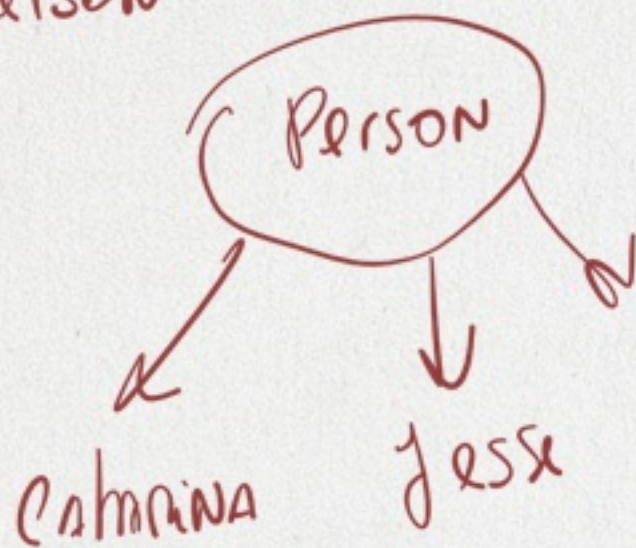


IFB 105 - Consolidation Lecture #2

Elementary facts raw narrative / context

Catering has voted to ~~name~~ the ship titanic
↓
 Person ↓
Ship



tho ~ 9 instances

PERSON Entity

with NAME
REFERENCE
MODE
→ PK

"CATARINA" | Voted in Ship Entity
VALUE

with name "hibanic"

8
ELEMENTARY FACT

Person with ID 55783 has NAME "Catarina"

SHIP

↑

PERSON	
ID	NAME
55783	Catarina

...

SHIP	
ID	NAME
123	Atlantic

Fruit "Apple" is harvested in "Australia" in "June"
 Fruit "Apple" is harvested in "Australia"

Fruit "BANANA" is harvested in "NZ" in "June"

Fruit	Country	Month
Apple	Australia	June
Apple	Australia	July
BANANA	NZ	June

in "June"

Fact type

Elementary Facts

What you CANNOT DO!

→ Negation ("Not") Person ~~CATHERINA~~ ^{JOANNA} DOES ~~NOT~~ LIKE LAMB

Connector Operations ("AND", "OR", ...)

Person "CATHERINA" visited "Countries"

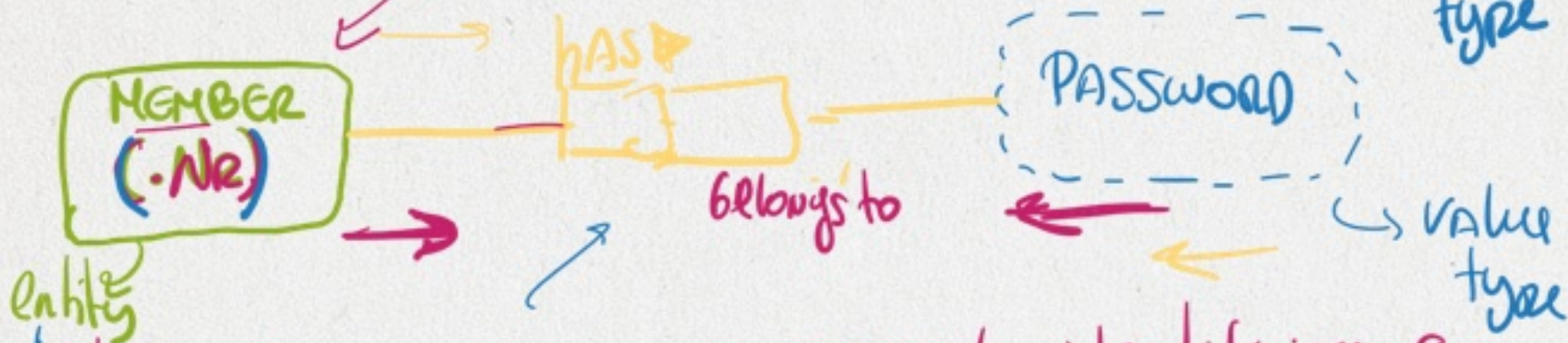
Conditional (IF/THEN/ELSE) (Questions) { Australia AND UK

Quantitative Operators ("All", "Some", "Exists" ...)

Step 2: Draw

the MEMBER with Nr '33' has Password 'password'

Entity Role Entity Value type



* there is no way of uniquely identifying a Password!

