DBMS-EndSem

- 1	year of many
1	Using emphane as a clustered index is
W. M	possible only when every employee will have
	a unique name. It this is ensured, the
T.	tuples will be organised according emprane
	alphabetically!

Osing empid as a clustered index is definitely possible considering everyone already has a unique id assigned to them. The tuples will be organised according to empid.

Using both emphame & empid as a clustered indicen may not be possible but it is possible toohave one clustered index & one non-clustered index.

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a.

* DDL is important in representing information in DBM because it is used to describe external and Logical Schemas.

* DMI is used to access and update data.

It is not important for representing the data.

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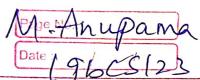
Because in General many users Can Access a database and a DBMs is typically shared Can be interleaved to improve the execution time of users Queries. By interleaving Queries, users do not have to wait for other users transactions to complete fully before their own transaction begins. Without interleaving, 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 lo seconds for user A's transaction to complete before the database would begin processing user B's request.

A user must guarantee that his or her transite does not Corrupt data or insert monsense in the 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 database Application would be worthless if a person removed 20 daylars from an AIM but the transaction Set their balance to zero.

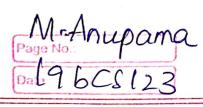
A DBMC must guarantee that transactions are executed fully and independently of other transactions. An exential property of a DBMS is that a transaction Should execute automatice or as if it is the only transaction nunning. Also, transactions will either Complete fully, or will be aborted and the database returned to its initial State. Thus ensures that the database remains consistent.

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5. Yes, we can determine the key of relation with the help of instance. Eg, In a one to many relation we can consider the Column/Attribute with unique Values as a primary key.



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6).	
	a) create clustered index IX-emphame index ON STUDENTTable (Student Name DESC)
\forall	Trace Congress raines
	"Select Email from STUDENT Table"
	-) This Query displays all Emails in descends
	order of student Name. First the table
± 1 :	gets sorted based on student Name in
	Desc order then the select query
	displays the emails in that order
b)	Student ID Student Name Email Age
	1
	1005 Krishna kinhva@rgver 22
vi ide	1030 John Null 23
	1020 John Thangz-com 22.
: -:: -: -::	
XI.	
ick N	



7.	Query in Relational Algebra:
	ů – – – – – – – – – – – – – – – – – – –
	J(R1, Catalog)
1.22-3 	Plps Cotalon)
	TIRI. pido RI. pid = R2. pid ARI. Sid! = R2. Sid (R,XR).
	SOL Query:
	Select distinct Ripid from catalog Ri, Catalog R2 where Ripid = R2. pid and
	Cotalog Ro Where Rupid = Ro. pid and
	Risid 1 = R. Sid
Es Tr	11(1514 ; 72)
	Sid Pid Cost
N 9102	SIG FIG 50
	9
	9 3 34
	1 11
	3

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1.71	·piu	12	14 /			
	1	1	()			

Sid Pid Cost Sid pid Cost
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10 2 10 9
10 10 10 10 10 10 10 10 10 10 10 10 10 1
2 2 1 1 9 2 1 1 1 1 1 1 1 1
2 1 1 1 9 9 1 2 1 9 1 1 1 9 1 1 1 1
6 2 m 1 m 9 m 3 m 1 m 1 m
2 3 34 2 3 34
3 1 11 1 10
3 1 11 2 1 9
200 m 3 1 1 1 1 1 1 2 3 1 1 1 2 1 1 1 1 1 1 1

VR1. pid - R2. pid 1 R1. Sid = R2. Sid gives us:

	Sid Pid	Cash	Cid	Ded	Cack	
	DIA TIO		310	- File	COST	4
		10			4	710
-	State of the state	10	3			
4	2	9	1		10	
	2	9	3	1 6 0		
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	3 1	11	2	4300	9	and the second
	<u> </u>					1000

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8. Invalid Query.

Explanation:

This relational Algebra Stretement doesnot 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 same will not return anything.

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A diew query on Emp Schema that could be automatically updated by updating Emp:

CREATE VIEW Snr-Employee (eid, Plame, age,

SELECT E. eid, E. ename, E. age, E-Salary FROM Emp E Where Eage > 50.