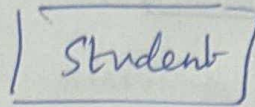
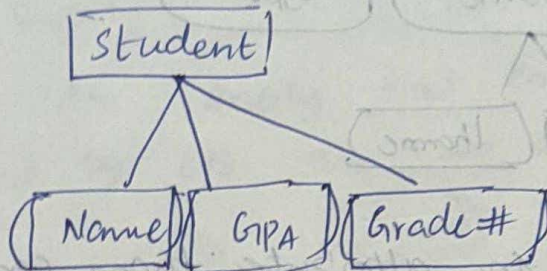


ER diagram :

Entity - An object we want to model and store information about

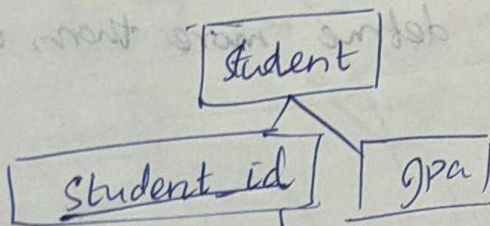


Attributes :- specific pieces of information about an entity



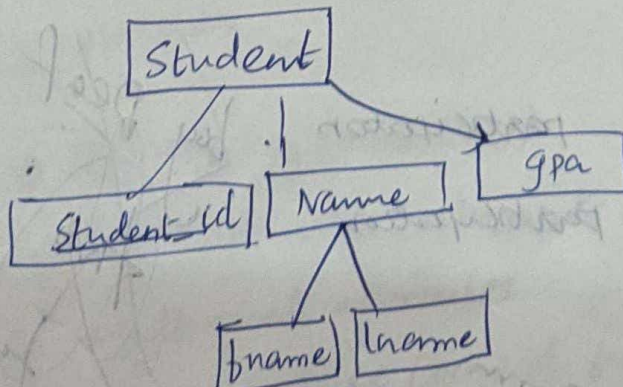
(Identifier)

Primary key: An attribute(s) that uniquely identify an entry in the database table.



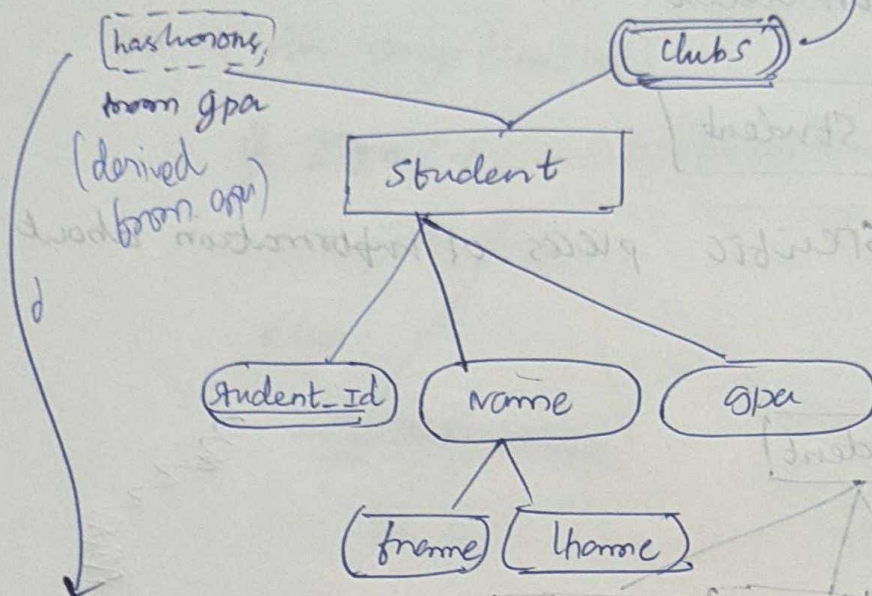
primary key should be underlined

Composite Attributes (sub-attributes).



An attribute that can be broken up into sub attributes

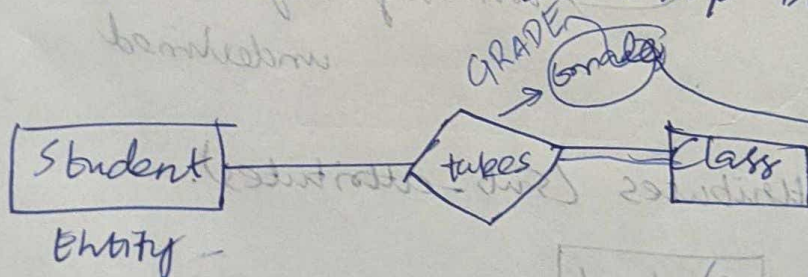
Multivalued attribute : An attribute that can have more than one value.



