OST UPDATE PROBLEM

- TWO TRANSACTIONS ACCESS THE SAME PATABASE, T1, T2

TI read_item(X) X=100 X = 100 - 30 X := X - N

12

read_item (X) X=100

X = X + M

X = 100 +25

= 12.5

write_item(X) | x = 70 K read_Item(Y) Y = 360

Y:= Y+N Y=360+10 write-Item (Y) Y=370

write_item(X) X = 125

X is OVERWRITTEN

This change is lost!

LOST UPPATE!

EMPORARY UPDATE PROBLEM

- ONE TRANSACTION UPDATES THE DATABASE BUT IT FAILS FOR SOME REASON, TI
- ANOTHER TRANSACTION READS THE UPDATED VALUE BEFORE IT IS CHANGED BACK TO ITS ORIGINAL VALUE, 12

read_item(X) x=100

X:= X-N X=100-30

write_item(X) x=70

read_item (Y)

undo-the-changes X=100

read_Item (X) | x=70 X := X + M X = 70 + 5Write_item (X) X = 75

this was a DIRTY READ !