## CS310-DBMS END SEM

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1) - Using emp name as a clustered index is possible only when every employee will have a unique name. If it is present then tuple will be organized alphabetically.

-> Using empId as a clustered index is definitely Possible when everyone already has unique ID. Then Tuples will be organized according to EmpId.

- It is not possible to have both Chustered Index femp name, & Emp Id g. It is possible to have one clustered Index & one non clustered Index.
- DDL is important in representing information in DBMs because it is used to describe external and logical schemas.

  DML is used to update and data: it is not important for representing data.

BMS is typically shared among many users.

Transactions from these users can be interleaved to improve the execution time of users interleaved to improve the execution time of users queries. By interleaving queries users do not have to wait for other users transactions to complete fully before their own transaction begins.

Without interleaving, if user A begins a transaction.

That will take 10 seconds to Complete, and

that will take 10 seconds to would have

user B wants to begin a user B would have

to wait an additional 10 seconds for

to wait an additional 10 seconds before

user A's transaction to Complete before

the database would begin processing

the database would begin processing

user B's request.

19BCS 101 Sompalli Ajay kuwan as A user must guarantee that his transaction doesnot corrupt data or insert anything in the database. For example, in bounking database a user must guarantee that a cash withdrawn transaction accurately models the amount of a person removes from his account. A database would be worthless if a person removed or Ruppees from an ATM if a person removed or Ruppees from an ATM but the transaction set their balance to 0.

transactions are executed Completely and independently of other transactions. An independently of other transactions. An essential property of a DBMS is that essential property of a DBMS is that a transaction should execute atomically, or as if it is the only transaction or as if it is the only transaction will either running. Also, either transactions will either complete fully, or will be aborted and the database returned to its initial state. database returned to its initial state. This ensures the database remains

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## @ Create CLUSTERED INDEX IX\_student Name on Student-table (Student Name) { student-table & Name of table & Assuming

- (1005, Krishna, krishna@pgr.com 22) (1030, John, Null, 23) (1020, John, Jh@xyz.com, 22)
  - (5) We cannot determine a key of a relation given only one instance of the relation.

19BCS101 Sompalli Ajoy kuman Pids of parts that are supplied by alleast

two different suppliers in Relational Algebra:

TRI. pid (TRI. pid = Rz. Pid NRI. Sid + Rz. Sid (PRI Catalog))

\*\*Rz. Catalog))

SELECT C. pid

FROM Catalog C

WHERE EXISTS (SELECT C1. Sid

FROM Catalog C1

WHERE C1. pid = C. pid AND

C1. Sid \$\neq C. Sid\$

8 Names of the suppliers who supply Red parts and which costs less than 100.

19BCS 10 | Sompalli Ajay kuma O CREATE VIEW Emp-View as select eid, ename, age, salary from Emp

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