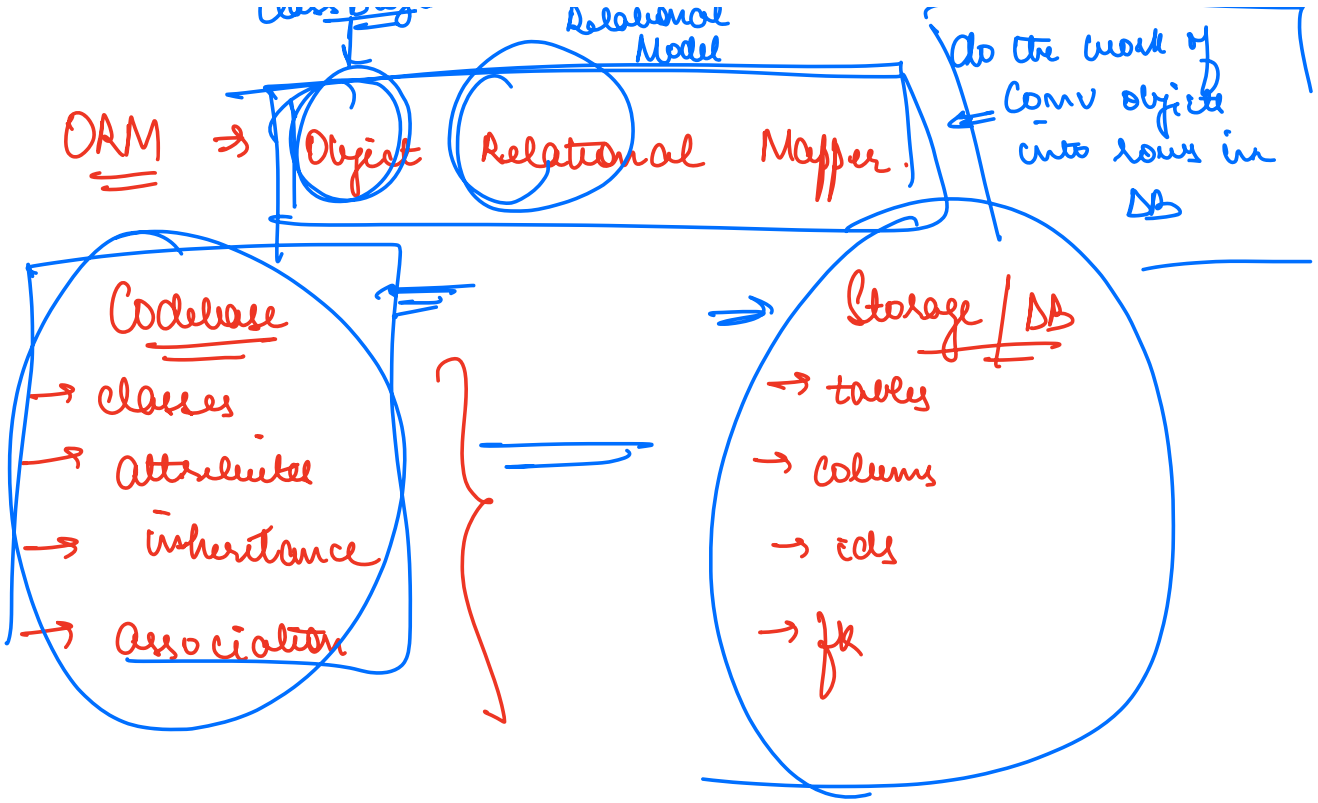
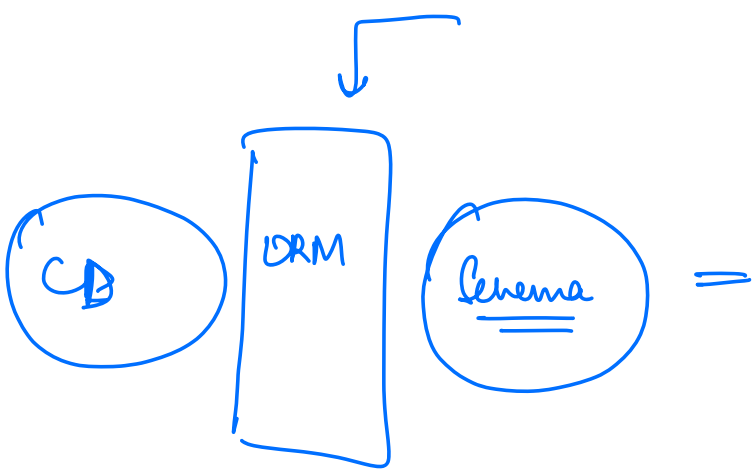



