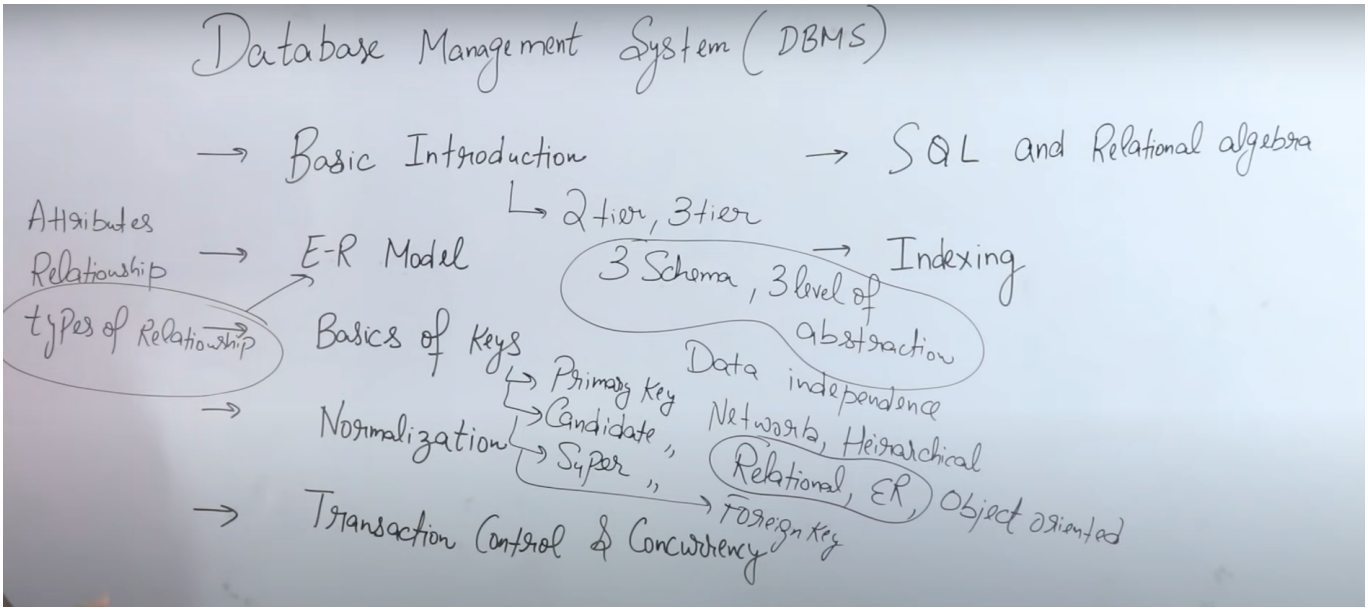
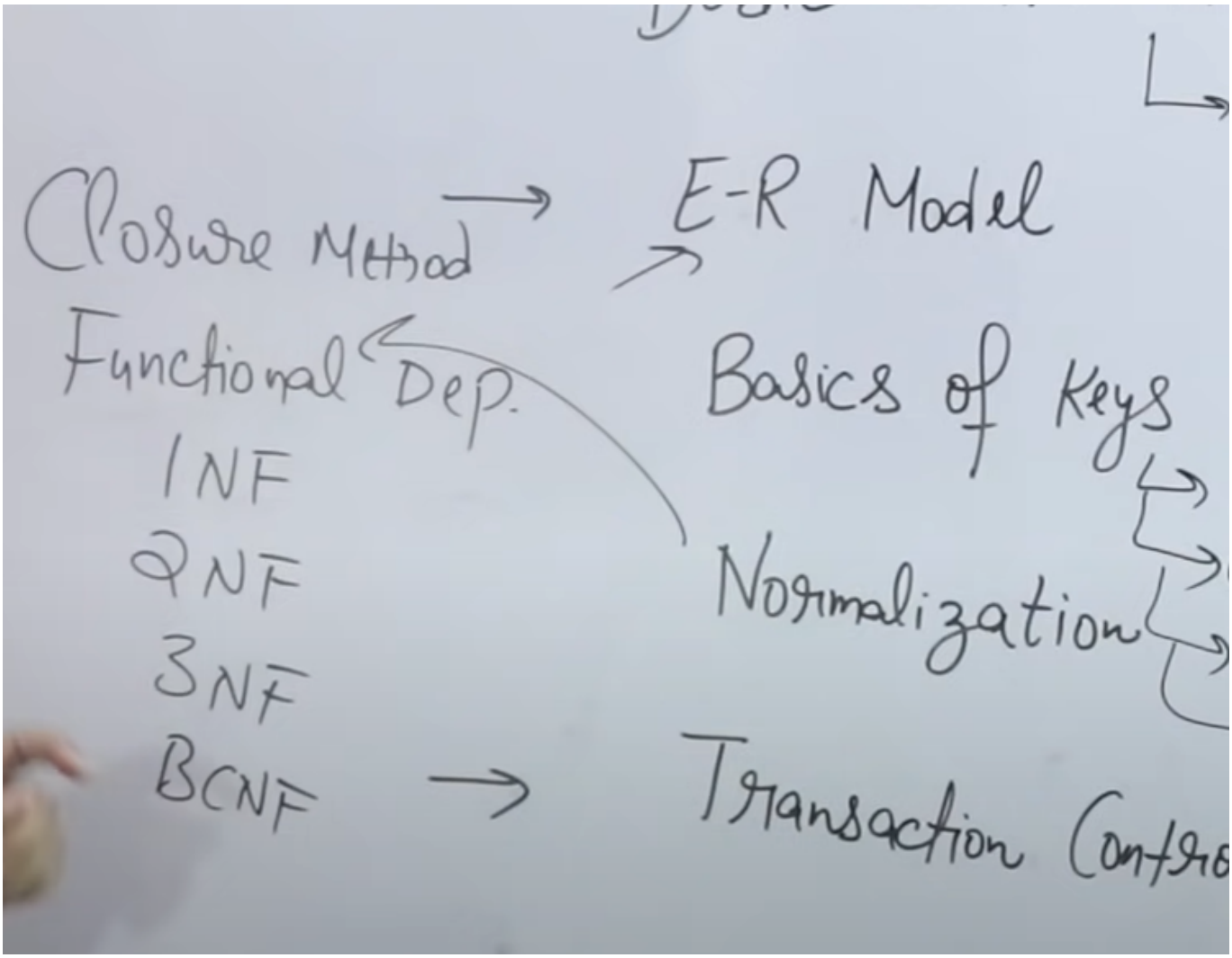
