Nilin Bouday 06/05/2021 DBMS ENDSEM EXAM using emp name as a clustered index in possible only when every employee will have a unique name. If this is ensured, the luples will be organised accordingly emp name as alphabatically.
Using emp id as a clustored index
us definitely possible considering
useryone already has a unique id assigned to them. The tuples will be organized accordingly to empid. using both emp name and employed inclenes may not be possible but it possible to have one clusted index and one non-dustered index.

anwung many users. Iranoction
from these users can be interleaved
to improve the excution time of
users queries. By interleaving
queries, users denot have to waid
for other user's transoctions to
umplete fully before their own
transaction begins. wishout interleaving
that will take to stransaction
complete, and user 42 wards to
begin a transaction, user 42
userd to wait an additional so seconds for user As's transaction to complète before processing usere #2's request & overall it is to increase me browsection throughout.

4) a.) -- ? data ou must gurantee such his
data ou mert nomense in
the clababase. for enample, in a
banking database, a user must
quarantee such a cash wishdraw transaction accurately models the dries ou hou account. A database opplication would be worthless if a person removed so dollars from an ATM but the transaction set their balance to zero! A DBMS must gueranter that transactions are executed fully and independently of other transactions. And Mential property of a DBMS is that a transaction should be executed outs mos auto also also mically, on as y it is the only bigmortions will either complete bully, on will be abouted and the database returned to its initial state. This ensures that database remains consistent.

And the instance is "legal" is immoderial. A candidate key, as defined, is a kly, not something that only might be a key. The insteamed shown is just one possible inspection of a relation. At other dimes, the same relation may have an instance that contains a stotally different set of Luples, of we cannot make predictions about those instances based only upon the instance that

we one given.

5) - ?

19845080 P(R, catalog) P(Re, catalog) TI RI. Pid ORI. Pid = R2. Pid ARI. sid + R2. sid (RIX R2) TRC d T | ITI E Catalog (ITE & Catalog (T2. Pid = T1. Pid AT2. sid + T1. sid) AT. Pid = T1. Pid & DRC L LX> 1 LX,Y, X> Elatalog M JA, B, C (LA, B, C> E Catalog M B= YMA + X) } sq.l. SELECT L. Sid FROM Catalog C WHERE EXISTS (SELECT C1. sid FROM catalog (1 WHERE CI. pid = C. pid AND CI. sid +.

19865080 It is Invalid query. stolement does not veturn amything chion operators. Once is projected, it is in the set. There

	198680
q.)	Die following view on Emp can be updated at automatically by updating top
	EMP: CREATE VIEW SOMOHEMP (eid, name, age, salary) AS SELECT E. eid. E. ename, E. ege, E. salary.
	FROM Emp E WHERE Eage > 50.