

DBMS - END SEM

- 1) Using empname as clustered index is possible only when every employee has unique name. If this is guaranteed, the tuples will be ordered alphabetically.

Using empid as clustered index is possible considering everyone has unique id assigned to them. Tuples will be ordered by empid.

as clustered index

Using empname and empid may not be possible due to some cases like.

2 (a) DDL is important in representing info/structure in

DBMS because it is used to describe external and logical schema.

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

- 3) True, Usually DBMS is shared among multiple user. Transaction is interleaved to better the execution time of user queries. Interleaving the transaction improves the throughput. A server can handle multiple requests if you go serially then it will waste system resource but if you do interleaving it will utilise optimally all the resource.

4

- (a) A User does not need to guarantee anything with database inconsistency as this is the work of system to avoid taking error based input. What User should guarantee is not to impersonate someone & not borrow or lend credentials. A good system can avoid erroneous input from User.

- (b) A DBMS must guarantee that transaction are executed fully and completely independent of other transaction. And also transaction will be either fully or it will abort it & return database

to its ~~not~~ initial stage.

- 5) It is not possible to determine key of a relation with only one given instance of relation. The instance shown is one possible snapshot of relation. At other time some relation have entirely different set of tuple & hence we can't predict about those instances.

6

~~Create CLUSTERED INDEX IX_Man_LastName FirstName~~
~~ON~~

- 6) Create CLUSTERED_INDEX
IX_Person_LastName FirstName
ON Person, Person (LastName ASC, FIRSTNAME ASC)

19BCS09)

7) $\rho(R1, \text{catalog})$
 $\rho(R2, \text{catalog})$

$\pi_{R1.pid} \sigma_{R1.pid = R2.pid \wedge R1.sid \neq R2.sid} (R1 \times R2)$

8)

All supplier selling parts of each colour.
which costs less than 100.

19BCS091

RAVI

Date: / /

Page no.

9 Create View ImpEmp1

eid,
name,
age,
salary)

As Select E.eid, E.name, E.age, E.salary
From Emp E
Where E.age > 50