Project Deadline - 6

for this assignment, we are supposed to make atleast two transactions & then make two schedules which are conflict serializable & non-conflict serializable transactions.

Schedule for

Conflicting

Non-Conflicting

Query I:

VIII

& seller updating the price of two products & at the same time, the admin is providing a discount on the same two products

Emflict Serializable Schedule

		X
step	Transaction, TI	Transaction, T2
Carry .	CAT STORM	74
919	nead (P)	TX
9) JI	P:= P, +100	TIIX
III	werite (P,)	VIX
IV		nead (Pi)
7		P:= P - 0.1*P
42-12-18-18-18-18-18-18-18-18-18-18-18-18-18-	original the best of	9 write (P)
VII	" dender the back	93
100		

CIA	SSMA	te
ate_ age_		7
	ate_	

		-
IX	read (P2)	
X	- P:= P+200	
য	write (Pa)	
XII	anment, we are.	nead (Ps)
XIII	meaching & then	P2:=P2-0.2*P
XIV	Mich senializable	
See XX 989	commit	serializable, R
XVI	VV	commit

Non-Conflict Servaligable Schedule

	- Live		
1	Step	Transaction, TI	Transaction, 12
	T	read (P,)	
	П	San AlfAl	read(Pi)
	M		No. 1
3.1	e of the	P := P + 100	s seller
		write (P,)	30 8 EL
4	Lame Kes	a discount on the	P:= P,-0.1*P
	AII		wente (P,)
	VIII Est	nead (P2)	Ranflict a
	X	men	read (P2)
	The Xacker	B:= P2+200	deb
	XI	write (P2)	
	XII	seed(R)	P2:= P2-0.2*
	XIII,	P = P + 100	write (P2)
	XIV	commit	111
	(S) XV	white (But 1 to 1)	commit
*	P:=R-0.1		T
	1-5		

Notation: 'P,' denotes the price of Product 1
6P2' denotes the price of Product 2

	K-X(B)	sol los	TXX
N.	Query-2:	5.2	TIXX
136	The second secon		ШХА
V	Ear Nich of	erializable Askedula	3 VIXX
	Los custome	ens trying to add	the same tra
	products in	their shopping carte	s at the same time
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		MVXX
_(	Conflict Ser	ializable Schedule	3
	Then	- Le	The same of the sale
	Ledules	it desidipole of	1 2 - 92 I
	Step	Transaction, T1	Transaction, T2
	Tonnacton	Timblaction TI	13%
	I	locK-X(A)	
	π	read (A)	
	(A)III	if is-greater (A, qtyAI)	T
	IV	A:=A-qtyAI	TIT
	¥	write (A)	VI
	VI.	unlock (A)	V
1	P II IV LOTES		Lock TX(A)
1	10-AVIIIA		head (A)
	AIX		if is-greater (A, qty A2)
	X	(A) base	if is-queater (A, qty A2) $A := A - qty A2$
	(A) XI (X	HIL Speakal B St. F	werite (A)
-	XII	18/8	unlock(A)
7		lock-X(B)	IIX
	XIY	head (B)	IIIX
	XV	if is-greater (B, qtyBI)	VIZ
-	XVI	B:= B-qtyB1	TZ-
11	- 8 XVII	write (B)	TVX
1	XIX	unlock(B)	TIVX
		A Part of the last	

XX

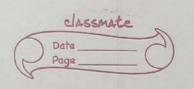
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6	DatePage	0

XXI	Lock-X(B)
XXII	read(B)
XXIII	if is-greater (B, gty B)  B:= B-gty B2
XXIV	B:= B- qty B2
XXV	write (B)
XXVI	anlock (B)
XXVII	commit and double and a stouband
XXVIII	commit
	(Portliet fraigligable ochedule)

T

7.2

	Elon - Confli	ct Serializable Sche	idule }
_	turele	, éculie	1512
	Step	Transaction, TI	Transaction, T2
		(OCK-X(A)	T
	I	read (A)	T
	II ()	if is greater (A. gliph	read(A)
	A	if is greater (A, glyA1)  A:= A - glyA1  write (A)	VI
	N	A:=A-gtyAI	Y
	V	write (A)	IV
	Lock IV (A)		if ix I greater (A, gtyl)  A:= A-gtyA2
	(VIII)		A:= A-qtyA2
(A)	astroville 1		write (A)
AZ	AXIA-OF	read (B)	Y
	(AXSTIPED)	it is - meater B. at BN	read (B)
	(AXI olaw	Bigg	IIX
	XII	if is greater (B, qtyBI)	NIX
	XIII	if is-greater (B, qtyBI) B:=B-qtyBI	VIX
	XIV	write (B)	VX
	XV	BEB-90/BI	if is greater (B, 9/4)  B= B-9ty B2
	XVI	uselite (B) V (	
	XVII	unlack(B)	write (B)
	XVIII	Commit	commit
	XIX		Commiu



Notation: 'A' denotes the quantity/stock of Product A

'B' denotes the quantity/stock of Product B

'gty A1' denotes the required quantity by

Customer 1 (of Product A)

'aty A2' denotes the required quantity of

Froduct A by Customer 2

'aty B1' denotes the required quantity of

Fooduct B by Customer 1

'aty B2' denotes the required quantity of

Froduct B by Customer 2

'is-greater' is a function which returns

whether the 1st parameter is greater than

on equal to the 2nd parameter.