

Modeler



Administors

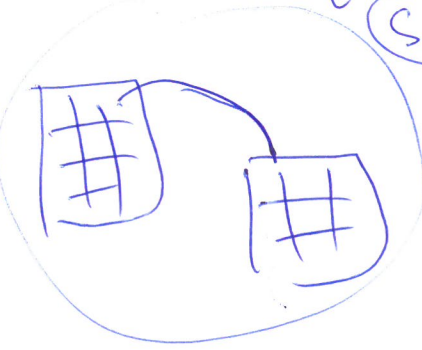
DBMS

developers

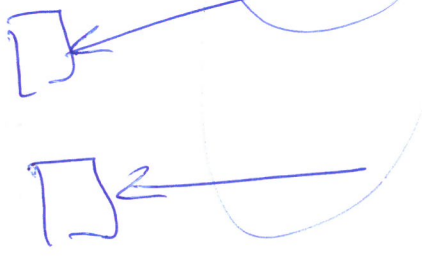
APIs

Java

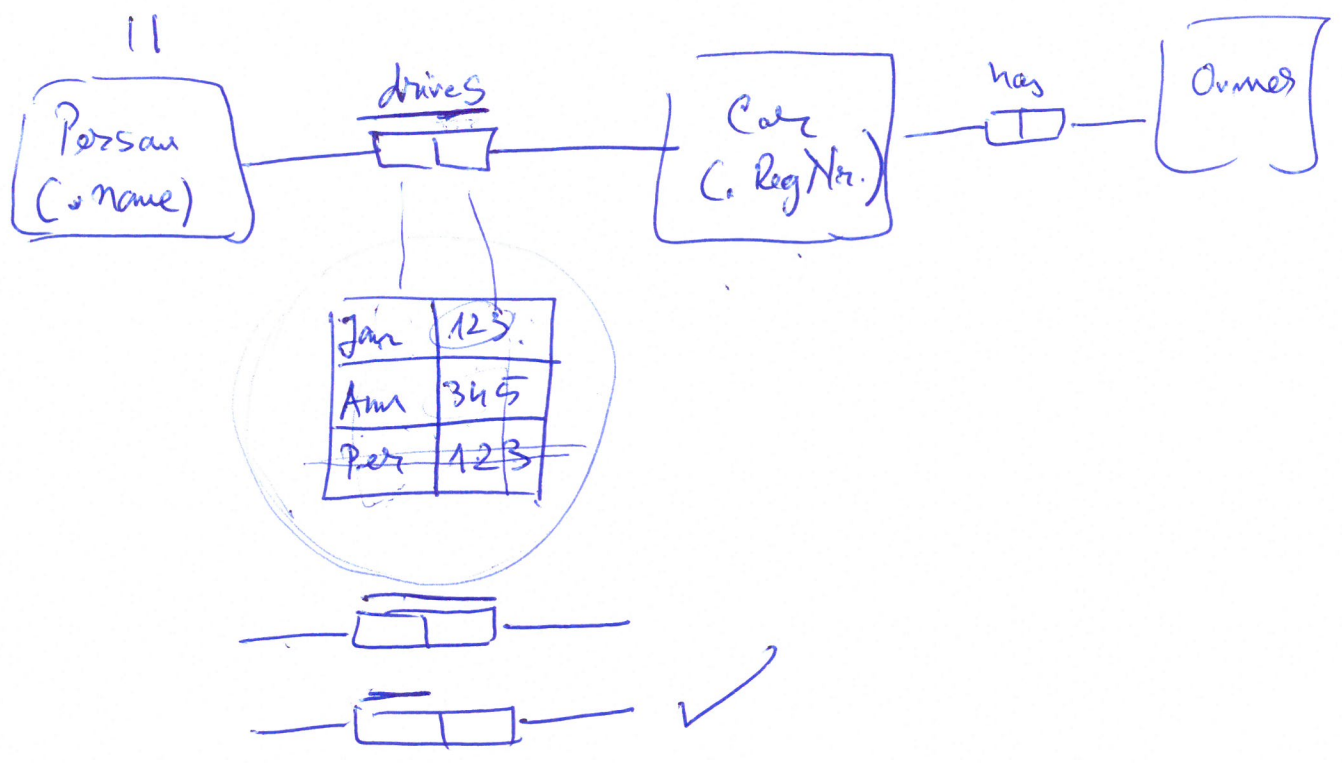
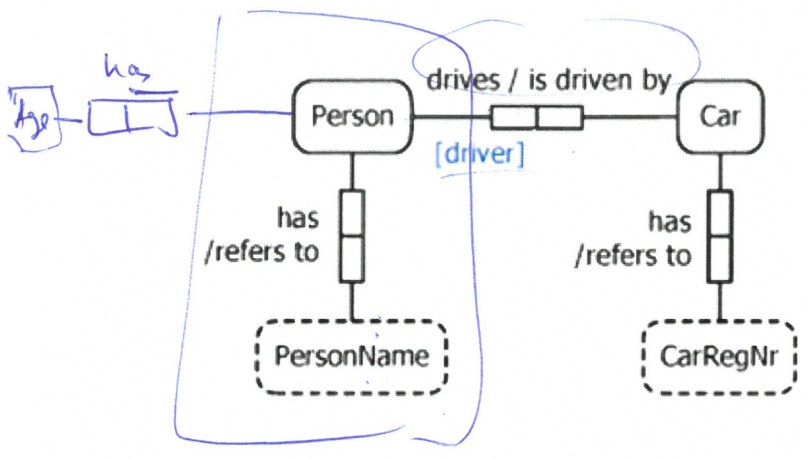
PostgreSQL
MySQL
SQLite
...



