DBMS END-SEMESTER EXAM 6/5/21 BM KALPAJEET 19BCS117 CSE 1) · storing employee tuple in a heap file, empname. · A clusticud inden clepinis the physical winder in which the tlaw records were stored in a databay elustered indining, then we must ensue that the names are unique es dustuing slows it is alphalutical orden. su operations mill be possible if o height empid as the christing widen to empid is unique and pennaeny key, all the operations are possible

possibles

reith emphasse & empfd, vit is

possible to vereate custom cluster

possible.

2) • DDL is important in defining the database in DBMS, lucause it is used to describe the schema and constraints

DDL is used four defining the attributes (column) of the datalease; and it is declaration in nature.

It uses CREATE, DPOP, A LTEP etc four definining the structure of datalease.

It also helps in data independence and managing various integrities.

o DML is used to add subvierce delete and update data; it is not important for defining the sulations on database on schina

DML can add on update the some of talele. It appets worly one on more somes, and is imperative. It uses commands like INSERT, DELETE, UPDATE

B M KALPAJEET 19805117 It helps to modify the data in stalay, as per user. 3) DBMS introleaver the actions of edippers teransactions instead of executing ion agter ofther. This is TRUE. A dalaban is midespread use and con de used dig many undividuals luvy unde une make changes, repetate the database leased ion the access they have Dence the Latalian is should among all: If the instructions con the live cuted requestically, it will exist in a long waiting time as the next were some stand their transaction, only wellen the foist reser finisher By interleaving the instructions, the execution time is imperoued and reacting time is decereased. Henry it is followed by DBMS.

1) Banking system DBMS that supports
transactions and DB operations

A Learnsaction is a set of instructions, a logical unit of means websich intuacts with the DB and modifies it. It must be governed by ACID peroperties

a) Ferom a dalaban point of veries the user is a consumer of the leankmig system and does not med the
guarante anything in particular
The user, however must elisave
that their user aredentials are
kept rape, that they don't pollow
any uneltrical ephactics like tracking
to modify the dalaban, ou
cancel strein stransaction by any
welter means.

De DBMS must guranter the

Alomicity: all-on-nom.

littues the theansactionis

complete and committed

tru teransaction is aborted.

BM KALPATEET 19865117 if it is unique. Only XYZ will know welvich is the frumary by cas XYZ have designed In easy sniple realized sattenbuts in DBMS, it can the Spound. But in getreral, it connect the determined.

	BMKA	LPAJEET	WATER IN B		
	19BCS	117	THE DATE		
Tally Tally					
Student Table					
6) guin	[5 10	S Name)	Email Age		
4	1000	Jaya	Jay 9 @ 247. 4 20		
	1005	Krishma	Krishadan 22		
	1030		Nº11 23		
	1020	John	h@nyrem 22		
	1.	-			
			-1 4	,	
a) we need ito eluate a thustined more					
a) que need ito errate a clustered moder con student Nome and efetch the email					
Column.					
The contract of the property of the contract o					
how identified CREATE CLUSTERED INDEX Sto.					
hor clustered CREATE CLUSTERED INDEX Sto.					
Street					
COENTE CLUCTEDED LICETY FOCH					
CREATE CLUSTERED INDEX test					
ON Student Table (Student Name ASC)					
HILL MANNEY TO	De la Part	bi-bigu	Joseph Steller		
QUERY: SELECT Email					
	FROM Student Table				
The property of the second of					
(6) ile WHERE S.Age>=21 is added.					
6) ilg WHERE S. Age > = 21 is ladded.					
· ·					
OUTPUT WE WANTED ON 1919					
Balleton, h	dies was	Della said			
(h	ident ID	StudentNa	me Email	Agr	
770		1111111111	LEV LEUXICE		
	1 -	1/ 1/1	Krishna@ pag~	22	
	1005	Krishn			
	020	20-1-1	Jhenyz-con	2-3	
	1030	John	Noll	1 - 3	

John

1030

Noll

19 BCS117 7) Suppliers (sid: int, sname: str, address: str) Parts (pid: int, prame: str; color:sti Catalog (sid: int, pid: int, cost: real) · Relational algebria une mud pid of Parts from 2 ditt supplier pid is common to catalog and sid is emmon to frants.
suppliers and catalog ula need to link suppliers and parts. f(R, (catalog) P(P2 of catalog)

BMKNOTHOUS

The pid (RI. pid = R2. pid) A The pid (R1. pid = R2. pid) 1 (R1. sid = R2. sia) (R1XR2) · SQL: Clopid SELECT CI SELECT CZ. sid FROM Catalog WHERE EXISTS CI. pid SELECT of C, Catalog FROM (SELECT C2. sid EXISTS WHERE FROM Catalog C2 Where $C2 \cdot pid = C1 \cdot pid$ AND $C2 \cdot sid \neq C1 \cdot sid$ 98) TI sname (Tisid (Toolor = 'red' Parts). (Cost 6100 Catalog) Suppliers))

BW KULLINGE 1200211

B M KALPAJEET 19BCS117 the need to project the Sname column perojections rob sid the frants race dred in color joined with Cost ref catalog is 2100 joined went. suppliers On evaluating the relational algebra it will give the no supplier names of those suppliers meno supply a leed coloned part and it costs less than 100 euples in perice.

B M KALPAJEET 19BCS117 3) Emp (eid:int, ename: string, age: int, Salary: real) the need to write a recen query on Emp such that it could be automa treating Emp. Dere, the new your must buyld GREATE VIEW CREATE OF PEPLACE VIEW [Emp-test] AS SELECT *
FROM Emp. the vein can be updated uning Column-name UPDATE new-value. ley using. CPEATE OR REPLACE and UPDATE-SET Are views are updated