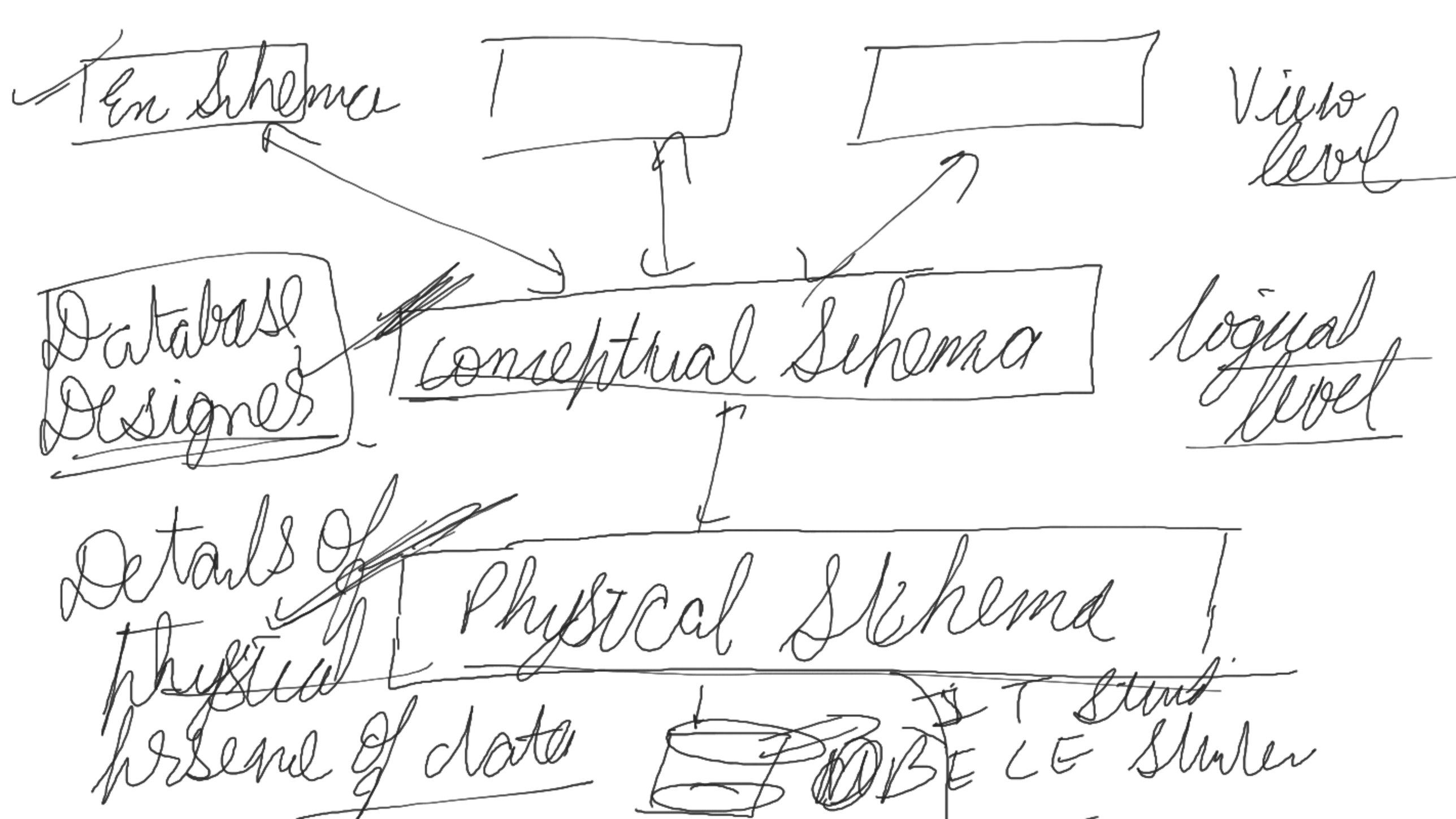
Schema - logical representation

3-level Schema

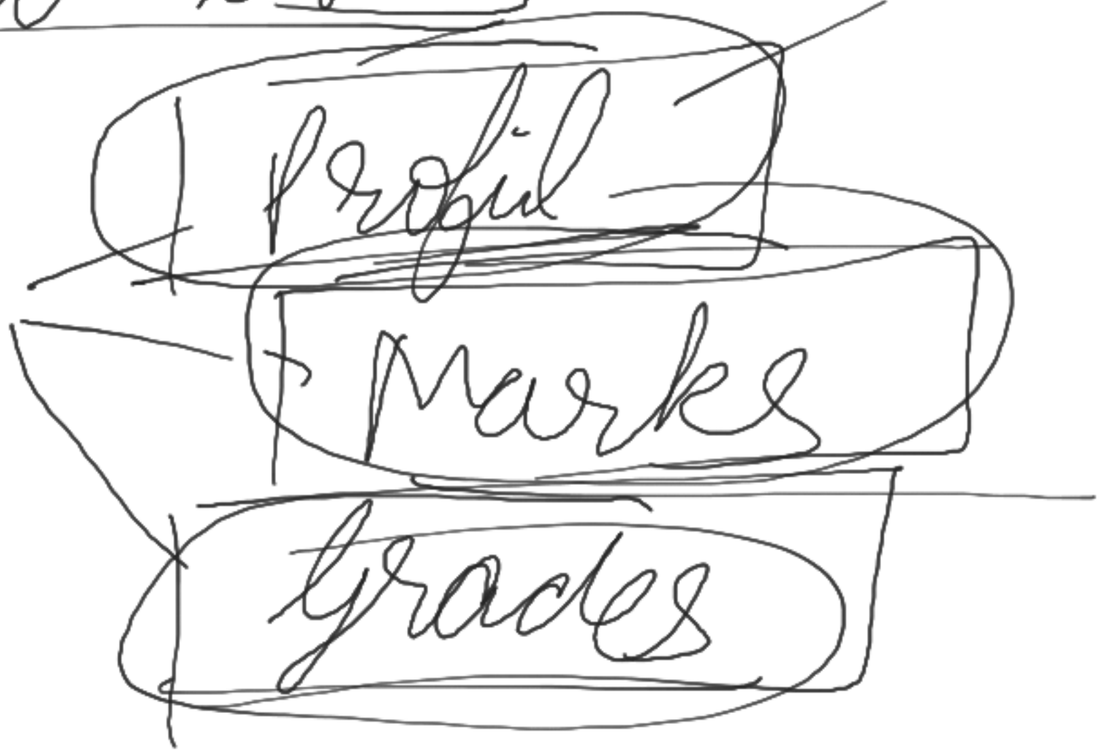
Tier-3 Architecture

} are diff