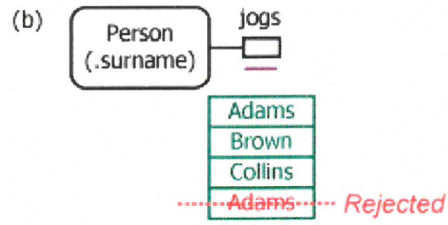
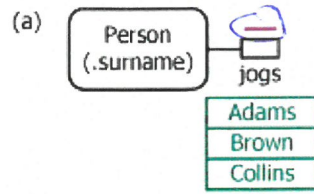
name	age
su	
.	.

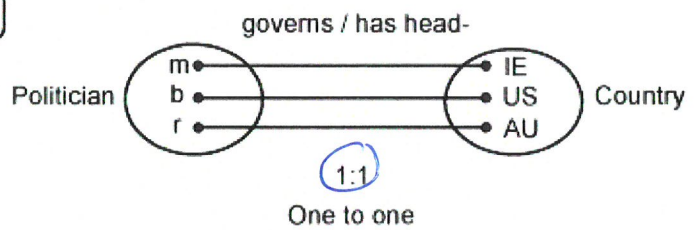
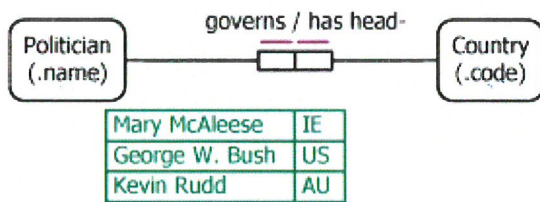


Entity types: Person, Car
 Value type: Name, RegNr.
 Roles: driver
 Predicate: drives

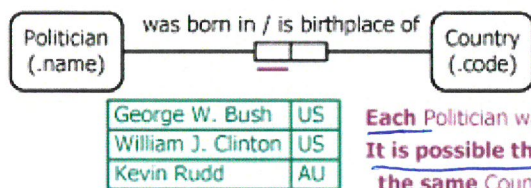


Recap

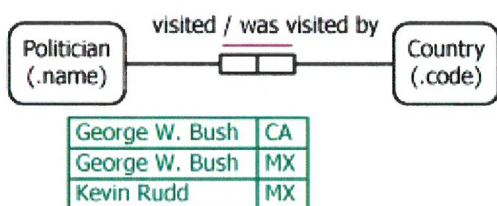
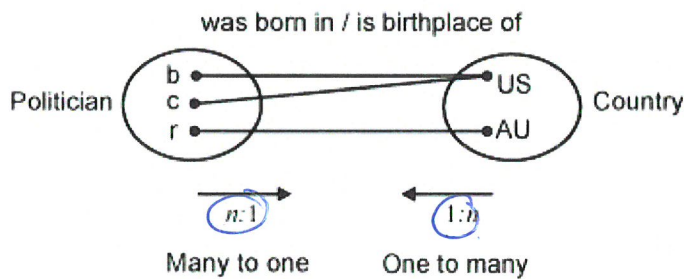




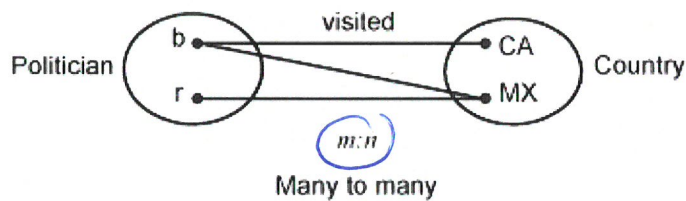
Each Politician governs **at most one** Country.
 Each Country has **at most one** head Politician.



Each Politician was born in **at most one** Country.
 It is possible that **the same** Country is birthplace of **more than one** Politician.



