## DBMS-C5310

## End Term Examination

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- 1) \* wing emp name as a clustered index is possible only when every employee will have a unique name, if this is ensured, the pio will be organized accordingly emp name alphabitically,
- -ble, Considering everyone abready how a unique id assigned to them, The tuples will be organized according to Empid
- \* Wing both Emprame & Empid as a clustered inclines may not be possible but it is possible two have one clustered incline and one non-clustered inclin
- 2) \* DDL 11 important in representing information in DBMS because it it will to describe External & Logical schemas
  - \* DML is wed to access and update data
    it is not important for representing data

## 19Bcso28 (Chaithanyo.B)

- 3) A DBMS is typically shared among many wers.

  Transactions from these wers can be interleaved

  to improve the execution time of wers awars. By
  interleaving awards, wors don't have to wait for other
  wor's Transactions to Complete fully before their own
  transaction begins, without interleaving, if wer 'A'
  begins a transaction that will take to seconds to
  Complete and were 'B' wards to begin a transaction
  were 'B' would have to wait an additional to seconds
  for were 'A' transaction to complete before the data
  -base would begin processing were B's request
- 4) a) A user must quarantee that his or her trans,
   action does not corrupt data or insert non sense in the database. For example, in a banking database a user must quarantee their a cash withdraw transaction accurately models the amount a person removes from his or her account. A database application would be worthlus if a person removed so dollars from an ATM but the transaction set their balance to 3000

b) A DBMS must quarantee that transactions are Executed fully and endependently of other transactions. An Essential property of a DBMS Ps that a transaction Should execute automically, or as if it is the only transaction running. Also, transactions will either Complete fully, or will be aborted and the database returned to it's initial state, This Ensures that the database remains consistent.

8) SOLI'SELECT C. Sid

FROM CONDUCT

WHERE EXISTS (SELECT C1. Sid

FROM CONDUCTOR OF C1

WHERE C1. Pid = C. Pid AND

C1. Sid # C. Sid)

invalid Query:

Reason: This relational algebra statement does not return anything because of the Seawence of projection operators, once the SId PS Projected. it is the only field in the Set. Therefore, projecting on same will not return anything

## Chaithanya. B (19BCS022)

9) The following view on Emp can be updated automatically by updating Emp:

CREATE VIEW Senior Emp (eid, name, age, salwry)

AS SELECT E. eid, E. ename, E. age, E. salwry

FROM Emp E

WHERE E. age > 50

5) Yes, we can determine the key of relation with the help of instance. For ex, in one to many relation we can consider the column/ attribute with unique values as a primary key