⇒ terms are diff but
Concepts are similar

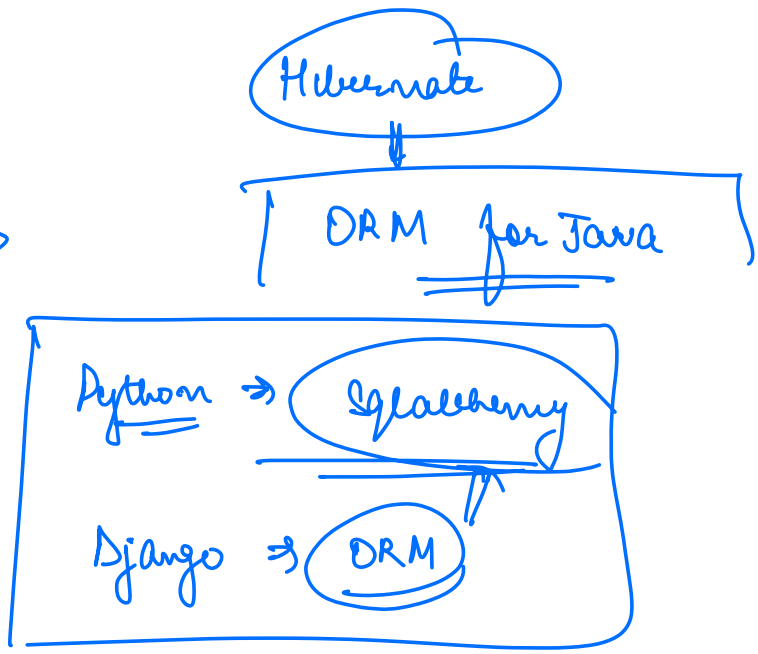



User u = ⇒ User Rep. getUserById (1234)

