3/5/2/

DataBase Management System End Sem Exam: CS310

Name: M. Roja.

Roll No: 19BCSOGF

13, True, A doms is typically shared amony many users, and the transactions from these users can be interleaved to improve the execution time of user's queries. By interleaving queries, users do not have to wait for other user's transaction to complete fully befor their Own transaction begins. Without interleaving, if the user A begins a transaction that will take 10 sec to complete, and if user B also want to do transaction he should again wait for 10 more sec until user A completes

go, dbms interleave the actions of different transactions instead of executing transactions one after the other.

4) a) A user must quarantee that his her transaching does not compt data insert monsense in the data base. For example, in a banking database, a user must quarantee that a cash withdraw transaction accurately insdels the amount a person removes from his or her account. A database application would be conthless if a person removed so dollars from an ATM but the transaction set their balance to zero!

- b)-A dbms must quarantee that transactions are executed fully and independently of other transactions. An essential property of a dbms is that a transaction should execute atomically; or as if it is the only transaction running. Also, transactions will either complete fully, or will be aborted and the database returned to its its in that state. This ensures that the database remoins consistent.
- a) a) The ddl 9s important 9n representing information database because 9t 9s used to describe external and logical schemes.
 - 6) DML 9s used to access and update data, Pit 9s not important for representing the data.
- 1) Using emphase as a clustered findex is possible only when every employee will have a unique name. If this is ensured, the tuples will be arganized according emphase alphabetically.

Using empted as a clustered findex is also possible convidency everyone already has a unique it assigned to them. The tuples will be organized according to empth.

Vising both emphane & emprid as clustered index may not be possible but it is possible to two have one clustered index and one non-clustered index.

9) The following View on Emp can be updated automatically by updating Emp:

CREATE VIEW Serior Emp (cid, name, age, salary)
AS SELECT E.eid, E. ename, E. age, E. Salary
FROM Emp E
WHERE E.age > 50.

8) Tisname (Ti sid ((color = 'red' Parts) * (cost < 100 catalog) * suppliers))

The above query 9s 9n valid, go we cannot find the result or Output of the Query.

7) Let the two suppliers be R1. R2:

R(R, catalog)
R(R2, catalog)

TTR, PID FR, PID = R2. PIDAR. SID [= BSID (R, XR2)

Using the following

P .	SID	PID	cost	army Chair	, . (f	
	r _ it	1.12.	Cool	A Han	4	la i
	2	Trans. I	2000	1,900	1000	17.17
	2	3	3000			1200 P
	3	ţ	4000			
	\ 	ives us;		11 1994' : 11 11	p the	19- A
	SID	PID C	ost 511	D PID	CO	# 1
	prolo	grot gron,	1000	1 . 5 [1]	11/2 (6	000
00	1.20		looo			000 ⁽
_	,	(= V	1000	2 1 9	$mJ \stackrel{3}{\triangleright}$	000
	(1	0001	3	l u	000
	2	1	2000	I U	1	.000
	2	t c	2000	2		000
	alle no glan	(4) * (4) * (4) * (**	2000	2	3	2000
	2	1	2000	3	ţ	3000
ì	Z Like Franco	B. B. Co.	3000	$_{rac{1}{2}}$, $oldsymbol{ ext{T}}_{122}$	s Odi	4000
	2	3	3000	: 11.3	, so fee	1000
	2	3	3000	a	3	5000
	2	3.8	3000	7013)	3000
	2	3	3000	(NO. 1		4000
	3	1	4000	Trailet		1000
	3	i i gli	4000		111	2000
	3)	4000			
	3	1	4 000	ع ع	3	3000 4000
Control of the contro						

PRI-PIDERZ. PID, gives us

SQL3-

SELECT C. Sid

FROM catalog C

WHERE EXISTS (SELECT CI. sid

FROM catalog CI

WHERE CIPPID = C. pid AND CI- sid 6 = C. sid)

He help of instance, eq. In a one to many relation with we can consider the column altribate with unique Values as a primary key.