Ximan Liu

CSC 453

HW4

Q5)

S: [15 := 15 + 10; 25 := 25 - 10;]

T: [15 := 15 \* 2; 25 := 25 \* 2;]

U: [25 := 25 + 10; 15 := 15 - 10;]

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S: [15 := 25; 25 := 15;]

T: [15 := 30; 25 := 50;]

U: [25 := 35; 15 := 5;]

Q6)

a)

Yes, nonserializable behavior is possible.

Firstly, statements from the transaction 1 is executed and then the statements in transaction 2 will be executed.

b)

No, nonserializable behavior is not possible.

In transaction 2 only R values is being updated but the the result of second statement in transaction 1 which is belongs to relation S is same before and after the execution of transaction 2.