Please write all your answers in the designated area of each problem clearly. Circle your choice and explain if required. Do not use the answer sheet as scratch paper. Do not write in the back.

UID: 404-640-158 NAME: Jason less	
Problem A	
1. Yes No Explanation: (an display this width a precedence graph at A To a cycle exite, If acyclic atten conflict existinable	
2. Under Strict 2PL = b travactors was a release lock-x's what the end of the treasection TO TO TO A west-for graph = D If cycle, then the reliable is in develock pock-x(A) where A part for lock-x(C) what for lock-x(C) wh	
3. With word-wit = Oller transections will would (Attack) younger transaction. Now, the lectedire will complete. Instead of miling for a lock on (, TI will rollback TB, and good the necessary I and finish and por restarting (depending on when). To will either unit for fire will want for TI to release locks and finish and por restarting (depending on when). To will either unit for fire of a still day transaction: 4. Yes No Explanation: -for a stillature to be carradeless = D If T; re-ds = data item uniter previously by Tiples T; mat growth before T; re-ds = data item uniter previously by Transactions want	orter 12,73
To then to most count before to read of the reliedile in Q? is order short 201 francious wan't but the like (lock-xis) until the end of their transaction. In addition, or it is would write younger transactions will count for the locks held by other franciscours. Perefore, it will guarantee crediteless reliediless as the other transactions, and the comment before the younger over all read that item	ens edus that
3) · Timertamphoed postscol => TI IZ IZ	
start ON-TS(A) = TS(T1) start OTS(T2) > U-TS(A), po pad executes, R-TS(A)=T mode() unde(e)(3) U-T(c)=TS(T7)	
76. Yes No whi(i) rend(() (A) Jo rend reported, To rolled back the transfer of	**
	Lack
(6) (Fe) No = 1 Finestump travel protects prevent doubtest Duil the something of the formation on with for low of is to [prevent storation] > This is to [prevent sto	cty New Society

UID: 424-640-158

NAME: Jason Less

Problem B

1. True False

2. True False

3. True False

4. True False

5. True False

6. True False

7. Yes No

Explanation: A relaw is 3NF if fr-11fDr eith @ Trivial or andidate key

As the For for the year selection either have @ Right side is part of a consider key

the Left-side or added feys, or the eight sides are part of the andidate key

8. - Will regard the extention of all month offsairted with the 629 enter

9. (Hes (sname, come, maps)

Ales (sname, popl)

cities some of Adelinane

UID:	404	-640-118	NAME:	Form Less	
Prob	lem C				
1. Expla	nation: , [Fals le checkpants main . The goal of the checkpant checkpant where caseding o	expert is to drawling	to raid but Reach that consider brains	ik log during from before the of pot in place (they committing from getting before)
2. Expla	nation: "A	checkpoint orbiter	I a cleetlet factore on my	e Nough of its tite no. Henself we tid have no Hed transchures streq.	trongerting before in good, checkpanty help alloweds tyet committed which recovery otor, let be procedure sectpoint, it will be more if no refund diserant deside an consillated
3. Expla	True nation:	for realist discu	reed in (1) and (2)	the work tracker or	doern't de ide or constitut
	nation:		heckpoint forces the buff, dick I actually force than to occurred, then these forces	Cerr for all running to count sucher circle potentially	he undone
5. Expla	True	False Yes, it can still a The lar of dece off the recover and may repeat	se uplete recovery sprite till bowers ste y may true to last for recovery on some transce	or the recorny prop then for the "latest" for that had already	credown checkpoint (not demoged), consitted (i.e. redotten)

UID	. YO	4-690-151	3	NAME:	Jahn Less			
OID	Augustica (Carlo Taga Anti-Angusta (Carlo Carlo		MA marginistic state of the Section And Section Sec	. 47 (191 2000)	an special desiration of the second s			
Prob	olem D							
Expla	L= ABCDE (ey(N)=AC,	BC /1	to be PCNE,	vel	not enter be () The left-hand	sak is a condid	de bey
2. 1	to, last cano.	and be	appeal wh	2 afterbole CHE =	or the right	1 de 1 DACHII 1 DACHII		
3.	R= ARCDE Rey (Al = AC) B+= F LI (AR) Rey (Al)	I REAL OF THE	wher of the of the of the property relation is a (BODE) = BODE	The attravter	confishor List of Recompact of R	ion relations is a land R. Men (D RIVERT - R	1
only list	sy deempedin		07(PE) > key(07)=7	RY(E Ky(R	3(p) 16(p) (0)	ALABORY =	P) R3(DE) A5(D ABCDE = R /	and the second s
	Yes AC-38 ~	N		The second secon	- The state of the			
	a Credit							
1.	Α	B	C					
2.	Α	В	С	D				
3.	Α	В	(c)	D				

uin.	424-640-158	NAME:	Jacon	less	
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(Extra sheet if you need to use)