

CS245 Database System Principles – Winter 2004
Assignment 7

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Problem 1

a)

<0, T3, start>
<3, T1, start>
<6, T3, tax, 2, 3>
<7, T3, commit>
<8, T2, start>
<12, T2, tax, 3, 4>
<13, T2, commit>
<14, CHKPT start, T1 active>
<17, T1, salary, 1, 2>
<18, CHKPT end>
<19, T1, commit>

b.1) T1

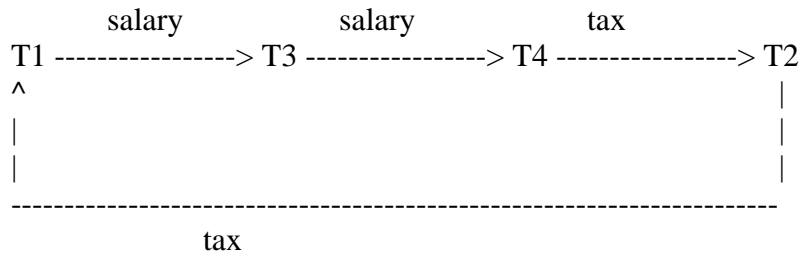
b.2) T3

c.1) T1

c.2) None

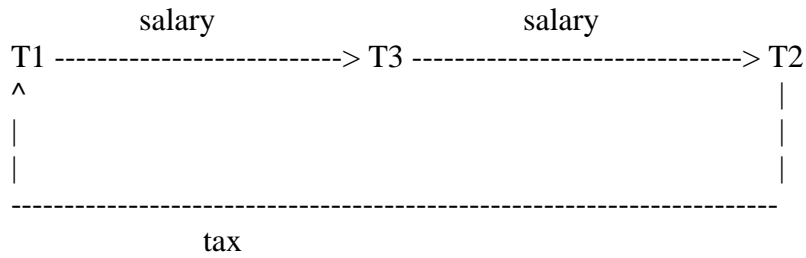
Problem 2

a)



b) None, cycle exists

c)



d) T2 T1 T3

Problem 3

a) $S(*, X, Y, Z)$

b) $S(W, X, *, *)$, $S(W, *, Y, *)$

c) $S(W, X, *, *)$, $S(W, *, Y, *)$, $S(*, X, Y, Z)$

d) $S(W, X, Y, Z)$