User {

List <Mobile>

}



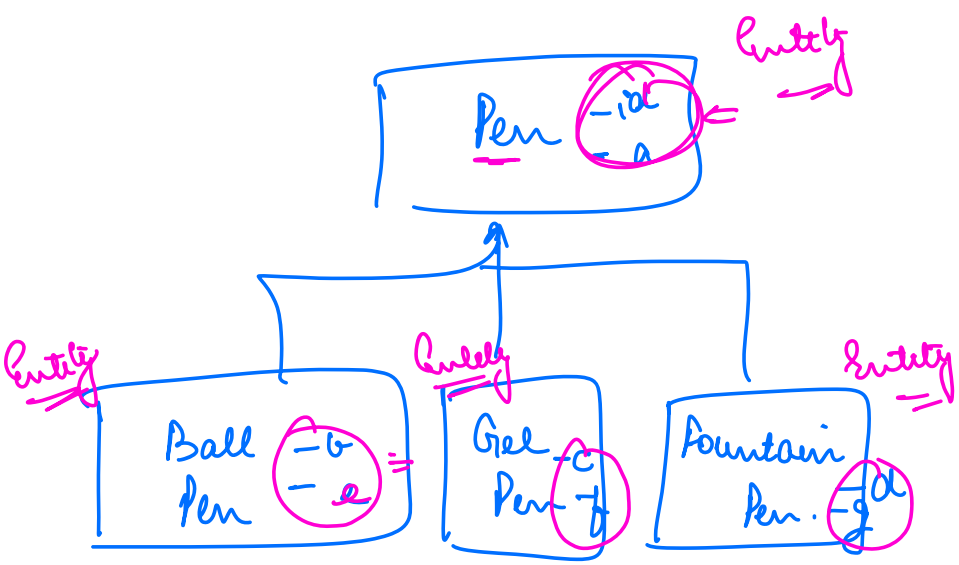

Class Pen {

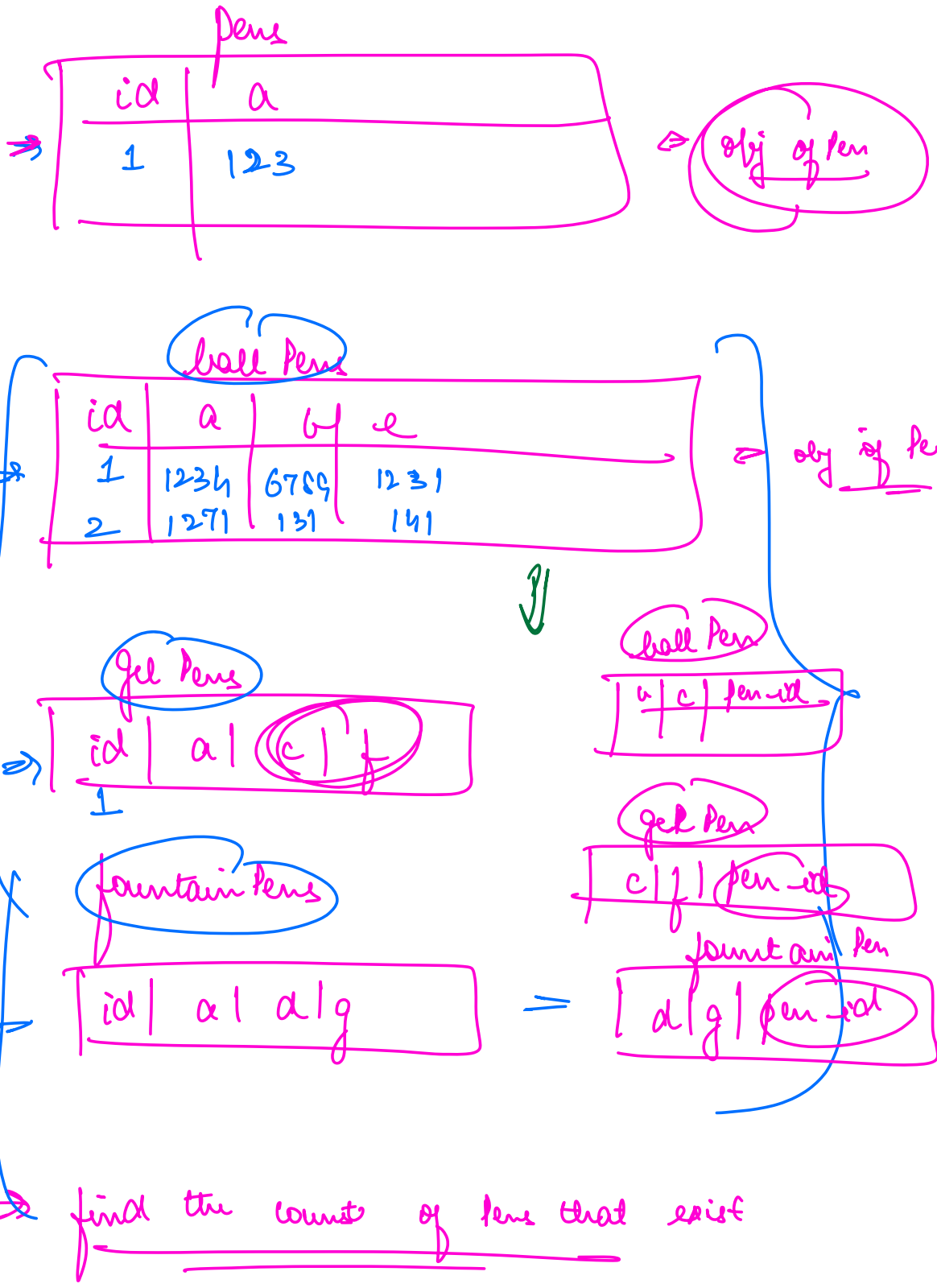
}

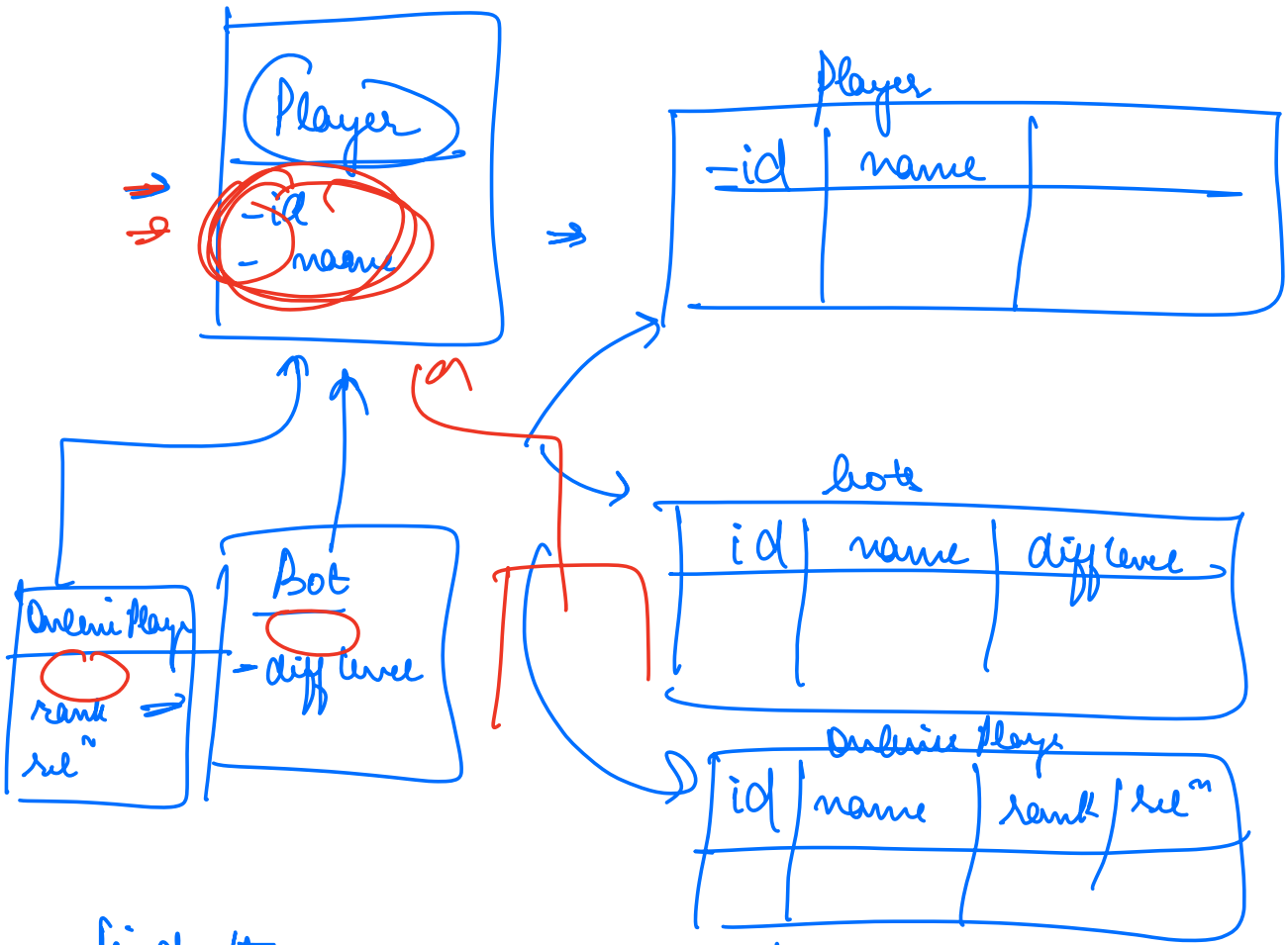
Class GelPen { }

Class BallPen { }

Class FountainPen { }




Pens
id
a
1
123
obj of pen
ball Pens
id
a
b
c
1
1234
6789
1231
2
1271
131
141
obj of pen
gel Pens
id
a
c
f
1
ball Pens
a
c