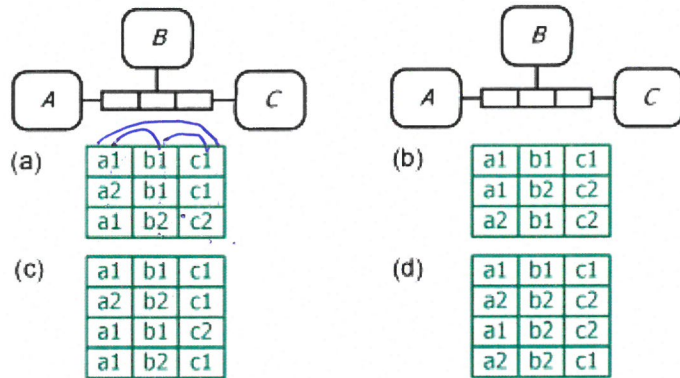
It is possible that **the same** Politician visited **more than one** Country
 and that **the same** Country was visited by **more than one** Politician.



Examples

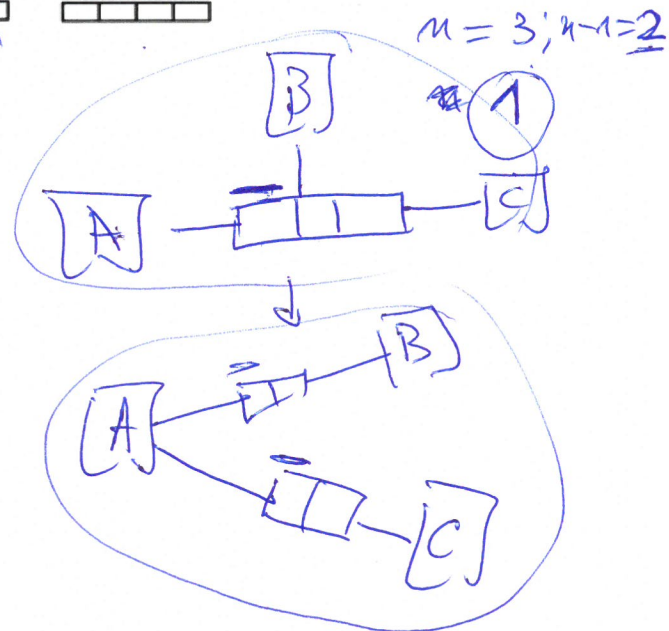
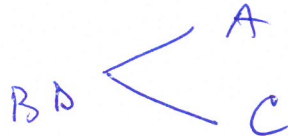
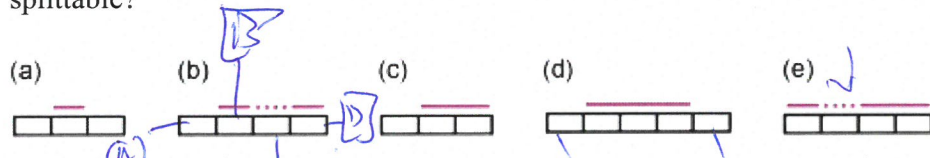


1. A template for a ternary fact type is shown. For each of the fact tables provided, add the uniqueness constraints, assuming that the population is significant in this regard.



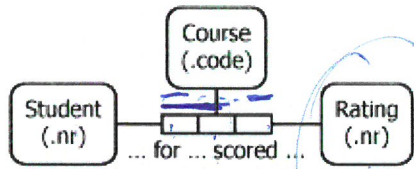
$n-1$

2. The keys for certain fact types are as shown. On this basis, which of these fact types are definitely splittable?



(a) AB, AC (b) AB, AC, BC (c) ABC (d) AC

Objectification



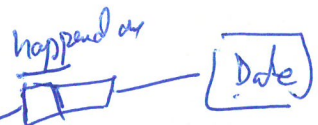
1001	CS100	4
1002	CS100	4
1002	CS114	5

(1003, CS114, 6)

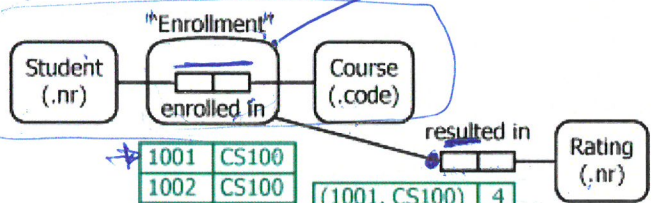
111

Student '1001' enrolled in Course 'CS100'

this enrollment resulted in Rating '4'



