XV.S.Bharadwaj

- index is possible only when every employee will have a unique name. If this is ensured the typles will be organized to emphame.
 - is possible considering everyone has unique id assigned to them tuples will be organized according to empid.
- clustered indexes may not possible.

 but if there's a chance for possibility

 Two have one clustered index &

 one non-clustered index

2)

- The DDL is important in DBMs representing information because it is used to describe external and logical schemas
- and update data, it is not important for representing the data

3) yes it is true because borns is typically shared among many users . Transactions from these users can be interleaved to improve the execution time of users queries By interleaving queries asers don't have to wait for other user's transactions to complete. July before their own. transaction begins without interleaving

A DIME must quaranted that

Accordence one executed tully

independ of orner horisaction

The propert of brane is that a

transaction should execute.

- 4) a) A user must guarantee that the
- transaction doesn't corrupt data in 1, 2000 E - 11-11the database

Ex. In a xyz Banking database. a user must gurantee. that a cash. withdraw transaction accurately models the amount of a person removes from the account. A banking database application would be useless if a person vemove es 1000 from an ATM. but the. transaction. sets the balance to zero

b) A DIBMS must guarantee. that transactions are executed fully independently of other transactions the property of DBMs is that a transaction should execute.

either complete fully or will be aborted and database returned to its initial state. This proves that the banking database remains consistent

key with the help of instance.

Ex: In the one to many relation.

We can consider the column.

With the given unique values

as the primary key

a) create clustered index. IX-emphane.

STUDENTTable (student Name Desc)

Select fmail from STUDENTTable.

This query displays all the thails in descending order of student Name. first the table gets sorted based on student Name in OESC. order then the select query displays the

emalls in that

7) Relational Algebra:

P(R11 (atalog)

P(R2, catalog)

Ripid Ripid = R2. Pid A R1. Sid # R2 Sid (R1XR2)

21 8'- 2/1t 3 115 - 13 115

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SQL

SELECT C.Sid

from Catalog C.

WHERE EXISTS C SELECT CISIA

FROM. catalog "CI

· WHERE CI. Rid= C. pid

AND CISId = (sid)

the relation algebra doesn't return anything because of the sequence of projection.

operators once the sid is projected It is the only field in the set. Projecting on same will not return anything

is Follow . Fig. 1

1. 1. 3 36 3 . 3 38 1200 .

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