DBMS EndSen Examination:

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1) Here In given Question,

is possible only when every employee will have a wrique name. If this is enswad, the tuples will be organized according emphasically.

Using Empid as a dustered index is definitely possible considerely encryone already has a unique id assigned to there Tuples will be organized according to Empid.

using both emphane and empid as as a clustered indexes may not be possible but it is possible two hand one dusted index and one non-dustoud index.

- 2) (i) DDL is important in representing information in DBNs, because it is used to describe enternal and logical sheets.
 - (ii) pML is used to access and update. data, it is not important for representing the data:

- 3. True, A DBMS typically shared among many users. Townsactions from these users can be interleaved to irrepresse the execution time of users' queries. By interleaving queries, users donet have to wait for others user's townsactions to complete fully before their own townsaction begins. Without interleaving if user A begins a transaction that will take to seconds to complete, and user B wants to begin a transaction user B would have to wait an additional 10 Seconds for user A's transaction to complete before the database would begin processing user B's request.
- 4. a) A user must guarter that his or here teransaction doesn't corrupt data (or) insent non-sense in the database. For example, in a backing database, a user must guarentee that a cash withdraw beansaction that will accurately models the amount a purson from his here account. If data buse application is worthdess if transaction curtain amount from an ATM but his teransaction set their balance to zero.

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b) A DBMS must guarantee that transactions are executed fully and endopendently of other transactions. As essential property of a PBMS is that a transaction should frecute automatically. (a) as if it is the only transaction running Also, transactions will either complete fully or will be abouted and the database retwened to its initial state. This ensures that the database remains constant

several as wish

5. Yes, we can determine the key of relation with the help of instance.

Ex: In a one to many relations we can consider the column latteribette with unique values as a primary key.

The more so sended on the

7) Relational Algebra:

P (RI, Catalog) P(Rz, catalog)

TRAPID = Repid = Repid A Risid + Rzisid (RixRz)

20T:

Cosid SELECT

FROM catalog C

WHERE EXISTS (SELECT CI-SIL

FROM Catalog C1

WHERE CI. pid = cipid AND

cresid + cosid)

8) Invalid query.

This relational algebra Statement doesn't reterm. anything because of the sequence of pringection operators. Once the sid is priojected, it is the only field in the set. Therefore, peroject ensome will not section anything.