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_	Name: Kalani Kasan Giyan DBMS
-	Name: Kalam subject : DBMS semester : 5
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2	in the concurrency control, the multiple
	to be executed similar
	affect the transaction of
	a really important to maintain the
	execution of those teans actions
	These conflicts mostly occur with multi-uses
	GUS FEM.
	(8) Thexeboxe concurrency control is the most
	impostant element for proper henchoning
	DBMS where how ox more autobase
	transactions are executed simultaneously.
	v) vations concurrency control protocols dise.
	a) Two phase locking protocol
	The (2Pi) Synchoonizes reads and writes by
	explicity detecting and preventing confircts
	between concussent operates.
	b) Before reading data item (x) a transaction must
	"own" a sead lock X. Betoke wspring into X,
	transaction must "own" a worte lock on X.
-	
	The ownesship of lock is governed by two sules.
1	The our course
-	a) notherent transaction cannot simultaneously own
+	confiscing works (i.e wr)
+	P.T.O.
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	b) Once a transaction Gurrenders ownerships of a lock it may never obtain additional locks. There is a synchronization two locks confilled it both are locks on same data item one is a sead lock and other is a write lock. The www synchronization has tooks confilled it both locks on same data item and both are write locks. The second lock ownership rule causes every
	transaction to obtain locks 9n two phase manner.
	Growing phase: Transaction may obtain in number of new locks but may hot release any lock.
	Bhoinking phase + Transaction may release locks but Cannot Obtain any new lock
	Maildation Based Protocol'-
	They are known as optimistic concurrency control
	technique is a method he avoid concurrency
	in transaction. The validation phase protocol
	is perforted in three phases.
	? Read phase.
	P) Vaildation phase.
	in worke phase

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a) Read phase:

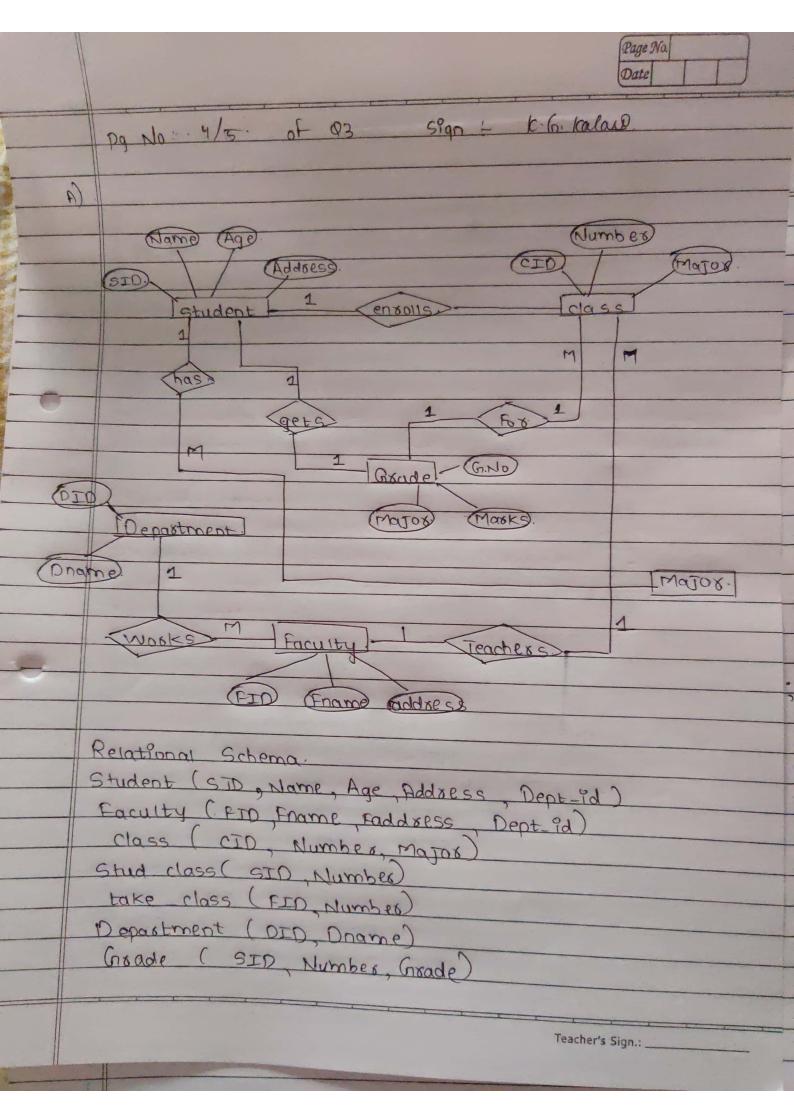
In Read phase, the data values from database can be read by transaction but usite operation of appares are only applied to local data copies not actual database.

In this phase the data is checked to ensure that these is no violation of serializability while applying transaction updates to database.

Do wiste phase, the updates are applied to database of varidation is successful else the updates are not applied and transaction is sometimes.

P.T.D.

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8)	WHERE to chas I date of Join, 'mm') = '10';
	© SUPDATE employee. SET City = "Mumbai" WHERE employee name = "Anjai?";
•	FROM employee P, employee R, employee M. WHERE Pemployee name = M. employee name and M. manages iname = R. amployee name and P. street = Ristreet and Picity = Ricity;
	where salary > (select Aug (salary) From works);
-	U) UPDATE WORKS WOOKS. SET Salary: 1.15 * Salary: WHERE company name = "ABC cooposation");

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