Nr	
33	'password'
34	'password'

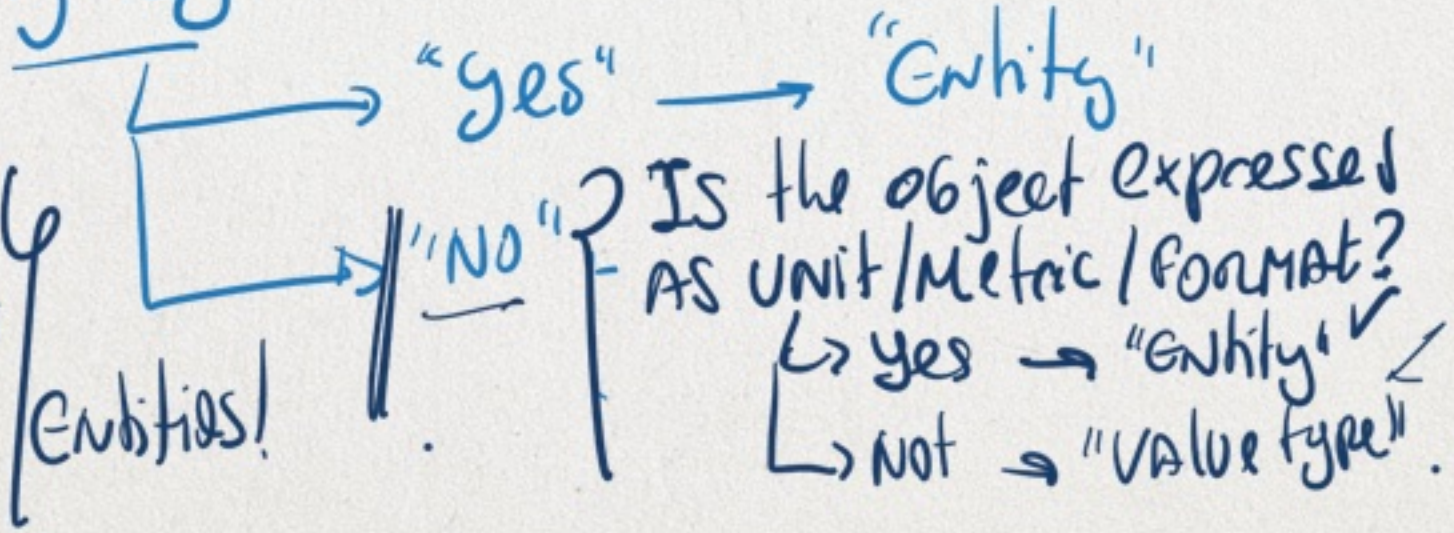
Member	
Nr	password

Heuristic: (Entity vs value type)

* Q: Can this "object" be uniquely identified by a primary key?

