1)

The company xyz intends to store its employee data in a heap file with a distorted index on the employee data in a heap file with a distorted index on the employee data is a table with two clustured indexes. Data is stored without specifying any orders to store the row efficiently.

Thus, it is not possible to stoke data in a heap file with a clustured index in a field.

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Alternatively, it is completely possible to store data with emptol field because it eventually becomes a primary index and thus, non dustoxed indices one allocate allowed a heap file.

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2) a) DOL is important in Representing Information in DBMs because it is used to describe External and Logical schemes

b) DML is used to Modify and Manipulate data, it is not important for Representing the Data

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3) TRUE

DBMS interleave the actions of different transactions instead of executing transactions one after the other.

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Justification;

Usually DBMS is shared among many ocers. Transactions from these users can be interleaved to improve the execution time of users queries. By interleaving queries users clonot have to wait for other users transactions to complete fully before theirown transaction, begins. Without interleaving, if users a begins a transaction that will take 15 seconds to complete and users wants to begin a transaction, user 2 would have to wait an additional 15 seconds for user 1's transaction to complete before the database would begin processing userz's request. It is to increase the transaction troughput. Assume that there are five billing machines in some clothstore and all these machines are connected & to a database server. If the handly transactions in serial order i.e., one Server handly transactions in serial order of server handly transactions in serial order of serial order ord mere waite of many transactions are able to be executed simultaneously by server, then would add more billing machines and able to generate many bills

- a) A user must guarantee that his or her transaction does not corrupt data or insert nonsense in the database
 - for ex: In a Banking database, a user must guarantee that a cash withdraw transaction accurately models the amount a person removes firom his or her account. A databes application, would be worthless if a person removed 2000/- from an ATM but the transaction set their balance to zero.
 - completely and independently of other transactions.

 An evential property of DBMs, is that a transaction should execute atomically, or as if it is the only transaction running. Also transactions will either be completed or will be aborted and the database returned to its initial state. This ensures that the database remains consistant.
- Yes, we can determine the key of relation with the help of instance eg; In a one of to many relation we can consider the column/attribute with unique values as a primary by

Techen! K. Remasees K. Reharces 1980057 c) a) Greate a clustured index Ix-emprant nder ON STUDENT Table CstudentName DESC) quiros ton 1906 - swoodotoh select email from STUDENTTable" This query displays all remails in the descending order of the studentnamers first the table gets sorted bared on studentname in DESC Malatroca order then the select query displays the emails but the transaction set their boldons to zero. in that order b) student in student Maine of Finail Age of A morto inost worth Krishing shows knishna @ protect 22 1005 in Escapial profilmy of DBINNOTS that a transaction 1030 1020 21 11 1 John Wilming the xyzcom 22 wine ont transaction running. Also transactions will either be completed or will be aborted and the database

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       SELECT C-SIN
 765 :
      FROM catalog (
       WHERE EXISTS ( SELECT C. sid
       FROM Catalog G
       WHERE G. prd = ( prd AND G. sid = C.sid )
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8) Invalid Query:

Explanation:

cost sin This relational algebra statement does not retorn anything because of the sequence of projection operators. once the sid is projected, it is, the 0001 only field in the set. 1 000% Therefore, projecting on some will not return anything. DOGNA

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The query on EMP schema that could be automatically updated by EMP is 0000 CREATE VIEW AS senior EMP (eid, ename, age, salary) 0001 As select E-eid, E-ename, E-age, E-solory 0001 From Emp E WRERE Fage >50. GRIPIO - B. Pid A Risid! = Posid given Us.

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