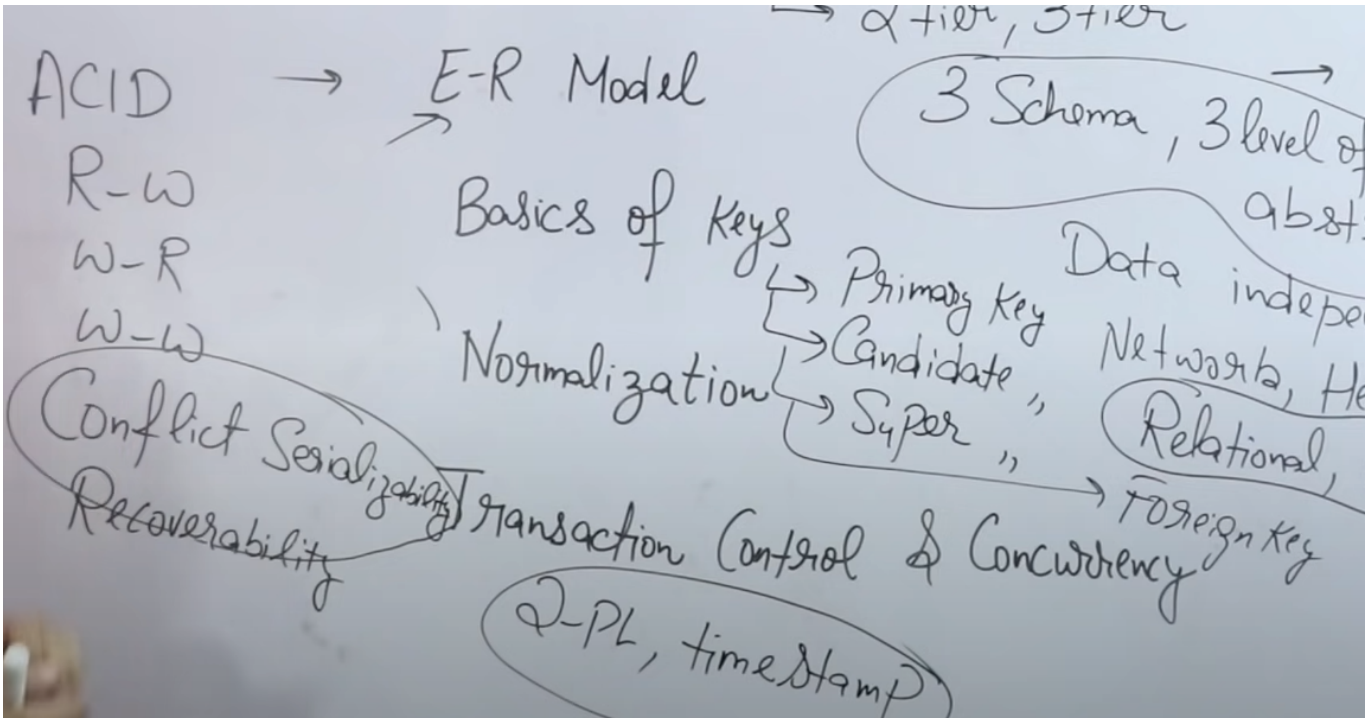
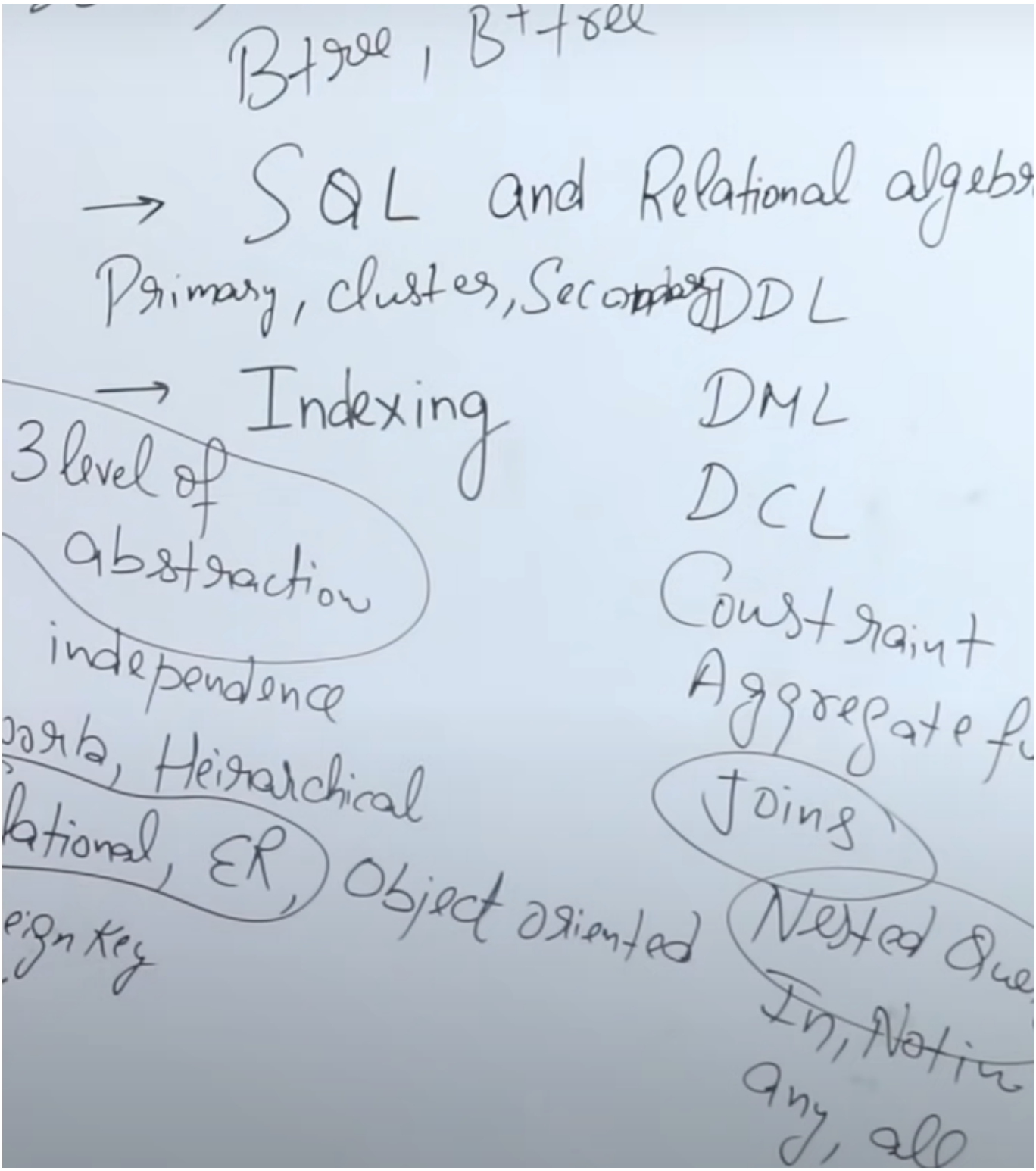
DBMS