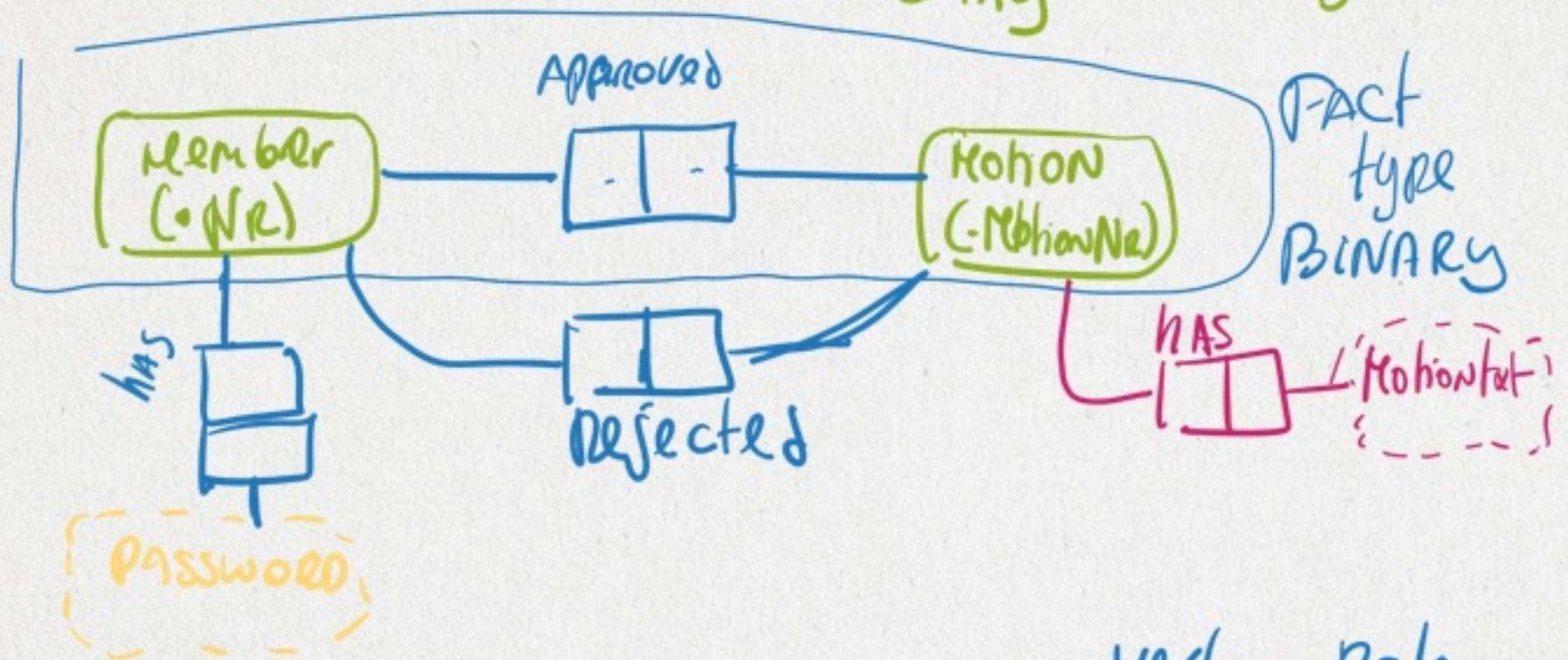
this means:

- Prices
- Heights/weights
- Date



the Member with MemberNr '33' | reject : role
 Entity ref role Member

the Motion with MotionNr '52'
 Entity ref role



Verb = Role

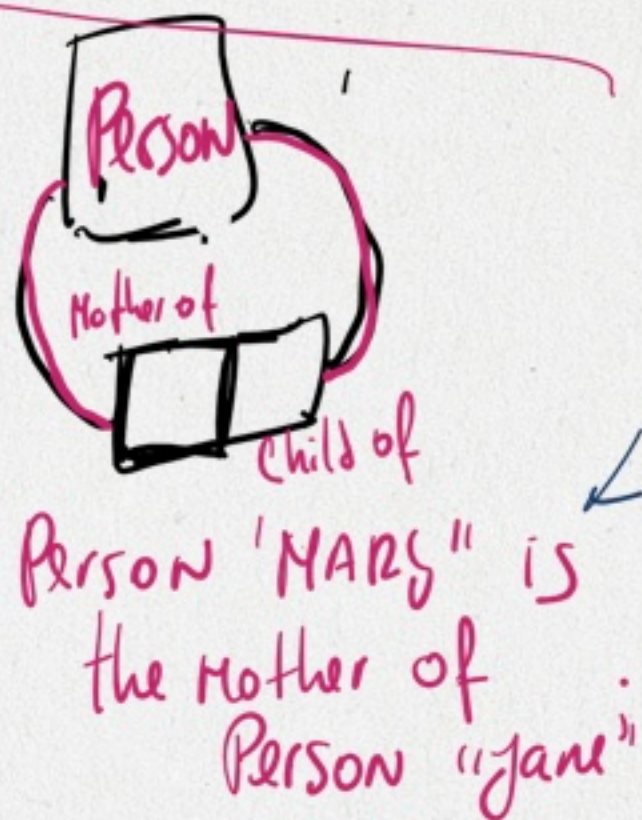
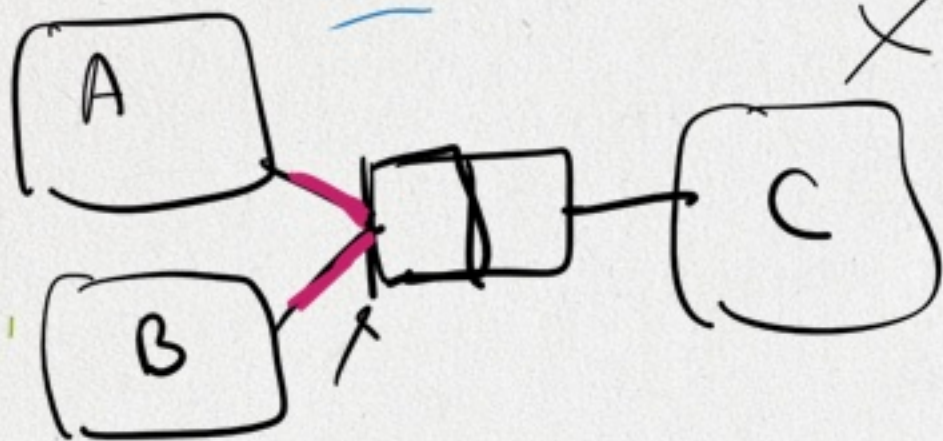
Person with Name "Catarina"
 Entity ref role

