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1. For empname it is possible to by. If every employ will have a unique name then using empname as a clustered index is possible. If this is ensured, the tuples will be organized according empname alphabatically.

By using empid as a clustered index is possible considering every one already has a unique id assigned. The tupple will be organized according to empid.

For Both empid and empname as a clustered index is not possible but for one clustered and non-clustered it is possible.

2. DDL is important in representation of Information in DBMS because it is used to describe external and logical schemas.

- DML is used to access and update Data, it is not important for represeating the Data

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(3) It is TRUE Because DBMS is shared among many end users. Transactions from those users can be interleaved, so, that it will improve the execution time of queries. By doing this users do not have to wait for other users transaction to complete fully before their own transaction begain.
for exaple there are two users who wants to begin their transaction if first user's transaction takes 20 Secand then second user have to wait for 20 Secand to Complete first user transaction then he can continu. this transaction. ~~So by inter~~

So, by interleaved we can reduce the execution time.

(4)

(a) A user must guarantee that his ~~or~~ transation does not corrupt data or insert nonsense in the database. like in a The database of Bank a user must guarantee that a cash withdraw transaction accurately models the amount a person remove from his account.
For exaple :- A person removes 500/- from his account ~~be~~ but the transaction set their balance to zero. This type of database application would be worthless.

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b) A DBMS must guarantee that transaction are executed fully and independetly of other transaction. If it depends then it will took more time to execute fully. So, the transaction should be executed automatically. Also, transaction will either complete fully or will be aborted and the database returned to it's initial state.

(5) you connot determine a key of a relation given only one instance of the relation. A candidate key is defined here is a key not something that only might be a key. The same relation may have an instance that contains a totally different set of tupples and we cannot make prediction about those instace based only upon the instace that are given.

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6)

CREATE CLUSTERED INDEX StudentName ON STUDENTID. STUDENTID (StudentName, Email, Age)

7)

$P(R_1, Catalog)$

$P(R_2, Catalog)$

$\Pi_{R_1.Pid}\ \sigma_{R_1.Pid = R_2.Pid \wedge R_1.Sid != R_2.Sid}\ (R_1 \times R_2)$

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(8) By the query the Table will contain all Suppliers selling parts of Red Color which costs less than 100.

(9)
```
CREATE VIEW STD (eid, name, age, Salary)
AS SELECT E.eid, E.ename, E.age, E.Salary
FROM Emp E
WHERE E.age > 50
```