Student ID:33429472 Student Name:Ziqi Pei Unit Code:FIT9132 Applied Class No:A12

Comments for your marker:

(a)

TIME	TRANS	ACTION	Α	В	С	D
0	T1	UPDATE A	X(T1)			
1	T1	UPDATE B		X(T1)		
2	T2	READ C			S(T2)	
3	T2	READ D				S(T2)
4	Т3	UPDATE A	T3 wait T1			
5	T2	UPDATE C			X(T2)	
6	T1	ROLLBACK	X(T3)			
7	T3	UPDATE C			T3 wait T2	
8	T2	UPDATE B		X(T2)		
9	T2	UPDATE A	T2 wait T3			

- Does a deadlock exist in this transaction sequence?
 Correct
- Explain why you came to this conclusion. Summarize, the deadlock arises due to the circular wait between T2, T3, and T1, where T2 is waiting for T3 to release the locks it holds, T3 is waiting for T1 to release the lock it holds, and T1 has already rolled back but is waiting for T2 and T3 to release their locks.

TRL ID	TRX NU M	PRE V PTR	NEX T PTR	OPERATIO N	TABLE	RO W ID	ATTRIBUT E	BEFOR E VALUE	AFTE R VALU E
1	1	NUL L	2	START	**** START TRABSACTI ON				
2	1	1	3	UPDATE	PRODUCT	ABC	PROD_QO H	77	76
3	1	2	4	UPDATE	PART	Α	PART_QO H	53	52
4	1	3	5	UPDATE	PART	В	PART_QO H	10	9
5	1	4	6	UPDATE	PART	С	PART_QO H	21	20
6	1	5	NUL L	СОММІТ	****END OF TRANSACTI ON				