from the user.

View Level.

Logical Dota Independence

Conuptual information related to table schemas, relations bet. different tables eth.

Physical schema physical pota Independence toution or dota files are hidden from the user.

- riens level. This is logical data independence.
- -> changes in physical echema does not affect conceptual schema. This is physical data bidependence. For ex. hard disk change, Data Structure change in actual detabase does not affect conceptual schema.

Thus, data Endependence makes it easy to Encorporate changes without affecting the user.

- # Lec 8 CANDIDATE KEY, PRIMARY KEY
 - what is key? .- altribute
 - → use of key? → to uniquely identify a tuple of information.
 - -> key can be any number that uniquely identifies For ex. for a student database, key can be.
 - (i) Aadha Caid rumber
 - (ii) Roll Numbu
 - (iii) Phone Number.
 - (iv) License Number.
 - (v) email.
 - -> Collection of all possible keys is called

CANDIDATE = { Aadhay no', Roll no', Phone number, KEY L'cenu no', email >

- Most appropriate by med is called PRIMARY KEY.
- -> Rest of the keys from CANDIDATE KEY are called ALTERNATIVE KEY.

Lec-9 PRIMARY KEY = { Unique + Not NOLL }

Candidate keys - unique

It is not necessary that all felds in CANDIDATE KEY will be NOT NULL. For, ex., it is possible that a student has not given phone number.

Lec 10 Foreign key

-> It is an attribute or set of altributes that references to Primary key of same table or another table (relation).

→ maintains referential integrity

Student

PK

Roll	Name	city
1	4	Delhi
2	В	Mum
3	A	Jaip
4	C .	1 ; 1

Referenced Base table table.

Referencing table

FK.