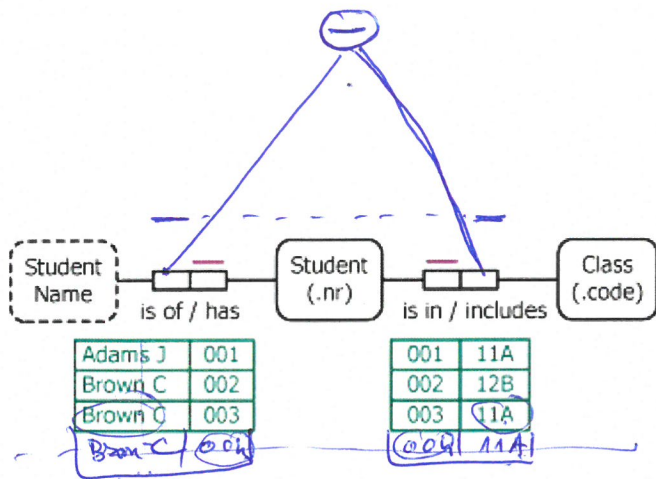
VS 2 3-7els



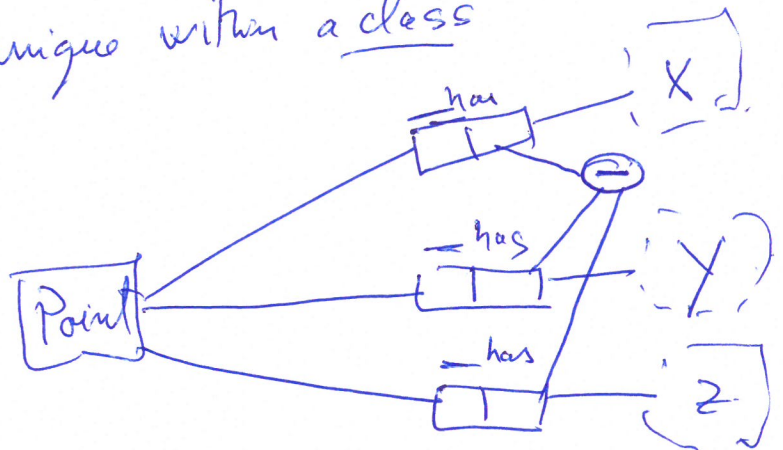
1001	CS100
1002	CS100
1002	CS114
<u>1003</u>	<u>CS114</u>

(1001, CS100)	4
(1002, CS100)	4
(1002, CS114)	5
<u>(1003, CS114)</u>	<u>6</u>

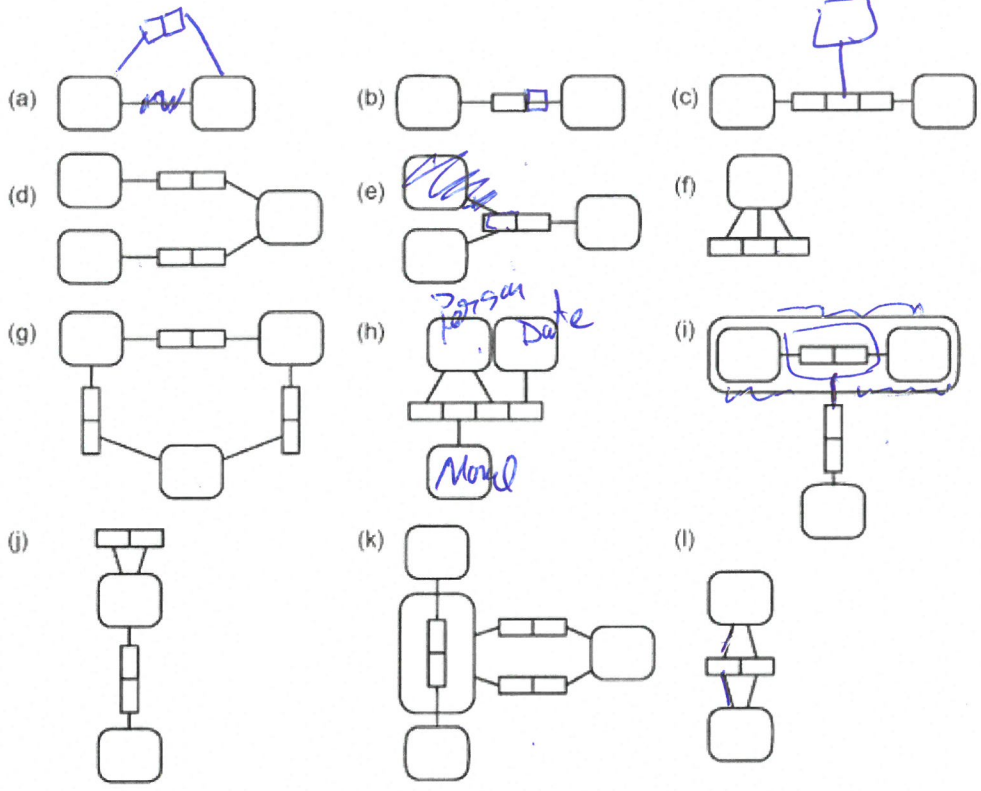
Obj



"Student names are unique within a class"



~~Modification~~ Extend UC



Ex: