END SEM DBMS V. Mani Deepport

dan omning 19BCS112

1. Using emphamel as a clustered. Indem is possible only when every employeee will have a unique name. If this is ensured, the tuples will be organized according emphame in

Using empidas a clustered index is definitely Possible considering everyone already has a unique id assigned to them, the tuples will be. organized according to empid.

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Using both emphame and empid as clustered Indexes may not be Possible but it is possible two have one Clustered Indem and one one-Clustered inden. 2 Him resign the sat beautiful

- 2) DDL is important in representing information in DBMs because it is vogical schemas.

 • DML is used to update and access
- data, ithis not important for repre-

3 True because a DBMs is typically shared among many users. transactions from these users can be interleaved to improve the execution time of user's queries. By interleaving queries, users do not have to wait for other usex's transactions to complete fully before their own transaction begins. without interleaving, if user a begins a transaction that will take 10 seconds to complete, and user B wants to begin a transaction, user B would have to wait an additional 10s for user A's transaction to complete before their database would begin Processing usen B's request.

Man Marin Ma

4) a. A user must guarantee that his or her transaction does not corrupt data or Insert nonsense in them database. For example, in a banking database, a user must guarantee that a cash withdraw transaction accurately Models the amount a person removes from his or her account. A data base application would be worthless if an Person removed 20 dallars from an ATM but the transaction set their balance b) A DBMS must gud vantee that fransactions are executed fully and independent of Other transactions. An essential Property of a DBMs is that a trans-

1 Planipeer

action should execute automatically, or as if it is the only transaction running. Also, transactions will either complete fully, or will be aborted and the database returned to it's initial state, this ensures that the database remains consistent.

byes, we can determine the key of relation with the help of instance. E.g. In a one to many relations we can consider the coloumn attribute with unique values as a Primary Key.

Winding Ann Deep

19BCS112 6) (1) * create clustered index Stydent Name inden on student (student Name Asc)

=> it will create Indem on student Name where student is table name

* Select, Email from student motor outputten and

Email 1000 Jaya @ nyz.com Jh@ayz.com aroman for for Krishna @ Parcom

V.ManiDeep 19BCS112

P(Rf, cartalog)

P(R2, Catalog)

Tr. Pid Tr. Pid= R2. Pid Mr. sid!= R2 sid(R1/2)
Using the following

	5	
SID	PID	Cost
1	l. I	\$10.00
2		\$9.00
7	3	\$34.00
2		\$11.00

RIXR2 gives

K (E)	-		1 7		
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	1	\$ 10.00	2 3	3	34
2 2		\$ 9.0	3)	10
2	1	\$9.0	2)	9
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Scanned with CamScanner

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R. Pid=R2. Pid gives us promise	100
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To SID (PID) COS	s † 1
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-RI.Pid=R2.Pid NR. Sid7=R2. Sid give us
SID PID COST SID PID COST
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1 10 13 11
9 1 1 10
2 1 9 3 1
2
5 1 1 1 1 2 1 2
Projection of allegene
Projections on PID gives us a single Part
humber-1 eliminating the duplicates.
8 Invalid query.
EX Planation
Explanation: the relational algebraistate. ment does not reational algebraistate.
rient does not return
ment does not return anything because of the sequence of Projection operator once the sid is Projection operator
sequence of Projection
once the sid is Projection operators only field in the control
Yoje ctedit ic the
only field in the set, therefore, Projectly on some will not resting
on come set, therefore Projectly
or isolar mill hot wat
anything.
on some will hot return anything.
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Scanned with Camscanner

CREATE VIEW Senior Emp(eid, name, age,

AS SELECT E. eid, E. ename, E. age, E. salan FROM Emp E WHERE E. age > 50