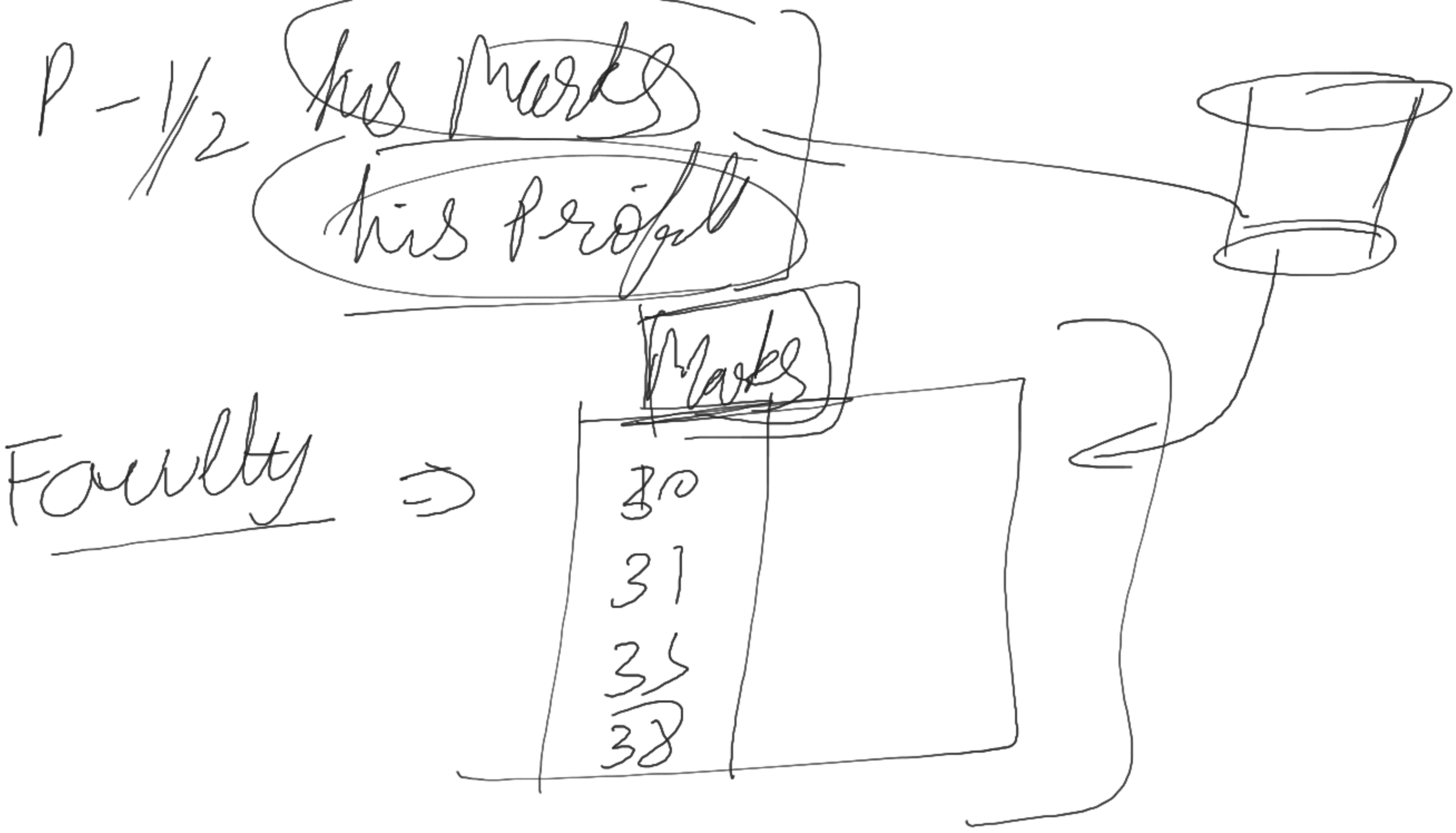

Ten Schema
View level
Database Designer
Conceptual Schema
logical level
Details of physical
Physical Schema
persons of data