Syllabus

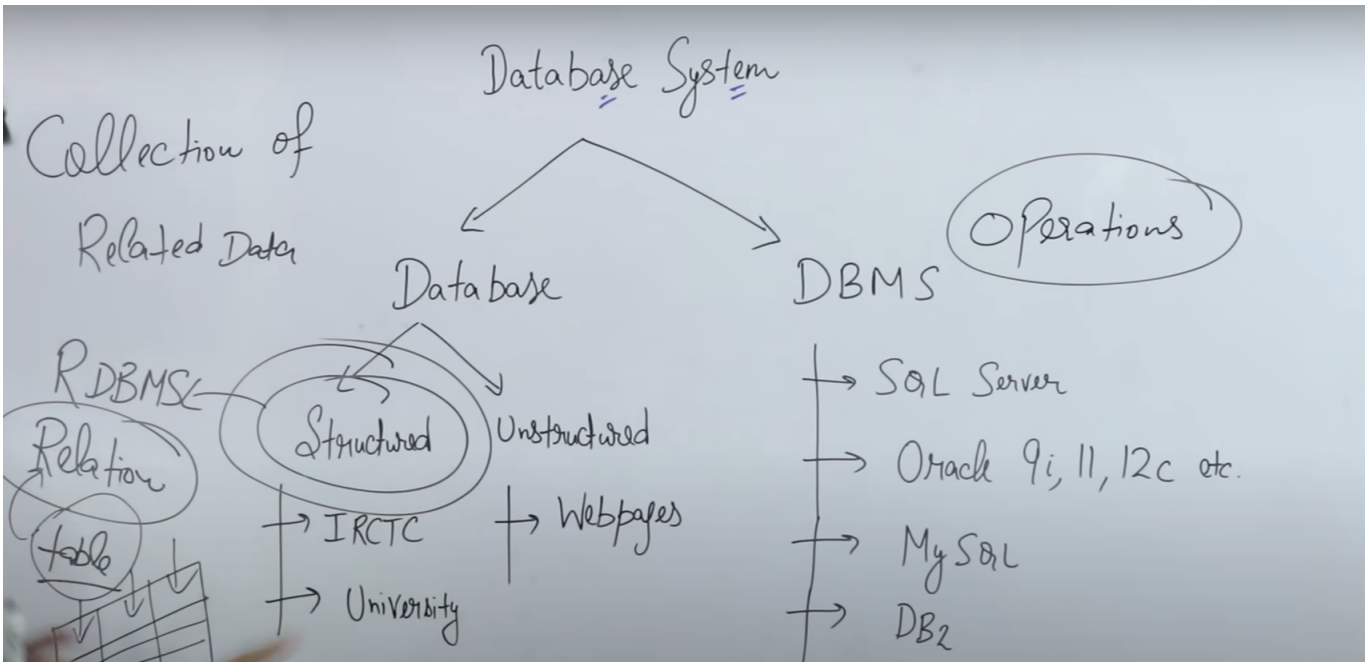





ACID
E-R Model
3 Schema, 3 level of
R-W
W-R
W-W
Basics of Keys
Primary Key
Candidate "
Super "
Foreign Key
Data indepe
Networks, He
Relational,
Normalization
Conflict Serializab
Recoverability
Transaction Control & Concurrency
2-PL, timeStamp

