19605082 End Term Exam 06/05/202,
PARAMESHWAR CS310 - DBMS

->. A DBMS is Typically shorted among. mony usurs. Townsaction town There way can be interleaved to improve the caecution time of users do not have to wait to 91 ofner user's transcultions to complete tury betone Their own Toronsaction regains. without interleaving it user a begains a tononsaction to complete that will take 10 seconds to complete, and used B wonts to begain a rensaction - user B would have to wait on additional 10 secondy for user A's toronsaction to complete before The database would begin processing user B's nearest.

\$ 9.00 2 \$ 34.00 3 RIXP2 gives us cost sid pi0! \$10.00 \$10.00 \$ 10.00 \$ 10.00 \$ 9.00 \$ 9.00 21 1 \$ 9.00 \$ 34-00 \$ 9.00 \$ 11.00 \$ 9.00

PiD

SiD

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2	3	\$ 34.00	2		\$9.00
2	3	\$ 31.00	2	3	\$34.00
2	3	\$ 34.00	3	1	\$ 11,00
3	HA.	\$ 11.00	1		\$ 10.00
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		+20)	SiD	Pin	cos1.
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The state of the state of	3	\$ 11.00		The state of	\$ 10.00.
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Op. Pid = P2. Pid A P1. Sid = P2. Sid give us Sio Pio cost sio Pio cost \$10.00 2 1 \$9.00 \$ 10.00 3 1 \$ 11.00 2 \$9.00 1 1 \$10.00 £ 9.00 3 1 \$ 11.00 3 1 \$11.00 1 1 \$ 10.00 00 2 1 \$ 9.00 3 11.00

H

a) A user must guarantee That his or ner + gransaction does not coggrupt data or insert nonsense in database ton example. in a bonking databate a user must gwantee That a cash withdraw + 91001 Caltion, actually models The amount person siemoves from his on her account A database appii cation would be woorthiess. if a person siemoved 20 dollars person ATM but The + gransaction Set Theigh balance to Zeolo!

b) A DBMI must guarantee That teronsactions are executed fully and independently of the other transaction. An essential Property of a DBMs is That a tolonsaction should incente. automaticaly. Of as it it is The only Transcellon sunning. Allo Transcello -n will extrem comprete fully on will be abouted and The database refrorenced to it's intial state. This ensures Theit. The database nemains consistent.

> The tollowing wew on Emp can be updating updated automatically by updating Emp!

CREATE VIEW Senior EMP (cid name,

AS SELECT E. eid, E. ename, F. age.

E. salogy

From EMP E

WHERE E. age 750.

\* The dota defination language is impositont in Guepsiesenting intogimati -on because it is used to descaribe caternal and logical schemas. The date manipulation language is used to latest and update data! it is not impositant to 91 suppresenting The data (of course. The date monipulation language must be amore of how data is suppresented, and suffer This in The constant That it supposits). using emp name es a dusterd 1> -7. index w is boriging outh much many. employe will have a unique name. it this is ensured , The tuples will be organized auording emp name apprabationely. using empid as a clusted index is definctly possible considering sported .

- et everyone abready has a unique id assigned to them the tufles with be organized according to empid.

eusing both emp nome et empsid as a chusted clustered included may not be possible but it is possible. be possible but it is possible indea and two name one custered indea and one non-observed custance index.

> yes, we can determine the key.

of sulation with the help of
instance eg. In a one to many
relation we can consider the column)
relation we can consider the column)
attendate with unique value of a
primary bey