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- · No its not possible to all operators in DBM3
 - It's possible if we have both clustered index and one non-clustered index while using both emphane and emplot.
 - o It isn't possible if we have either both are clustered index or non-clustered index while using emphane and empid.
- 8. (i) Representing Information
 (ii) External Schemas
 (iii) Logical Schemas
 (iv) Access data
 (v) Update data
 (vi) Representing data.

3. A DBMS is typically shored among many users. Transaction from these users can be interleaved to improve the execution time of users quiveres. By interleaving quives, users don't have to wait for other users transactions to complete fully before their own transaction begins. Without interleaving, if user it begins a transaction that will take loser to complete and user B wants to begin a transaction, user B would have to wait an additional loseronds for user A transaction to complete before the database would begin processing user B's request. So finally the given quote is "TRUE".

4.0 A user must gurantee that his her transaction doesn't corrupt data or insert nonsense in the database. The xxz data base a user must gurantee that a cash withdraw transaction accorately models the amount a person removes from his or her account.

(b) A DBMS must guarantee that transactions one executed dully and independently of orther transcations.

Transcations will either complete fully, or will be aborted and return to intial state.

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

Ex In a one to many relation we can consider the Column lattribute with unique vaules as a primary Key.

6. a Create Clustured Index Lu - emprame-index ON Student table (Student Name DESC)

" se lect smail from student table

(b) Student ED Student Mame Email Age loss lovishna Kris @xyz 22 loss John Mull 23 loss Jh@xyz 22.

e (R., catalog) ((R2, Catalog)

MRI. pid TRI: Pid = R2-pid ARI. Sid! = R2. sid (RIXR2)

SID	PID	rost
(1	210:00
2	١	₹ q.00
2	3	₹ 34.00
2		₹ 11.00
3		

R, XR2 glues us:

SID 1 1 1 2 2 2 2 2	P (D) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	cost 10 10 10 10 10 10 10 10 10 10 10 10 10	SID 1 2 2 3 1 2 3	PID 1 3 1 1 3	cost 10 9 34 11 10
2 2 2 2 2 3 3 3 3 3	3 3 3 1 1 1 1	34 34 34	3	2 2 3	1 3 4 3 1 1 1 0 1 3 4 1 1 1 1 0

```
UR, Pid = R2 Pid giver us:
                PID 1087.
 SID PID Cost SID
  1 10 )
        10 2
        10
             3
                    D
   2 1
        9
            )
                 1 9
       9
   2 1
                1 11
        9 3
                 3 34
   2 3 84 2
                 1 10
    3 1 11 1
    3 1 11 2
                   1 11
      1 U
    3
 Tripid = Re. pid 1 Ri. Sid! z Re sid gives
  SID PID Cost SID PID Cost
               2 1 9
            10
                3 1 11
            10
                1
            9
    2
                3 1 11
            9
    2
                 1 1 10
           ))
    3
                    1 9.
                 2
            11
    3
```

SQL:

Select C.sid

From Catalog C

Where endsts Select (1.81d)

From Catalog (1

where Cr. Pid = C. pid AND

C1. sid + C. sid

8) [IS name (Tisid ((Tocolor = @ red | Parts) Des (Toost < 100 (catalog)) Des

Suppliers))

"Invaid querg"

9.) The view of Emp can be upadelted automatically by updating Emp

CREATE VIEW Sensor Emp (Fid name age salary)

AS SEIECT E. eld, E. ename, E.age, E. salony

FROM EMPE
WHERE f. age > 50.

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