end-Serral

Roll no: 1960soss

Dosing emprance as a clustered index is possible only when every employee will have a unique name. If this is ensured, the tuples will be organized according emprance alphabitcolly.

Using empid as a cluster index is definetly possible Considerly everyone disalready has a unique id assigned to there. The tuple will be organised according to empid.

Using both emphane tempole one a clustered indexes may not be possible but it is possible too hand one clustered index tone non-clustered index.

K. Sai Gancsh 2) as DOL is important in Representing information in lasms because it is used to describe External & Logical Sche - mes. b) on Lis used to modify and Manipula -te doctors it is not important for Representing the dotta

Name: K. Sai Ganesh Roll no: 19605055

True, A DBMS is typically shorted among many users. Transactions from these can be interleaved to improve the execution time of user's queries. By interleaving queries, users do not have to wait for other user's transactions to complete fully before their own transaction begins.

a) A user must guarantee that his con her transaction does not corrupt data con insent nonsense in the database for example, After the transaction was completed the database should update according to that. like if a user withdraw 1000 vs after Success-full transaction thre we should update his like vecord by dedicting the withdraw balance.

b). A DBMS must guarantee that
transactions are executed fully
& independently of other transac
-tions. An essential property of a
DBMS is that a transaction
should execute, automatically

K. Sai Garesh 1965055 or as if it is the only transaction running. Also, transactions will either complete fully, or will be aborted & the dotabose returned to it's initial State. This ensures that that the dotabose remains consistent 

K. Sai Ganesh

. 196csoss

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

. . .

7) Relational Algebra:
P(R1, Catalog)
P(R2, Catalog)

TRI. Pid RI. Pid = R2. Pid ARI. Sid # R2. Sid (RIXR2)

SELECT C.Sid

From catalog c

WHERE EXISTS ( SELECT CI.Sid

From cotalog CI

WHERE CI.PId=C.PId

AND CI.SID + C.SID

8) Invalid query

Explanation: This relational algebra Statement does not return anything because of the Sequence of

Projection operators. Once the sid is projected, it is the only field

in the Set. Therefore, Projecting

on Some will not return anything