CS310 DBMS End Som Exam

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1.

Here In Given Question

Using emprome as a culsted index is
possible only when every employee will have
a unique name. It this is ensured, the
tuples will be orginized according emprome
alphabitally.

Using Empid as a clustered index is definedly possible considerty everyone already has a unique id assigned to there.

The tuples will be organized according to topid.

Using both emprance and empid as a clustered indexes may not be possible but it is possible two hand one clustered index and one ron-clustered index.

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= + DDL is important in representing information in DBMs because it is used to describe external and logical schemas.

* DML is used to access and update data. it is not important ton representing the data.

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3. True, A DBMs is typically should among many users. Transactions from these can be interleated to improve the execution time of the users quoies. By lintuleaving quaries, users do not have to wait for others users transactions to complete fully before their own transaction begins.

4.

a. A user must quarantee that their transaction must not corrupt data or ineat non-sensial or deplicates of data in the data -base. Also with any transaction (credit or withdrawal), the user must ensure that the transaction madels the amount helphe adds to or removes from his here account. The database application will be worthless it a user removed a small amount of money from their amount but the transaction set their balance to zero.

b. A DBMs must quarantee that all transaction are executed tully, successfully or independent of other transactions. An important property of DBMs would be the atomic execution, of traction running words, it must eeem that it is the only transaction running.

Transaction will either fully complete, or will be aborted and the database is returned to inital state. This encures the database consistency.

Yes, who can detaining the key of relation with the help of instance.

eq. In a one to many relation we can consider the column lattribute with unique relates as a primary key.

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TRI. Pid GR, Pid = RD, Pid AR, Gid &RD, sid

(R1 XRD)

SQL:

SELECT C. sid

From catalog.c

where exists (SELECT CI. sid

From catalog a

Where c. pid = c. pid = ANO

4. cid = c. sid)

? Invalid Query:

This relational algebra statement doesn't return anything because at the sequence of projection operators. Once the sid is projected, it is the only toild in the projected, it is the only toild in the set. Therefore, project ensure will not return anything.

The query on Emp schema that could be automatically applied by applied by applied emp is CREATE VIEW senior Emp (eid, ename, age, AB SELECT E. eid, E. ename, E. age, E. sabary From Emp E

where E. age > 50.