Ex Schema / View level

College Portal



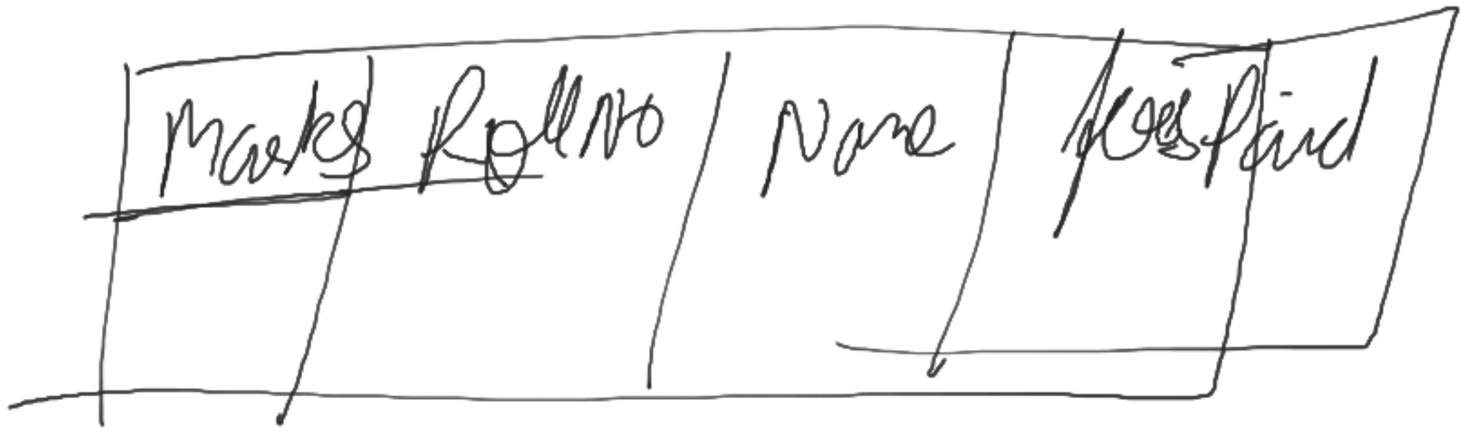
P - 1/2



Conceptual Schema / logical level

blueprint

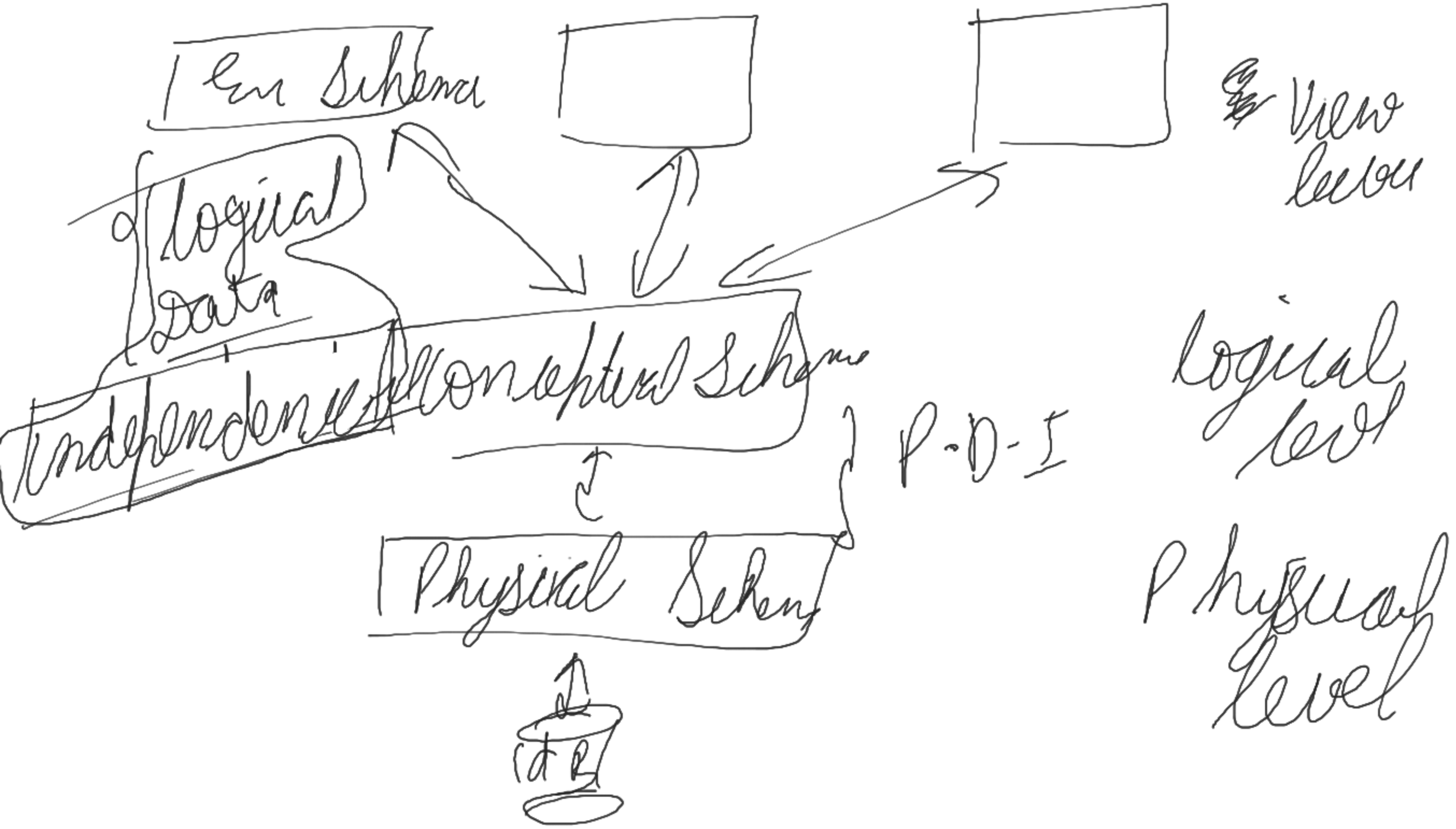
Blueprint of the DB



Marks
Name
Roll No
fees Paid

Data is in form tables

representing


Ex Schema
Logical Data
Independence
Conceptual Schema
Physical Schema
P-D-I
View level
Logical level
Physical level

P.D.I ⇒ Physical Data Independence

Any change in physical level will effect the conceptual schema

Primary Key

Key => Uniquely identify

Aadhar
- S1
- S2

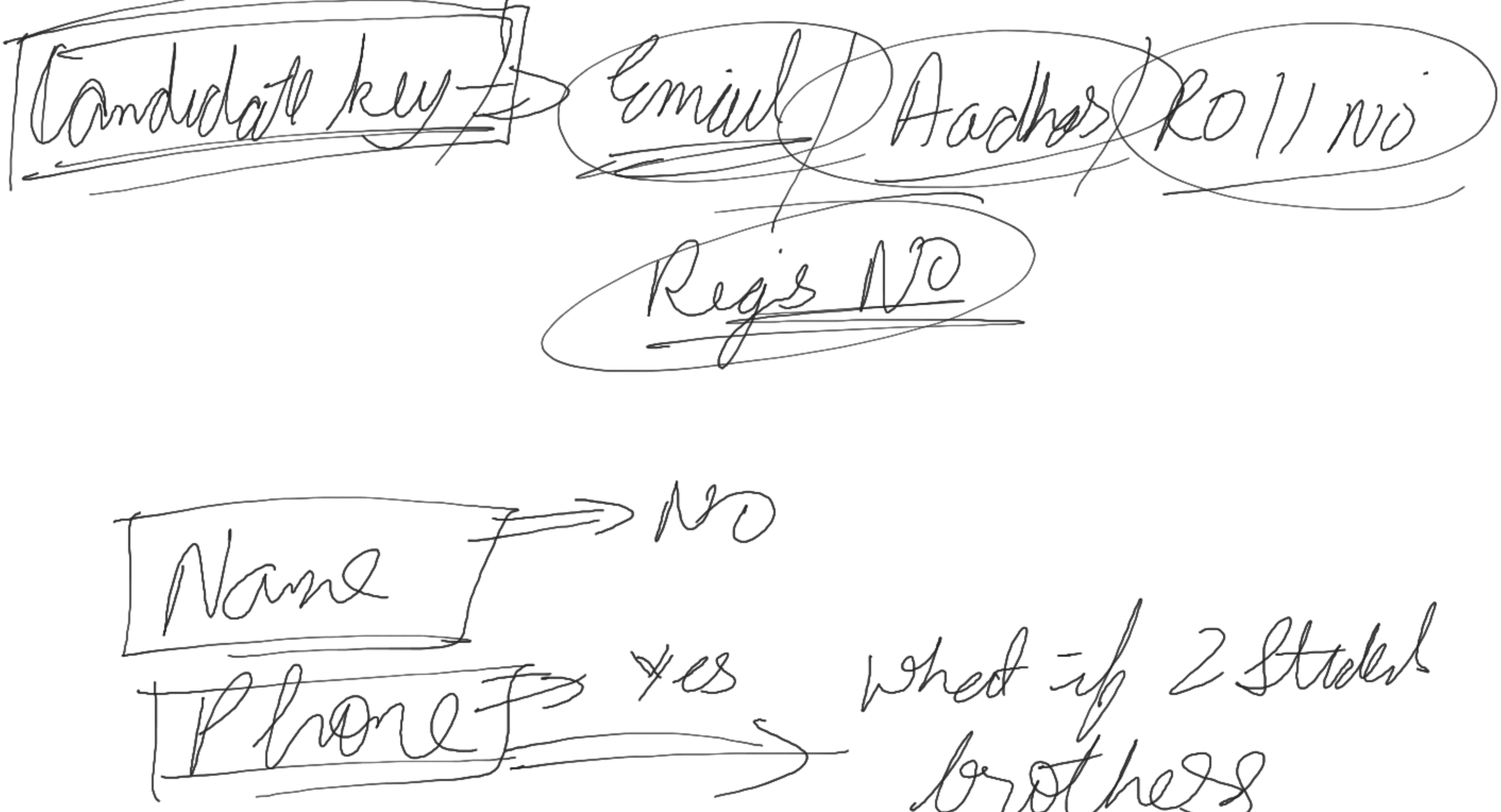
Roll No
- S1
- S2

Regis Num
- S1
- S2

Licence / PAN / Phone NO

Sets of unique char / keys / Attribute

is known Candidate key


Candidate key
Email
Aadhar
Roll no
Regis no
Name
No
Phone
Yes
what if 2 Student
brothers