pen_id
gel Pens
c
f
pen_id
fountain Pens
id
a
d
g
fountain pen
d
g
pen_id
find the counts of pens that exist
Σ count of each of 4 tables.
Select count(*) from pens

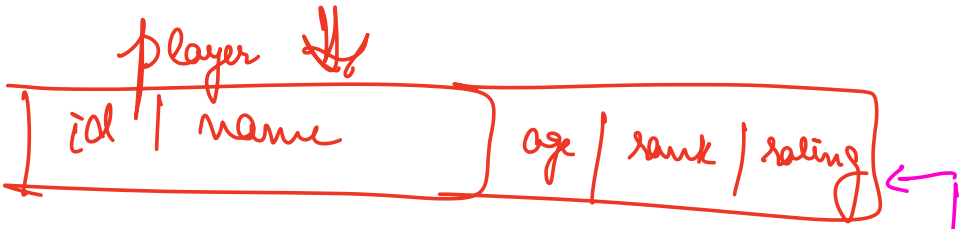



Find the name of every player who has played

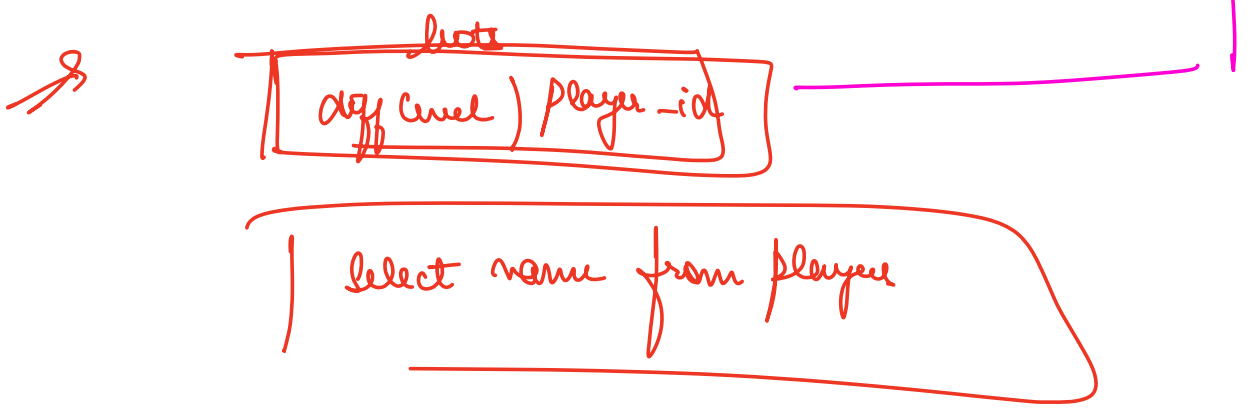
If ORM was sql inheritance, queries would have been diff.