Derived attribute : An attribute that can be derived from the other attributes.

Multiple class : you can define more than one entity in diagram.

Relationships : defines a relationship between two entities.



Partial participation (single line)
 Total participation (double line)

Room 108

for

by deaf
 two
 talk

relationship attribute :

→ An attribute about the relationship.

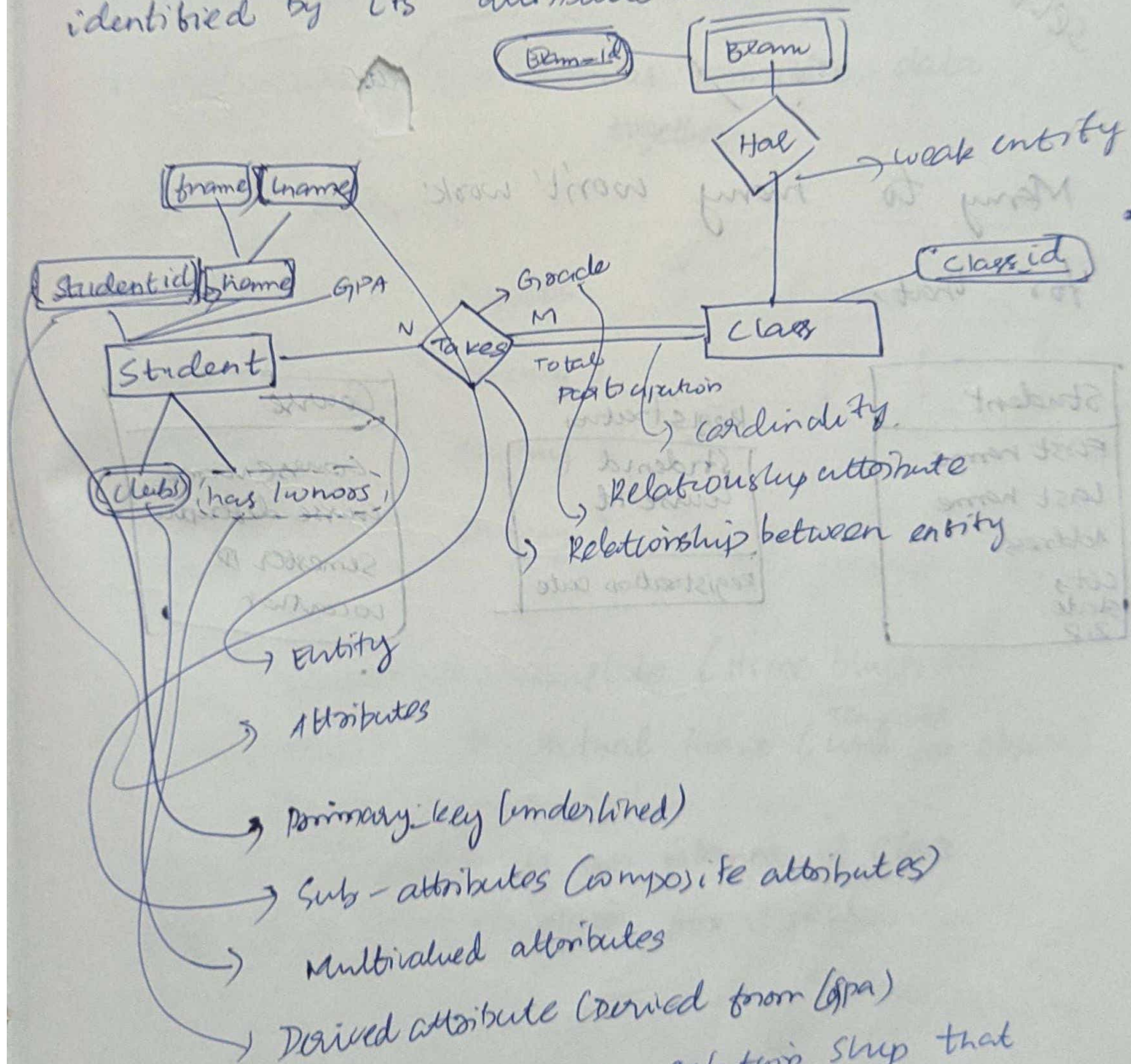
Relationship cardinality :

the number of instances of an entity from a relation that can be associated with the relation.