Primary key => Unique + NN

value should be ~~stored~~

NULL

Primary key helps to identify diff students / tuples

Aadhar

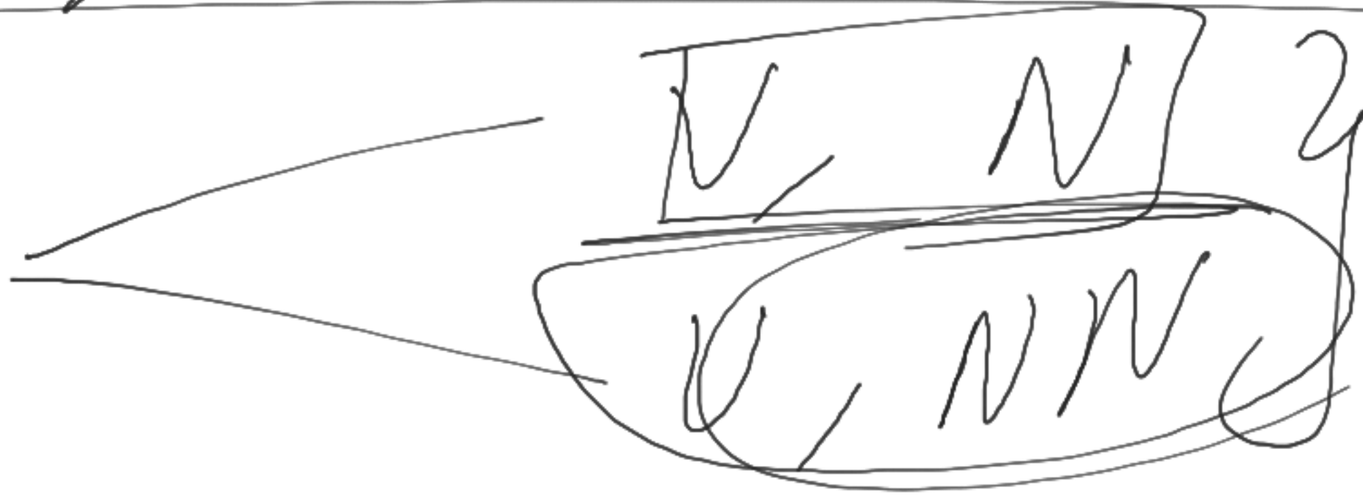
Reg no

Roll No

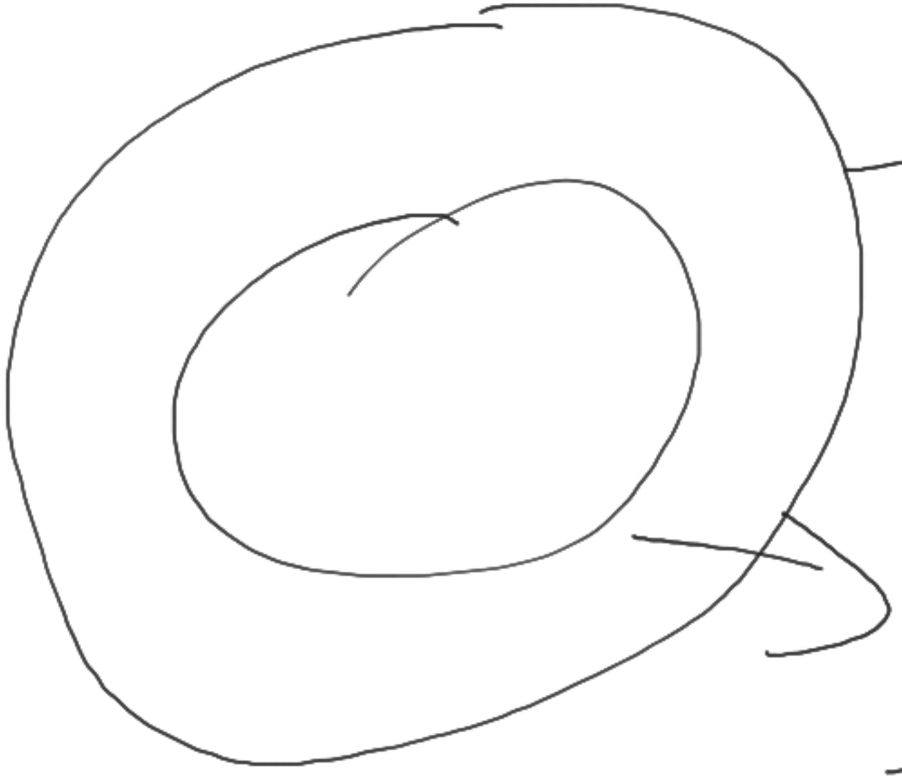
PAN

A Primary key is a candidate key

but the vice versa is not true



candidate key



Candidate Key

Primary key

Foreign Key

- It is an attribute or set of attributes that references to primary key of some/diff table.

T
ECE
EEE
civil
CSE

name
Sex
Regis No.
Phone
50
Library
PK
Regis No
1
Book
Harry Pott
FK