End Term foxamination

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Regno: 19BCS026

Osing emphase as a clustered index is possible only when every employed will have a unique name of this is ensured, the tuples will be organized ensured, the tuples will be organized according emphase alphabatically.

Using empid as a clustered index is definitely possible Considering everyone already has a unique id assigned already has a unique id assigned to them. The tuples will be organized according to empid.

Using both emprome be empid as a clustered indenes may not be possible but it is possible two name one clustered index and name one clustered index one non-clustered index.

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2) Am:

a) DDL is important in nepresenting information in DBMs because it is used to describe conternal and logical schemes.

b) DML is used to access and update data. it is not important for supersenting the data.

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Jame: True, Because A DBMs is typically Shared among many users. Iransactions from these users can be interleaved to improve the execution time of users queries. By interleaving queries, elsers als not have to wait for other user's transactions to complete fully before their own transaction begins. without interleaving, it user A begins a transaction that will take to seconds to complete, and user B wants to begin a transaction, user B would have to writ an additional 10 seconds for user 1's transaction to Complete before the database would begin processing user B's request.

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4) Am:

her transaction does not corrupt data or insert nonsense in the database. For example, in a banking clatabase, a User must guarantee that a cash withdraw transaction accurately models the amount a person removes from his or her account. A clatabase application would be worthless if a person removed 20 clothars from an ATM but the transaction set their balance to 3cro!

(b) A DBMS must quarantee that transactions are executed fully and independently of other transactions. In 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

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 fully, or will be aborted and the
 database returned to it's initial
 State: Shis ensures that the database
  remains consistent.
      P (R1, catalog)
      P (P2, catalog)
  TIPI. pid GRI. pid = N2. pid 1 P4. sid! = N2. sid
    Using:
                      cost
              DID
     SID
                     7 10.00
                     7 9.00
                     £34.00
                     7 11.00
     PIX P2 gives:
                                   Cost (D)
                  cost(=) sid pid
                                    10-00
            PID
    SID
                    10.00
                                    9.00
                   10.00
                    10.00
                                     11.00
                    10.00
```

Scanned by TapScanner

Name: B. Manikanta						
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310	PID	Cont Cas				10.00
2	1	9.00	1			9.00
8	,	9.00	2	1		34.00
1	1	9.00	2	3		11-00
	1	9.00	3	1		10.00
7	3	34.00	'	!		· q . 00
5	3	34.00	7	1		34.00
2	3	34.00	3	1		11.00
3	1	34.00	-	,		10.00
3	1	11.00	2	,		9.00
3	1		2	3		34.00
1	,	11.00	3	1		11.00
Cripid = Mipid gives:						
SED	pic		1		1	10.00
	,	10.00	,		1	9-00
	,	10.00			1	11.00
	1	10.00	,	,		10.00
2	1	9.00			,	9.00
	,	9.00	7		1	11.00
	,	9.00		3		
2	3	34.00	3		3	34.60
7	1	11.00	1		1	10.00
3	1	11.00	7		1	9.00
3	1		0	2	1	11.00
		-				

Name: B. Manikauta NO: 19BCS026 GRAPIE - Rapid naisid! = Rassid gives (ost pin pro cost SID 9.00 sid 10.00 11.00 10.00 10.00 11.00 9.00 10.00 9.00 9.00 11.00 11.00 projecting on pip gives us a single part number = 1 (ultimating the duplicates) soil avery: SELECT CSid from CATALOG. C WHERE EXISTS (SELECT 4. Sid FROM welene clipid and aisid = (.sid). Namo: B-Manikanta

NO: 19BCS026

(8) AM:

Invalid query.

Explanation: -This relational algebra statement

does not return anything because of the Sequence of projection

operators. Once the sid is projected,

it is the only field in the set.

Therefore, projecting on some will

not return anything

(5) Any: Yes, we can aletermine the key of relation with the belp of instance Eg. In a one to your many relation we can consider the Column attribute with unique values as a primary key.

Name: B. Manikanta No: 19BCS026 The query on Emp Schema that could be automatically updated by updating emp is CREATE VIEW Senior Emp (eid, c name, age, salary) As SELECT E. eid, f. ename, f. age, E. salary. from Emp E where Eage>50.