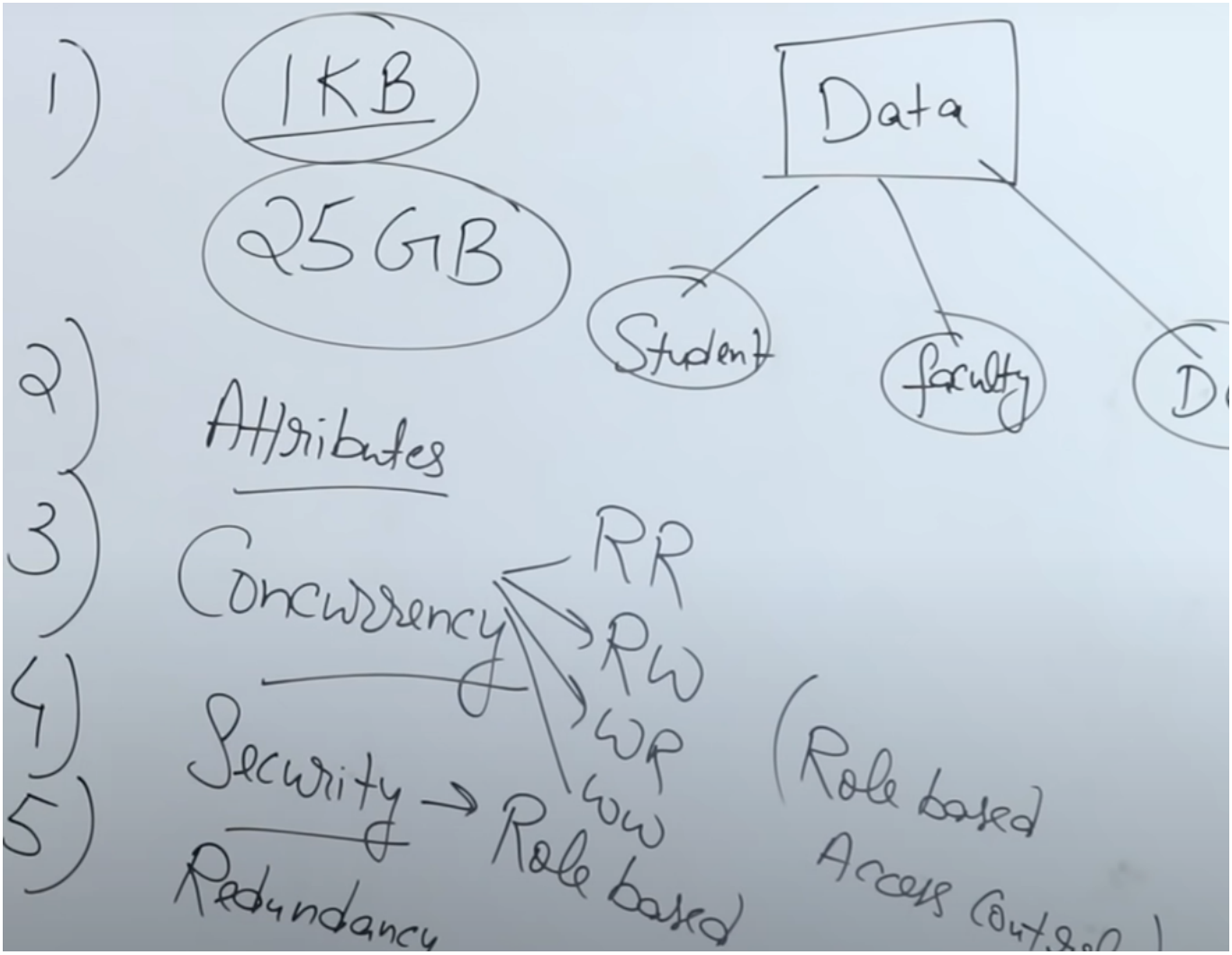

B tree, B+ tree
→ SQL and Relational algebra
Primary, cluster, Secondary
→ Indexing
DDL
DML
DCL
Constraint
Aggregate fu
3 level of abstraction
independence
Joins
Nested Que
In, Notin
any, all
Hierarchical
Object oriented
ER,
foreign key