YES

① All the player related attrs only have in the player table

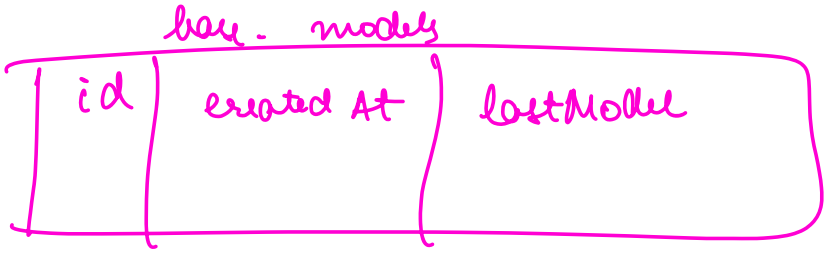


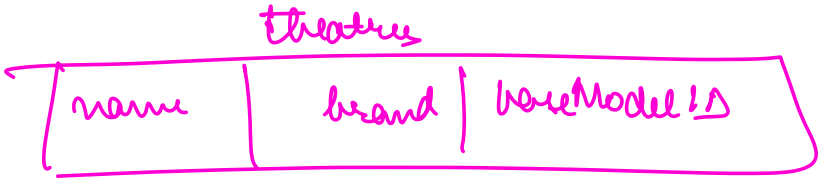

② each subtype table has only its own attr



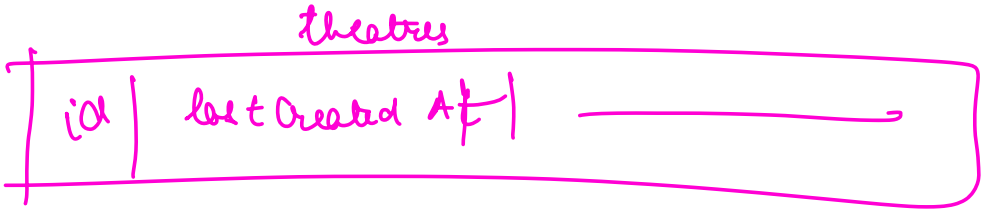

⇒ Inheritance shouldn't be rep by having each common attr in each of the child class. Instead the parent class should have a table and the tables of child class should create a fk to that

