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1)

Using emp name as a clustered index is possible only when every employee will have a unique name. If this is ensured, will be organised according.

Using empid as a clustered index is definitely possible considering every one already has a unique id assignment to them.

Using both emp name & empid as a clustered indexes may not be possible but it is possible to have One Clustered index.

2) DDL is important in representing informs because it is used to describe external and logical schema.

DML is used to access and update data it is not important for representing the data

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3) True,

DBMS Interleave the actions of different transaction. instead of executing one after other because, To Improve the execution time of users queries because of Interleaving queries, user will not wait for other user transaction to complete.

4)

a) User must guarantee that a transaction will be insert and update a relavent data in his account, For example if he removes an amount there should be update a remaining balance instead of wrong balance.

b) DBMS should guarantee that transactions are executed independently of other.

Atomically property of DBMS says. 'all or) none transaction running. transactions will complete fully or will be aborted and the DBMS returns final state.

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5) By the defination of ~~Primary~~ Primary. key.

every attribute in single instance can acts
Primary.
as a + key but if we add more instance.
Possible.
it will be ~~cael~~ ~~easy~~ to determine
Primary.
the * keys

6) a) Create Clustered index i x_ key_student
name.

on students (Student Name)

" let the table name is Students "

Select Email from students

b)

| StudentID | StudentName | Email | Age. |
|---|---|---|---|
| 100 S | krishna | krishna@pqr.com | 22 |
| 1030 | John | Null | |
| 10 20 | John | Jh@xyz.com | 22 |

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7) Sql query.

Select $C_1$. pid from catalog as $C_1$, catalog as $C_2$

where $C_1.Pid = C_2.Pid$ and $C_1.Sid <> C_2.Sid$.

relational algebra.

$$\sigma_{C_1.pid = C_2.pid \wedge C_1.Sid \neq C_2.Sid}.$$

8) Invalide query.

The statement will not return anything,
the sequence of Projection operators. once the
sid is projected, it is the only field in
the set. Therefore, Projecting on same will
not return any thing

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8)

9)

Create View Employee (cid, name, age, salary)

As. select E.cid, E.ename, E.age, E.salary

From EmpF