S. Venkata Ramana	CS 310	Date :- 6/05/21
19865096	DBMS	2.00 pm
CSE	END-EXAM	

Transaction from their wars can be talestowed to improve the execution time of wests queries.

By intribating queries, were do not have to wait for other users transaction to complete feelly before their own transaction begins.

Whethout Enterleaving, it was A begins a transcatus that will take 10 seconds to complete, and was is wants to begin a transacture, was B would have to wait and additional to records for was A's transacture to complete before the data base would begin processing was R's request.

(4) a) A user must guarantee seat his on her + nonsential dour not cuert upt data of busers nonsenseale in the data base.

For example, in a Banklog database, a user must guarantee that a cash withdraw transaction accurately models the amount a person removes from his on her account.

A database applicatees would be wonthless it aperon semoved

S. Ventata Ramora 19800016

20 dollars from an ATM but the transaction set theirs belance to gero!

- b) A DBHI must quarterible that transactions are executed fully and Independently of other transactions.

 And An execute atomically, or as if it is the only transaction recently. Also, transactions will either complete fully or will be aborted and the database returned to its initial state this ensures that the database gramains consistent.
- (2) a) DDL ? ? important in Representing information on DBMs because it is used to describe external and logical schemas.
 - it is not important for representing doctor.

S. Venkata Ramana 19800096.

FR. Epod the pide of poorts supplied by at boot two

P(R., Catalog)
P(K2, Catalog)

TR. pid OR. pid = R. pid ~ R. Sid 1 = R. sid (RI x Rz)

Unong-the following					
	210	PID	Cost		
	1	1	10		
	2_	1	9		
	2_	3	34		
	3	57 H	11	7	
			1		

Er. pid = R. prd gives

			1		
310	PID	Cost	SID	PID	Cont
1	1	10	1 2	1	10
(1	(0	2	. 1	9
\	1	10	3	1	11
2		9	١	١	10
2		q	2	١	9
		Q	3	,	13
٢	1				
2	3	34	2	3	34
					10
3	1	"		1	10
3	1	11	٤	1	9
2	1	11	3	t	11
	1 2 3		1	P. Allah	

Rixh, giver us:

		I		1	0 1
SID	PID	Cost	SID	PID	Cost
1	1	10	1	(10
1	١ ،	10	٤.	1	9
1	i	01	2	3	34
1	1	10	3	1	11
		9	١ ،	١	10
2	1	9	2_	1	9
۷	1	1		3	34
٧	1	વ	2	-	
2	1	٩	3	1	11
2	3	34	1	1	10
2	3	34	2	١	٩
ے	3	34	2	3	34
1/12	3	34	3	١	11
3	1	ti	1	١	10
3	1	11	2	1	9
3	1	11	2	3	34
3	1	11	3	1	11

[S. Yenkout a Ramana | lakesoab] 6 R. pid = R. pid ^ R. Sid & = R. Sid . giver.

SID	PID	Cost	CHD	PID	Cont
1	1	10	2	1	9
2	\	9	3	1	10
3	1	11	2	! !	10
1					

Projectery on PID gives us a stangle point rembon - 1 (eliminating the duplication.

SQL

SELECT C. Sid

FROM Catalog C

WHERE EXISTS (SELECT CI. Sid

FROM Caralog G WHERE C. Pid = Capid AND

CI. sid # 6 = C. Sid

(9). The following vein query on Emp can be updated alto automatically by updating Emp?

CREATE VIEW senion Emp (end, name, age, salvery)
AS SELECT Evid , E. ename, E. age, E. salvery

FROM Emp E WHERE E.age >50

- (1). Using emp name as a cluster index is Possible.

 only when every employee will have a unique name.

 If these is ensured, the tuples well be organized according emp name alphabetically.
 - . Using employ as a clustered index is definitely possible considering emeryone already has a unique id assigned to them, The tuples will be organized according to empid.
 - · Uxeng both emphame el empidous a clustered indexes many not be possible but it is possible to have one clustered index and non-clustered index.
- (5). Yes, we can determine the key of relation contribute the help of instance eg. En a one to many relation we can consider the column/ attribute with unique, values as aprimary key.

8

M Suppliess).

Invalid querry...

Actual Querry to make it work.

Thename (Thesid ((Toped or Colon = bied Posti) to (or cost 2100 Catalog) KI Supplier 21)

(6) 2) CREATE CLUSTERED ENSEX 1X-Student-Name.

ON Students (Steidert Name) .

De Et us! 1' create Ender on steeded Name.

* school Email from Sandart.

Dutput.

Taya @ x.yz.com

Th @ xyz.com

Chinhna @ pq.7.com