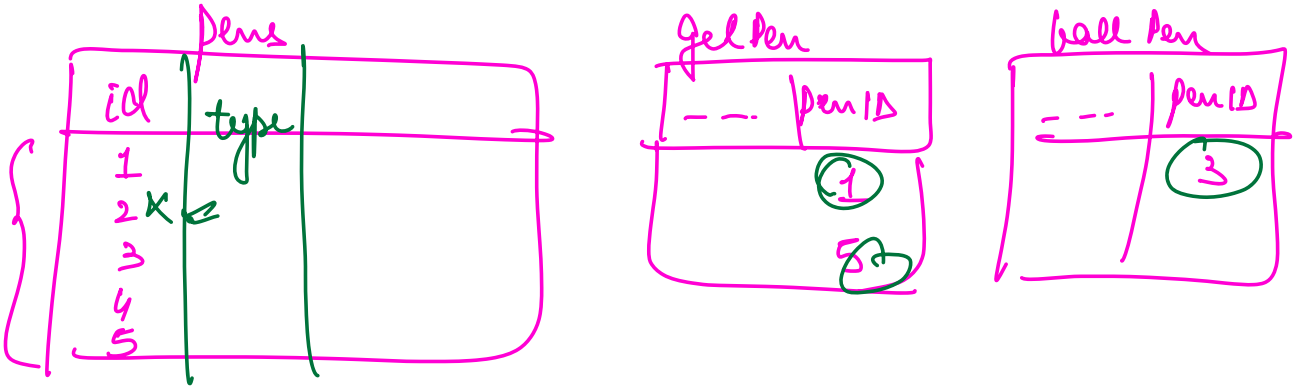
⇒ queries will be much easier

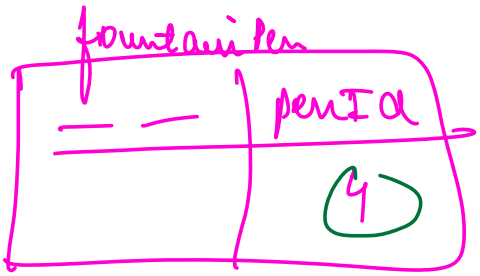


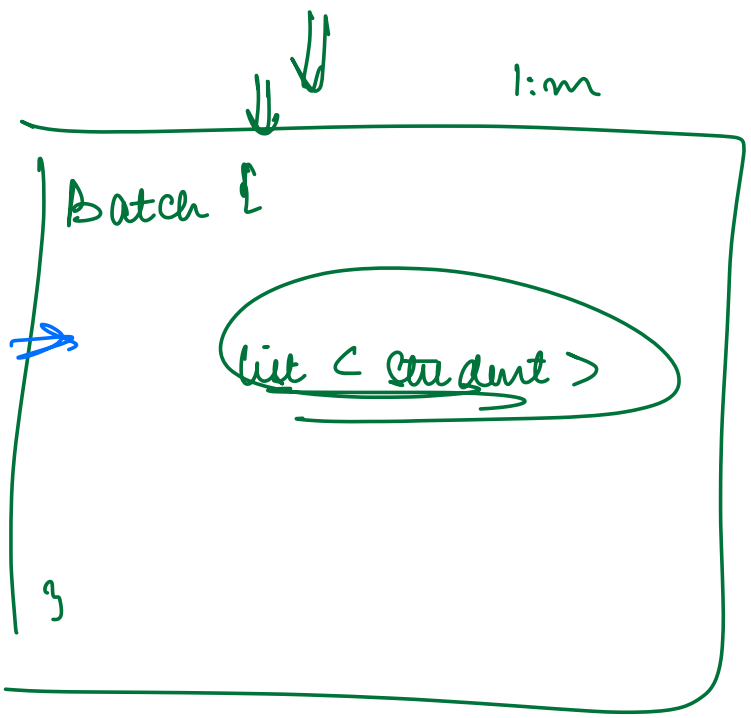

Y/S In case of Base Model we want all attrs of parent class to also be present in the tables of child classes.

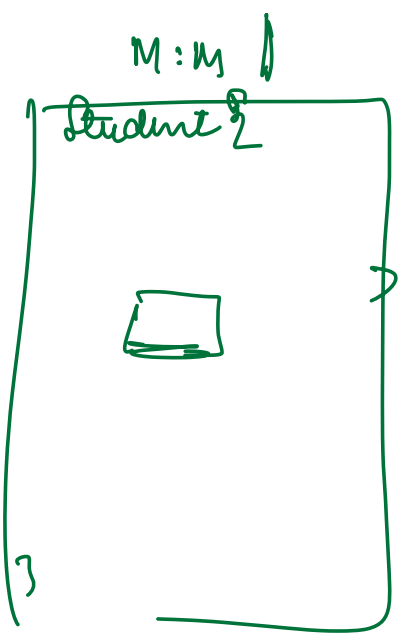





```
Select *
from pens where id NOT in (
    Select pen_id from gelPen
    union
    Select pen_id from ballPen.
)
```



Batch 1 {

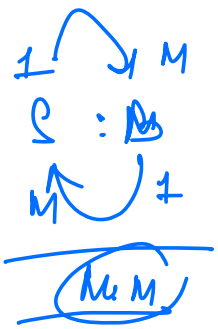
[ 1, 3, 7, 11 ]

}

Batch 2 {

[ 2, 4, 7, 9 ]

}




⇒ Cardinality of rel$^{n}$ must be specified.

Class Group {

User createdBy

List<User> members

List<User> admins

List<User> blockedUsers

}

| G | U |
|---|---|

1. figure out entities b/w whom the rel$^n$ is
2. figure the type of rel$^n$
3. find the cardinality

Show L

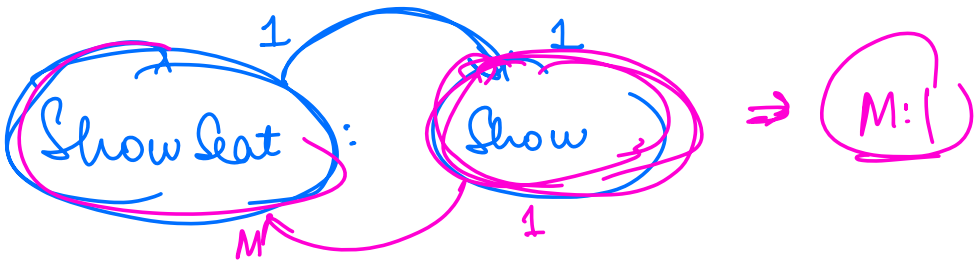
Audio

A : S1 : 1 ⇒ 4 pm

A : S2 ⇒ 5 ⇒ 8pm

A : S3 ⇒ 11 AM : 2 AM


M :