Eats
 is eating

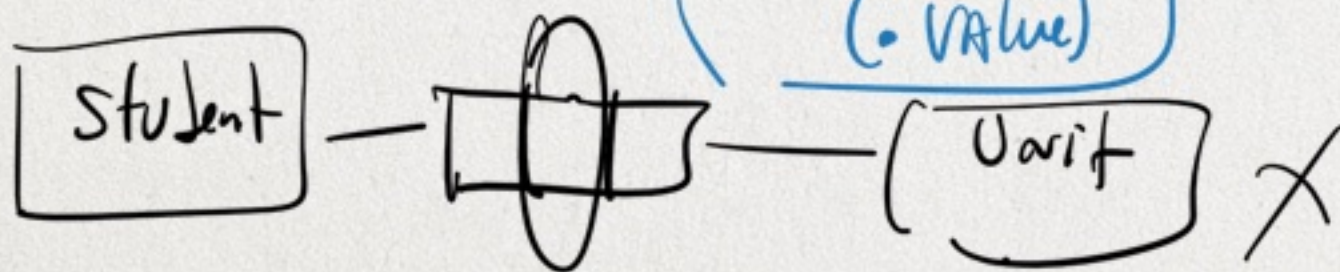
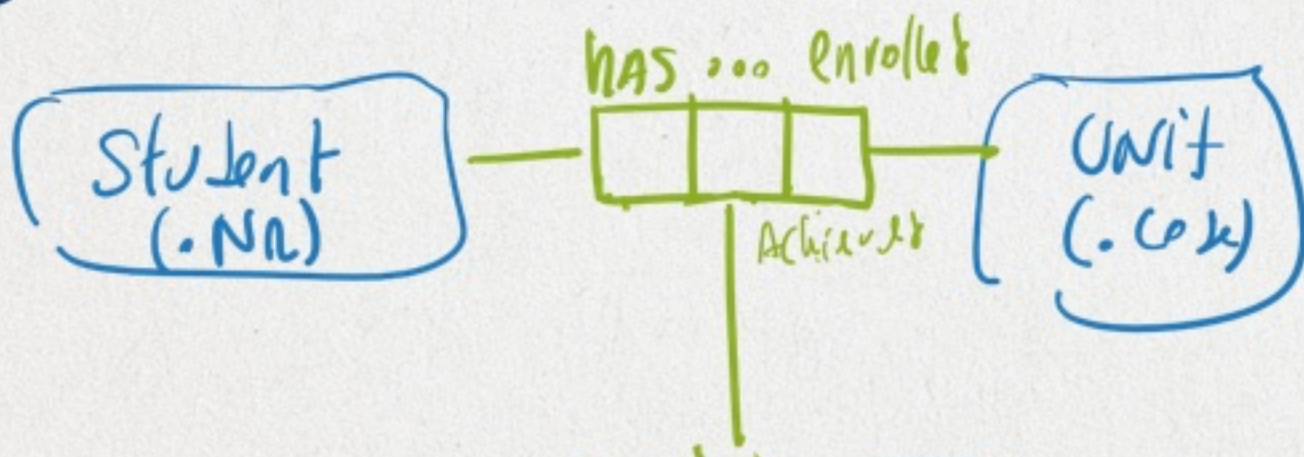


UNARY

Student with Nr 557 enrolled in Unit with
code "IFB105" has GRADE with value 7



Mother 'Mang' has Child Jane



Step 3: COMBINING THINGS

Mother with name "Mary" has child with name "Jane"



Person with name "MARY" is the mother of Person with Name "Jane"

