory from the category table won't
P:	nder other transactions. Moreover, no inconsis
1	and the second of the second o
- 10	incies will be arised in the database since
cus	tomers having products of this categor.
in	their softs pending orders will still get
the	to dist to the stell get
100	product, but was customers won't be
	20 000 1-0 1-1-0 1 1-0 1
to	their carts once the
Hence	e it is formed
	Non-Conflicting Transaction
	their carts once the action is performed. e, it is a "Non-Conflicting" Transaction.
Imple	ementation in Mysgl :=>
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	transaction;
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