END SEM

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i) using emprome as a clustered index "= possible. the typeles will be coarged at phabatically to emprome using empid as clustered index is definetly possible on every employee has a unique id emisigned to empid them, the types will be awanged according to empid them, the types will be awanged according to empid using both emprane & empid as clustered indexes using both emprane & empid as clustered indexes may not be possible but it is possible two may not be possible but it is possible two have one clustered index may and non-clustered index may and non-clustered index

2) suppresenting information external and logical

· access and update suppresenting information Frue, is shorted among many users, transactions 3), pBMs is shorted among many users, transactions from these users (on be interleaved to improve execution time, users need not wait for other user execution to wait before starting their transaction, transactions to wait before attenting their transaction, transactions take one after the other the response to the user's transactions take more time.

Work user must gavarantee that their transactions does not corrupt the data. In a for ex: In a banking database a user must gaussantee that the readed transaction a user must gaussantee that all the transactions are executed must gaussantee that all the transactions are executed must gaussantee that all the transactions. An important property independently of other transactions. An important property of DBMs is that transactionsts should execute atomically of DBMs is that transactionsts should execute atomically at DBMs is that transactions, should execute atomically of DBMs is that transactions, should execute atomically atomicity, consistency, Isolation, surrability.

5) Yes, we can determine the primary key of relation with the help of instance of relation we can eg. In a one to many relation we can consider the column 1 altribute with unique values as a primary key unique values as a primary key

contents clustered andex emplander on student Table (student Name Pesc)

select Email from studentiable.

7) P(R, catalog)

P (R2, Catalog) (RIXR) TIR-Pid R. Pid = R2-Pid / R1-sid 1 = R2-sid catalog:-SID PID cost sip 10 10 10 10 3 1 11 9 a) The tollowing view 16 939 34

10

34 3

At this point we one selecting for the clause, the first (FRI-Pid = Rz-Did) sid PID cost SID PID COST 1 10 10 9 1 11 1 3 10

The second clause gives us PID COST SID PID COST 10 3 10 2 1 10 9 1 10 2 1 11 1 9 2 11 1 11 3

9

1

adding in the third clause gives us PID cost SID PID cost SID 10 2 2 11

and brally SIP

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splect cosid

from cotalog c

where Exists (select clisic from cotalog

chese Exists (select clisic from cotalog

8) Invalid query:

Exploration:

This relational algebra statement does not return anything because of the squence of projection anything because of the squence of projected, it is the operators once the sid is projected, it is the only field in the set.

a) The following view on Emp can be updated astomatically by updating Emp!

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create view SenioriEmp (eid, name, age, salary)

As select E-eid, E-ename, E-age, E-solary

from Emp E

where Eage > 50.