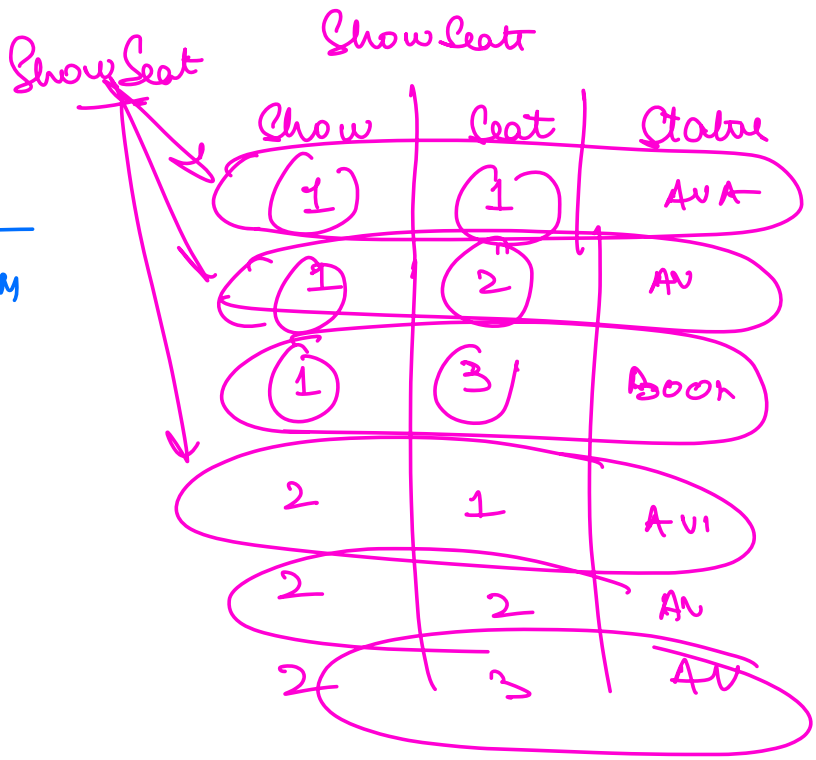

for a paticular seat,
for a particular show
this is the status


Seat Seat M:1

}

ShowSeat

KKHH 10AM
11
11
11



In every mapping class, for the entities that are involved in mapping

→ M:1

Show Seat {

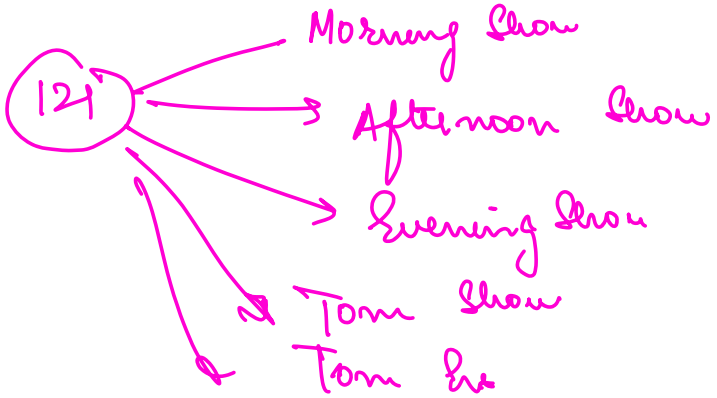
Seat

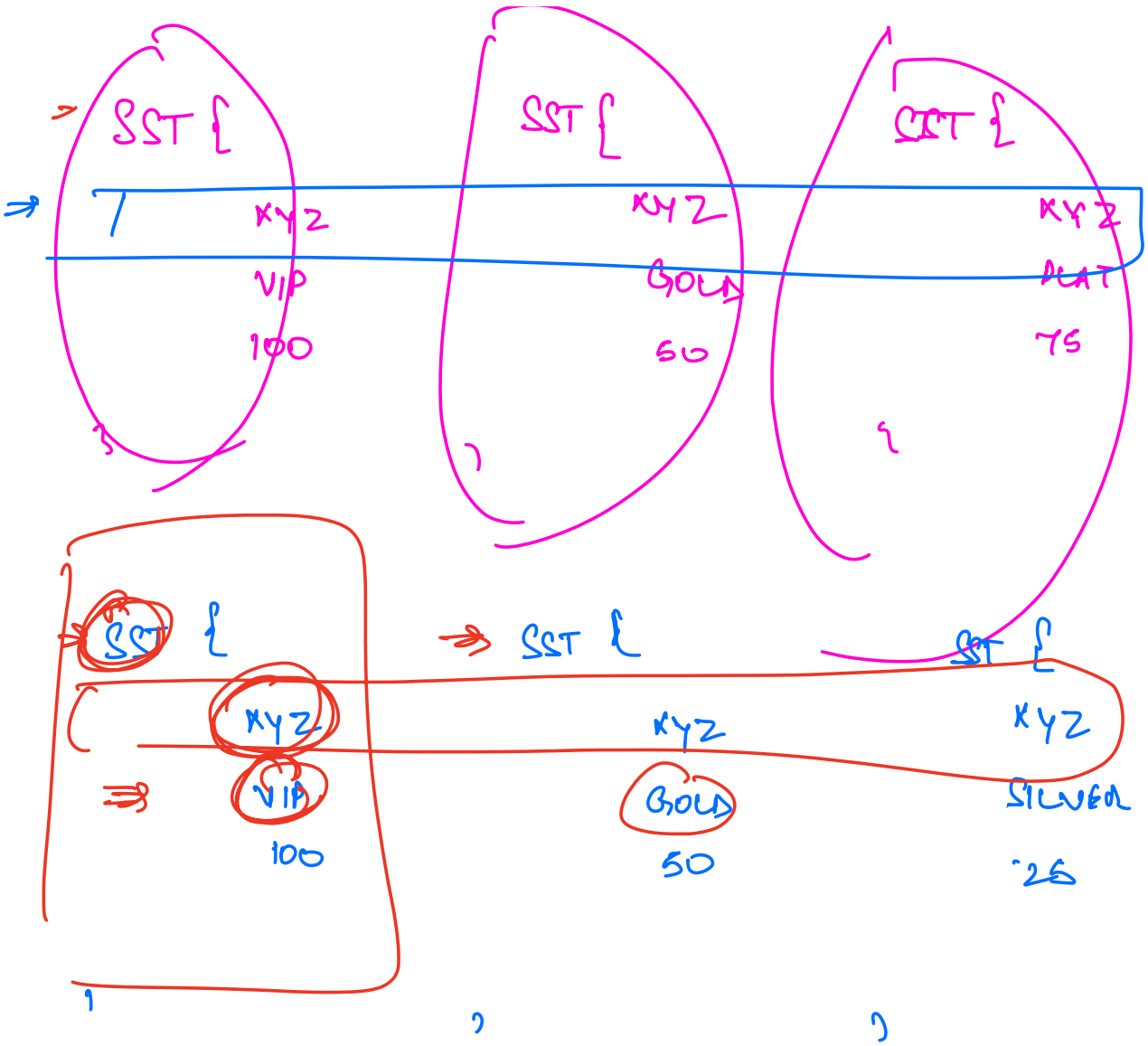
1 — 1

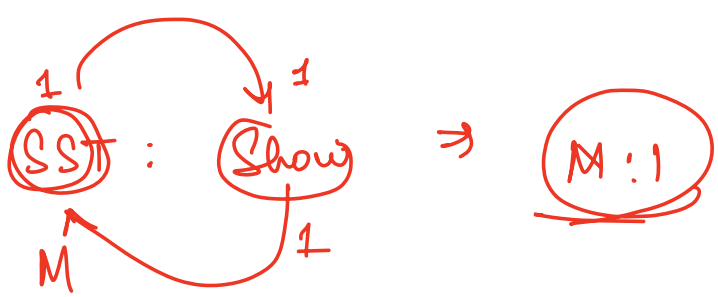
Show Seat : Seat

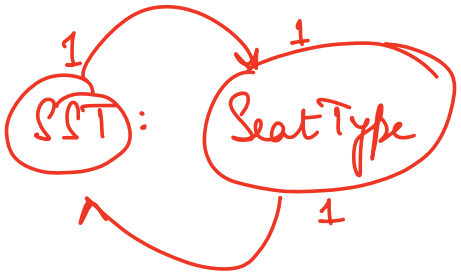
M — 1

}



