Today's Agenda :-

Commit & Rollback

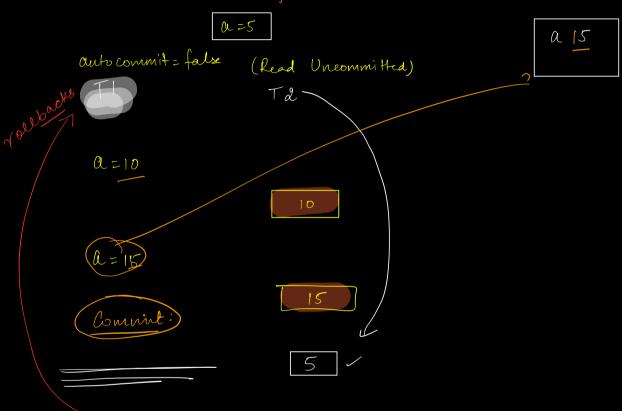
Transaction Isolation Levels Read Committed

Repeatable Read

Secializable

## Transaction Psolation Levels:-

Read Uncommitted :- Allows to gread uncommitted data
from other transaction.



Dirty Read :- Reading some data that is not confirmed yet:

## Read Committed: - Your Fransaction will only read latest committed data:

Someone

Read Uncommitted

Lead

Lead

Locks that

Your far any

Write

id	Name	P &P	email_Sent
	A B C	60/ 80 81 <del>70</del> / 45/	false  false  false  false

Send an email to all St whose psp < 80 R up date email sent to true for them.

- 2) Send email to all these students (work) 5 min
- 3) Update Students

  Set email\_Sent = tonne

  Where P&P × 80 X

## The problem is known as Non Repetable Read different

which will be solved by

## Repeatable lead :-

Within a transaction if i read the same 910w again, it must have some value.

Only quaranteed for row that you have read

Read Uncommitted :- Disty Read

Read Committed :- Non Repeatable Read

Repeatable Read : - Phantom Read

Default for MySQ

Serializable /

actual DB

RR

for first teine,
whatever nows you read,
creater a snapshot for them
if continues to use
the snapshot for that
Aromachon.

Phantom Read - A sow magically comes that you had not seen before.

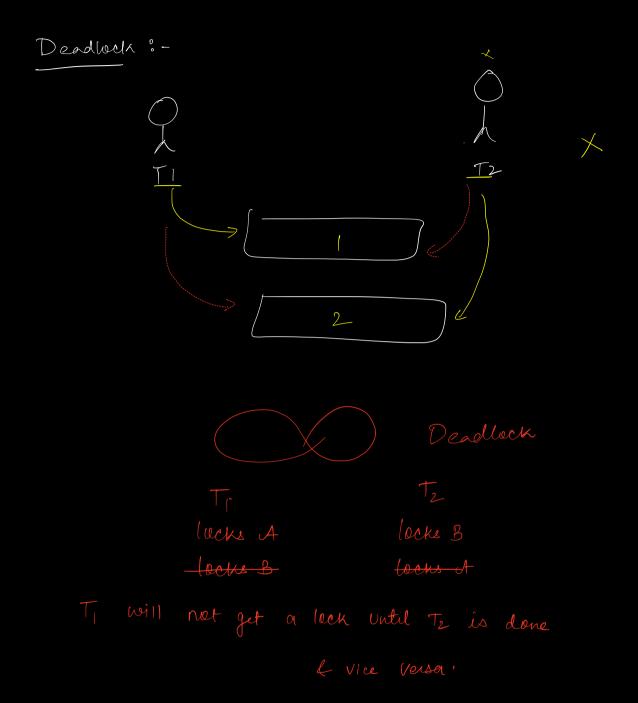
Phantom = Ghost = Sudden occurence

Serializable: - (one after another)

Les Avoid Concurrency

Complete isolation

6 min



Sal detects deadlock, it automatically rollsback one of the transactions.

Overall: - Read Uncommitted

Disty Read

Read Committed

Non Repeated Read

Repeatable Read

Schema Design 2 classes.