DBMS

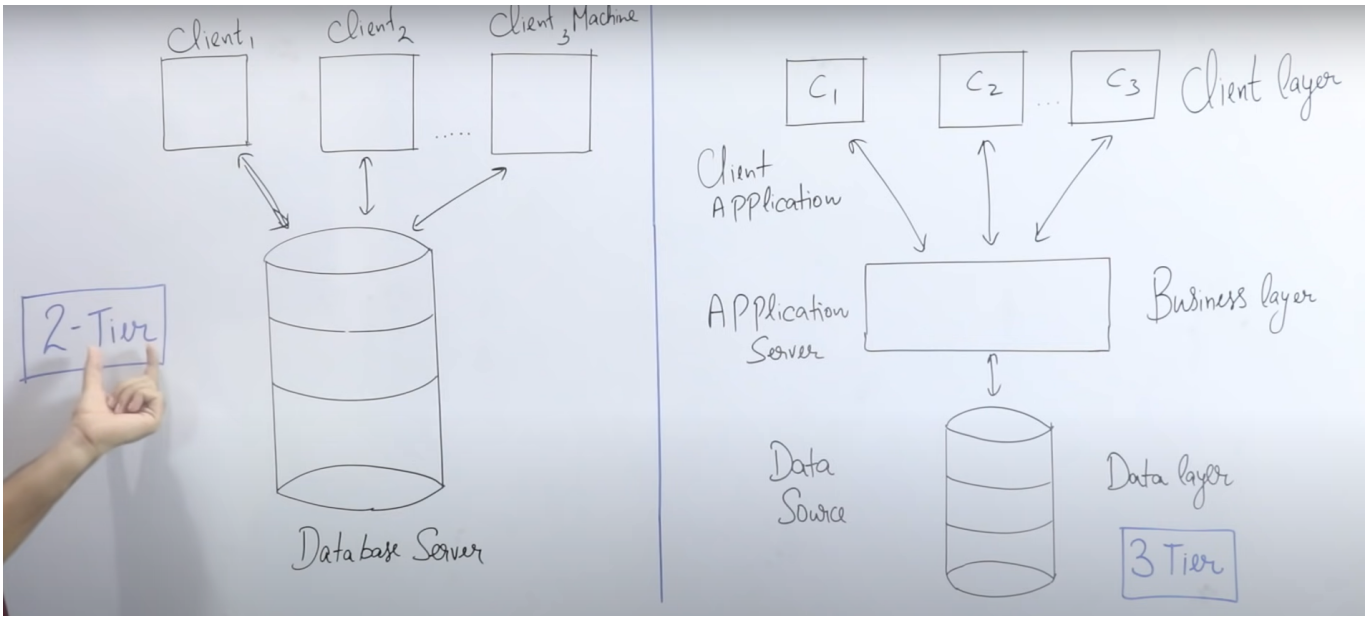


File System v/s DBMS

Why DBMS?

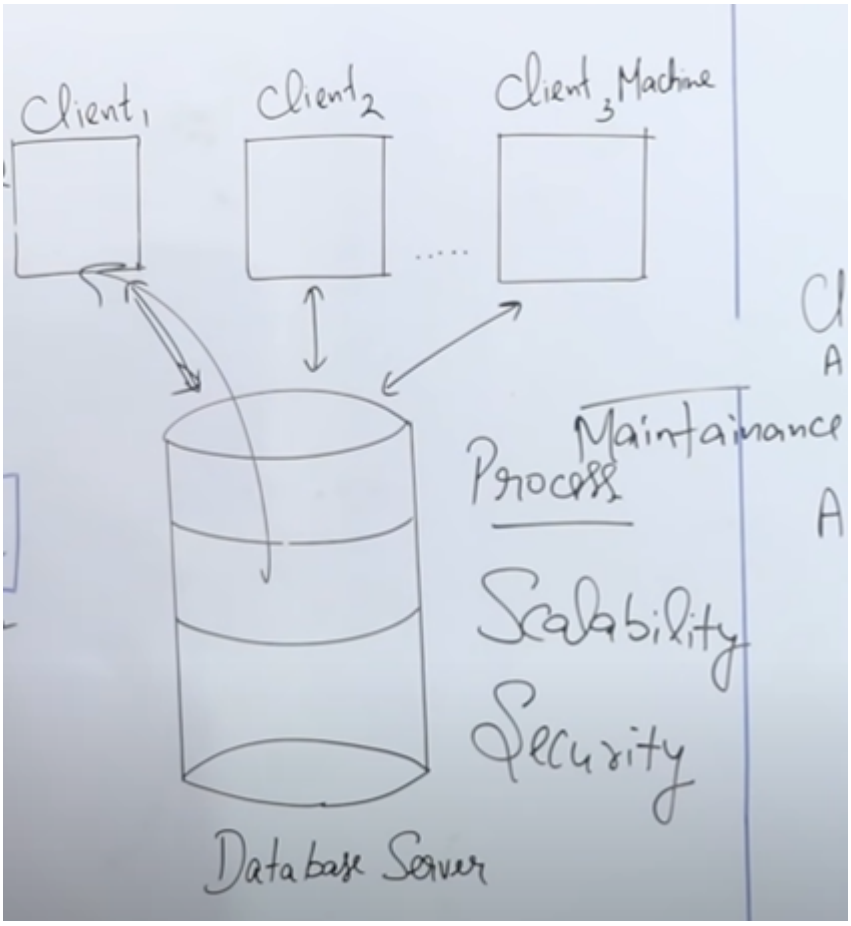


2-Tier & 3-Tier Architecture



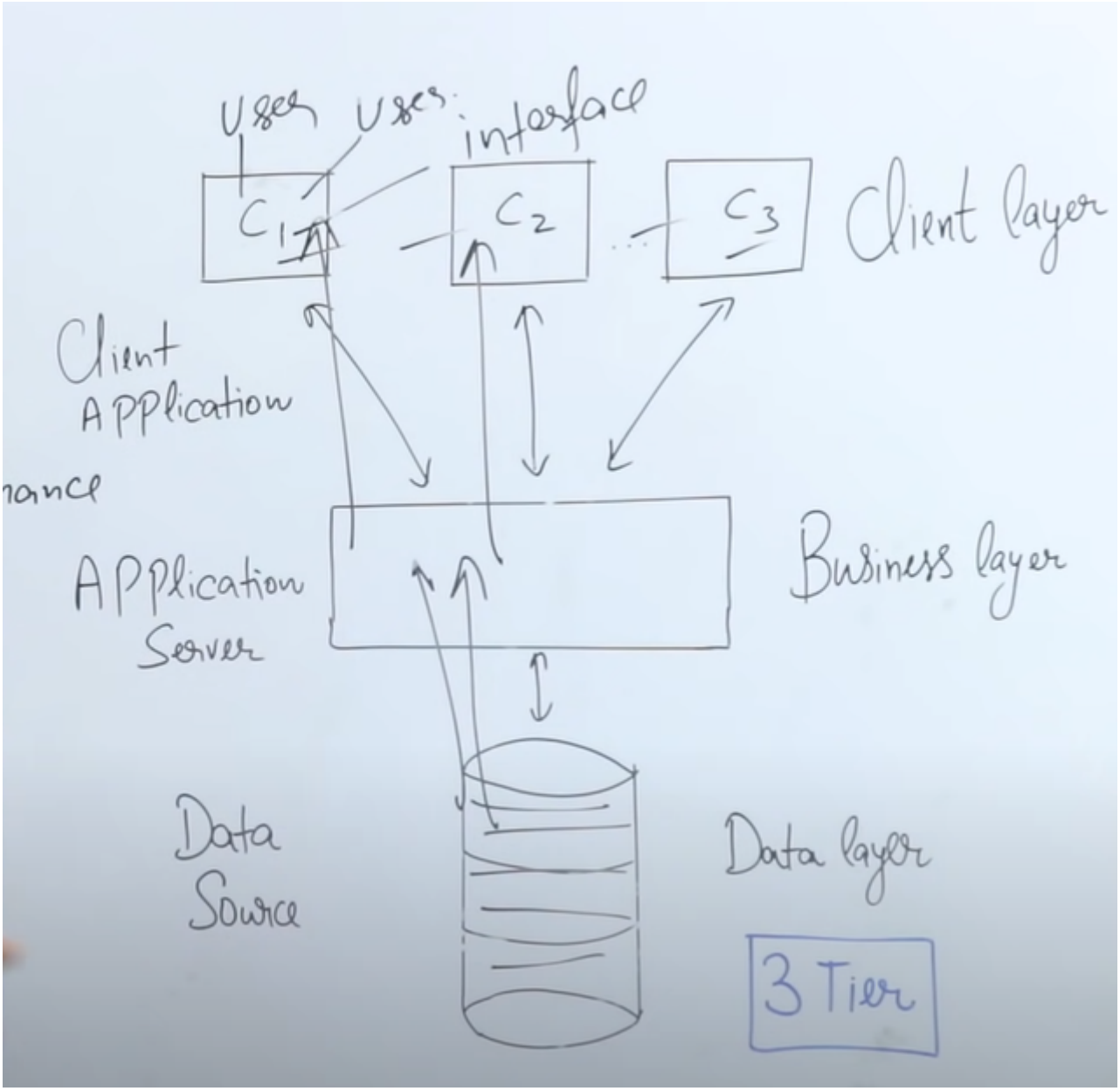
2 - Tier

Adv - Maintainence Disadv - Scalability, Security

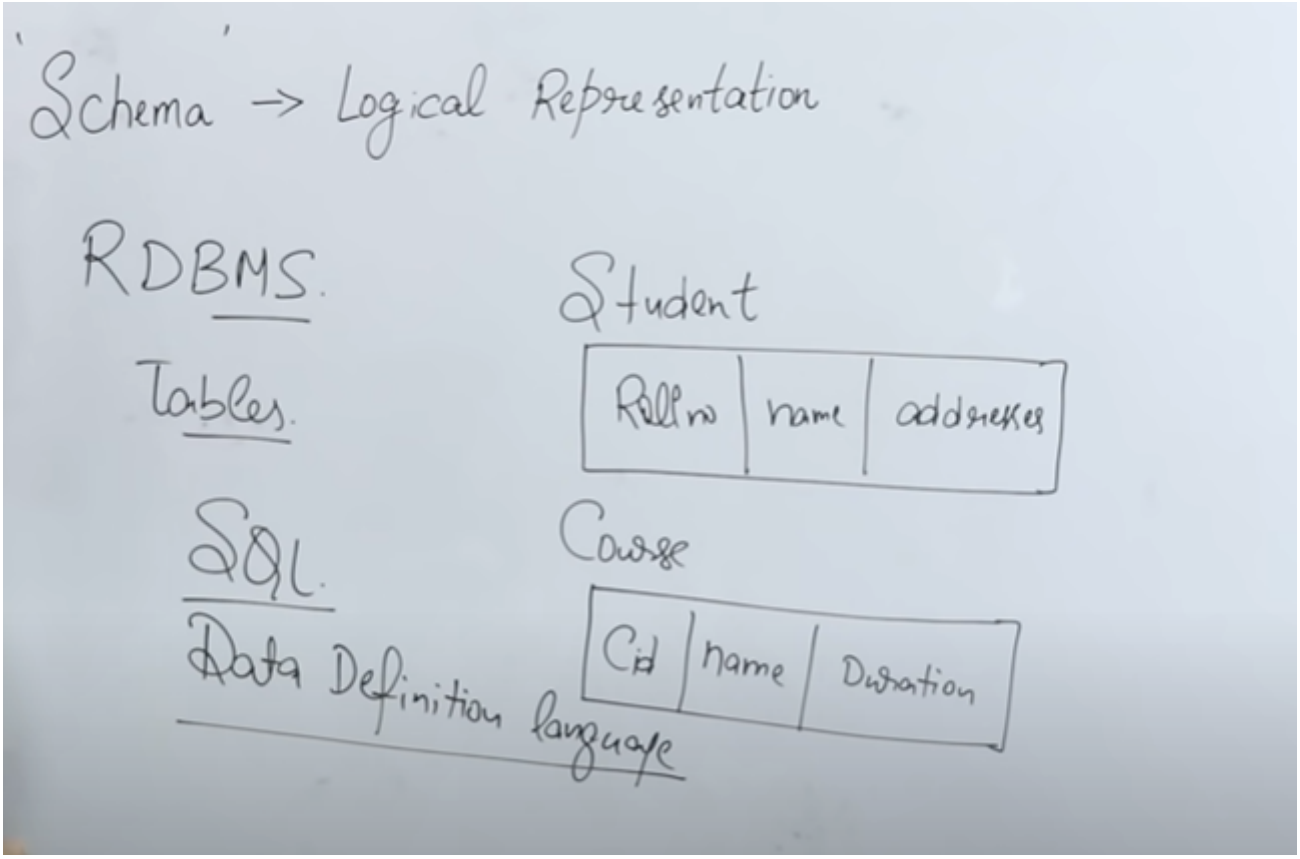


3 - Tier

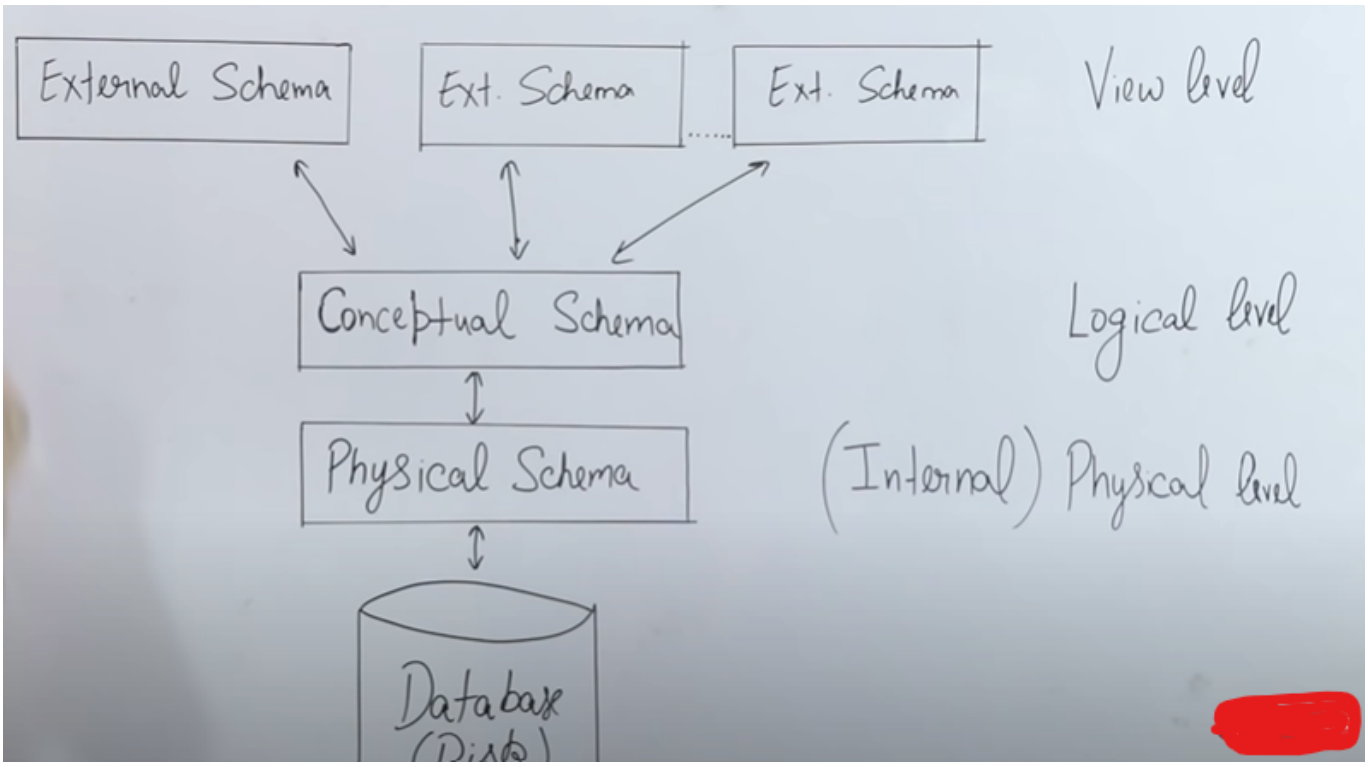
Adv - Scalability, Security Disadv - Maintainence

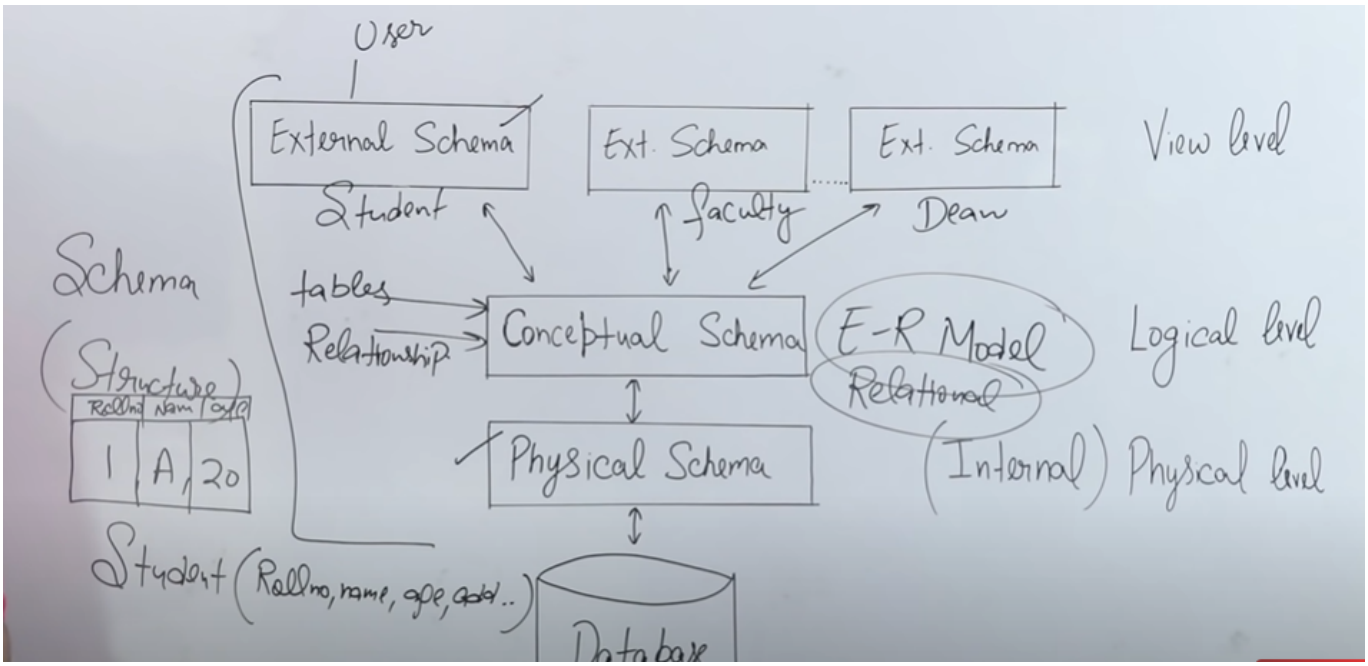


Schema

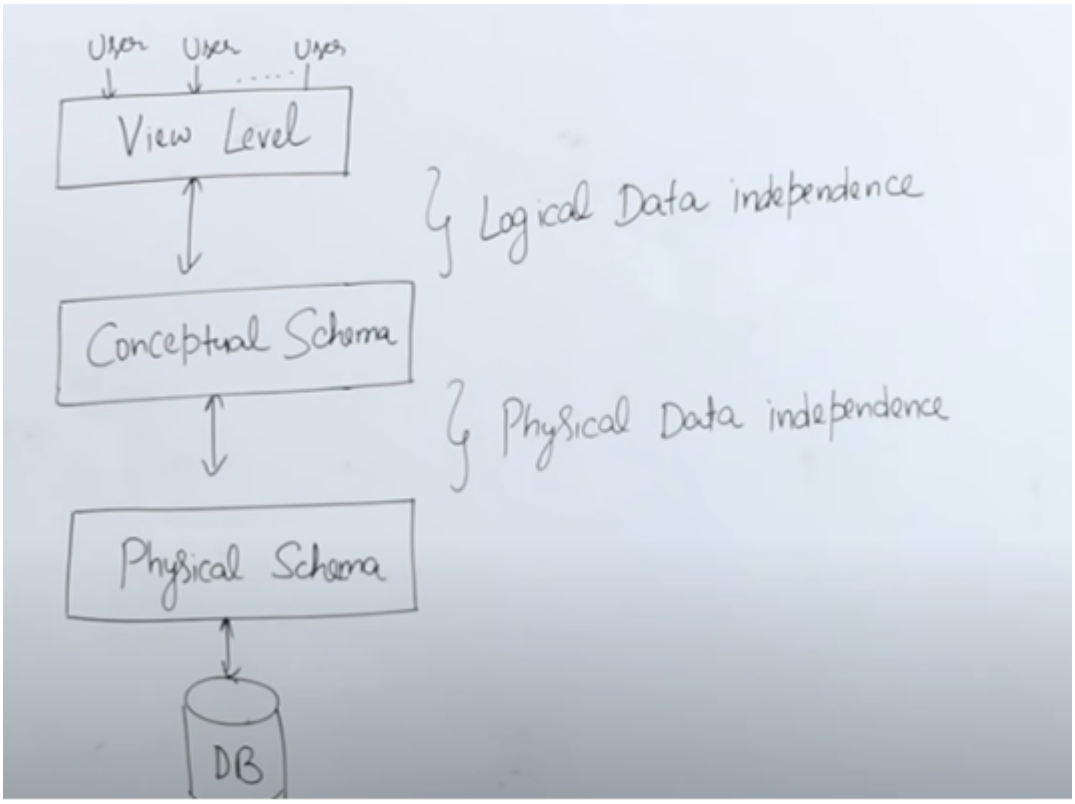


3 Schema Architecture





Data Independence



Logical and Physical Data Independence