1:1
1:N
N:M

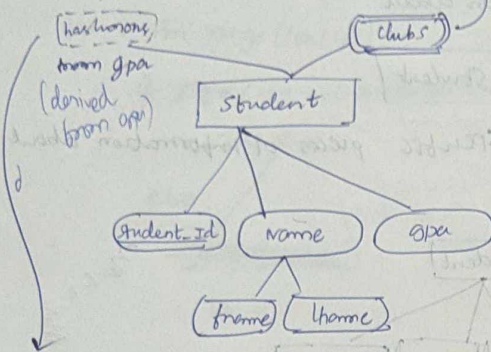
weak Entity :

An entity that can't be uniquely identified by its attributes alone.



Identifying Relationship - A relationship that serves to uniquely identify the weak entity.

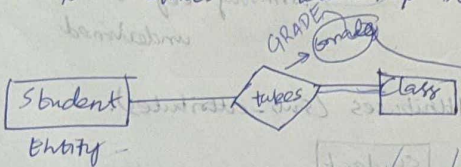
Multivalued attribute: An attribute that can have more than one value.



Derived attribute: An attribute that can be derived from the other attributes.

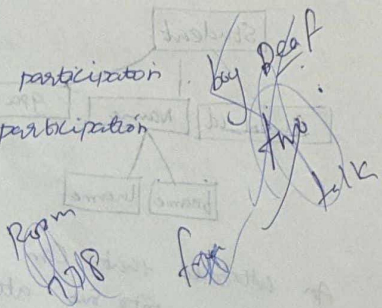
Multiple class: You can define more than one entity in diagram.

Relationships: defines a relationship between two entities.



Entity -

Partial participation:
 Total participation:



Relationship attribute:

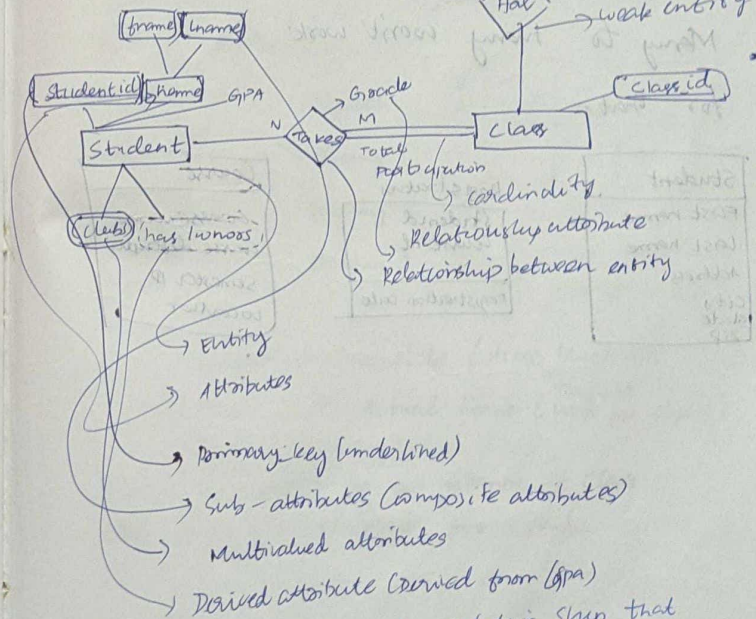
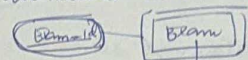
An attribute about the relationship.

Relationship cardinality:

the number of instances of an entity from a relation that can be associated with the relation.

Weak Entity:

An entity that cannot be uniquely identified by its attributes alone.



Identifying relationship - A relationship that serves to uniquely identify the weak entity.

ERD

Graphical representation of the data requirement of the database

self-name = name
Coco's foot notation

Many to many won't work for that

Student
First name
Last name
Address
City
State
Zip

Registration
Studentid
Course id
Registration Date

Course
Course name
Course description
Semester ID
Location