

(2)

- closure method
 - used to find candidate keys
 - -> Functional dependencies
 - -> INF, 2NF, 3NF, BCNF
- -> Transaction, Control and Concurrency
 - LACID Properties
 - -> Read Write problem
 - -> write- Read problem
 - -> Write- Write problem
 - -> Conflict serializability.
 - -> Recoverability
 - → 2 phase Locking
 - -> timestamp locking protocol.) ny.
 - -> SQL and Relationship Algebra
 - PPL, DML, DCL commands
 - -> constraints
 - Aggregate Functions
 - Joins
 - -> Nested gury

→ Indexing

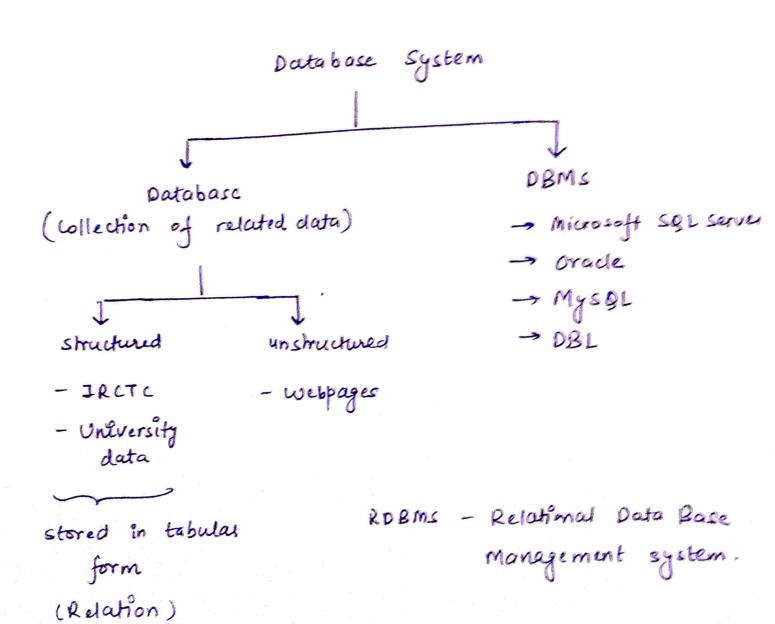
→ Primary indexing

→ Cluster indexing

→ Secondary indexing

→ B tree, B+ tree

Introduction to DBMs



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File System V/s DBMs

- File system is good for individual users but DBMs is required for client-server architecture.
- User does not need all data and using DBMs, he can search.
- Attributes are not required to search data in DBMS
 - Concurrency Multiple people accessing data at same time. DBMs has protocols for this
 - concurrency is a problem for file system.
 - Security (Role based security)

ex. students, faculty, don.

- Role based access control. &
- Redundancy Redundancy is controlled in DBMs.