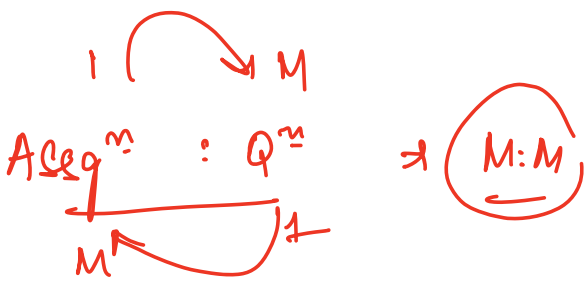

SST {
XYZ
VIP
100
SST {
XYZ
GOLD
50
SST {
XYZ
PLAT
75
SST {
XYZ
VIP
100
SST {
XYZ
GOLD
50
SST {
XYZ
SILVER
25


1
1
SST
:
Show
M
1
M : 1




Mapping Class : Class involved in Mapping

@ Many To One




Ass Question &

Assignment Question

3

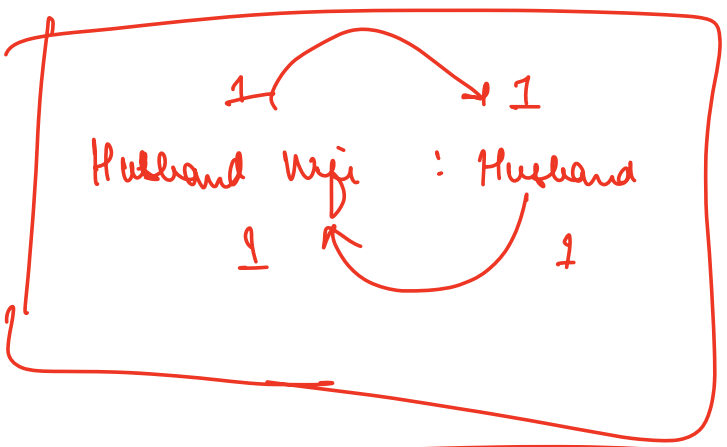
Husband Wife

Husband

Wife

married Date

}




1:1 ⇒ Org^n rel^n is 1:1

else ⇒ Many to One

H/W

⇒ Code yourself

⇒ Compare SD of BMS that you created V/S ORM