

# Conception de base de données

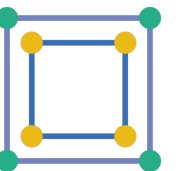
## MCD

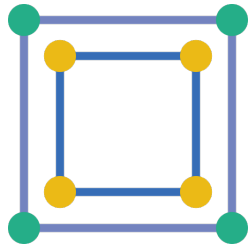


**Ilies LEB CIR**



**Qu'est-ce qu'un MCD ?**





# **Le modèle conceptuel de donnée**

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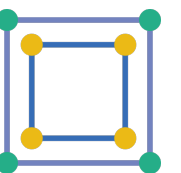
**Représentation graphique et structurée des informations mémorisé par un système**

**« Diagramme ER » est notre base**

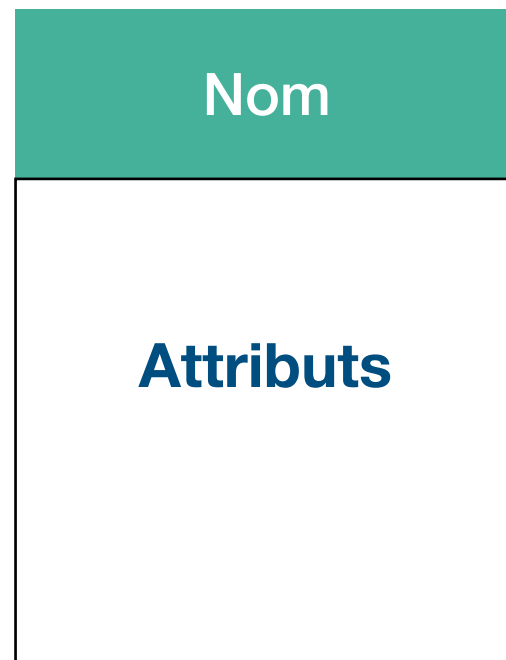
**Entités et relation**

**La logique des relations entre entités**

# Evolution des entités et table

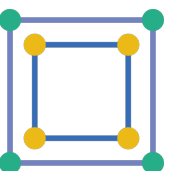


## Classe d'entité

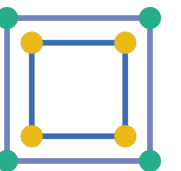


## Occurence

ID	Nom	Prénom	Age	Langage
1	Dupont	Hakim	18	C++
2	Lee	Pierre	25	JS
3	Salem	Joseph	54	JS
4	Maclagan	Mike	43	C++



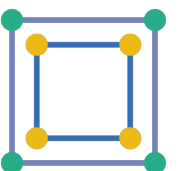
# Cardinalité



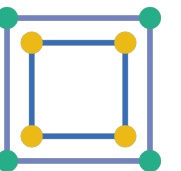
## Minimum - Maximum

0 = optionnel

n = supérieur à 1

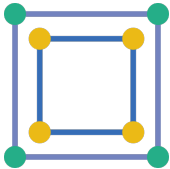
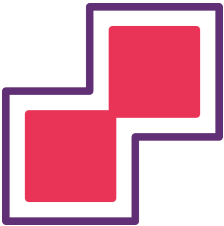
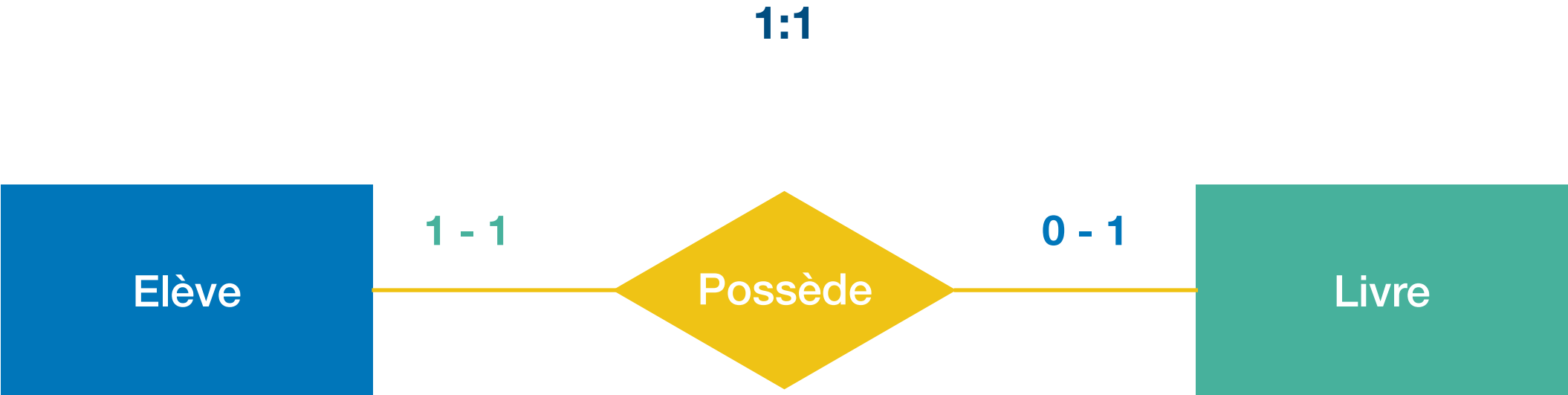


# Données portées



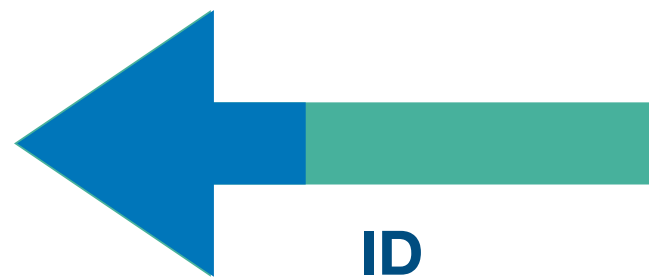


Maximum - Maximum

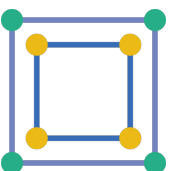


**Maximum - Maximum**

**1:n**

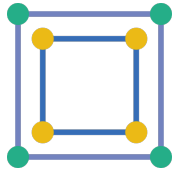
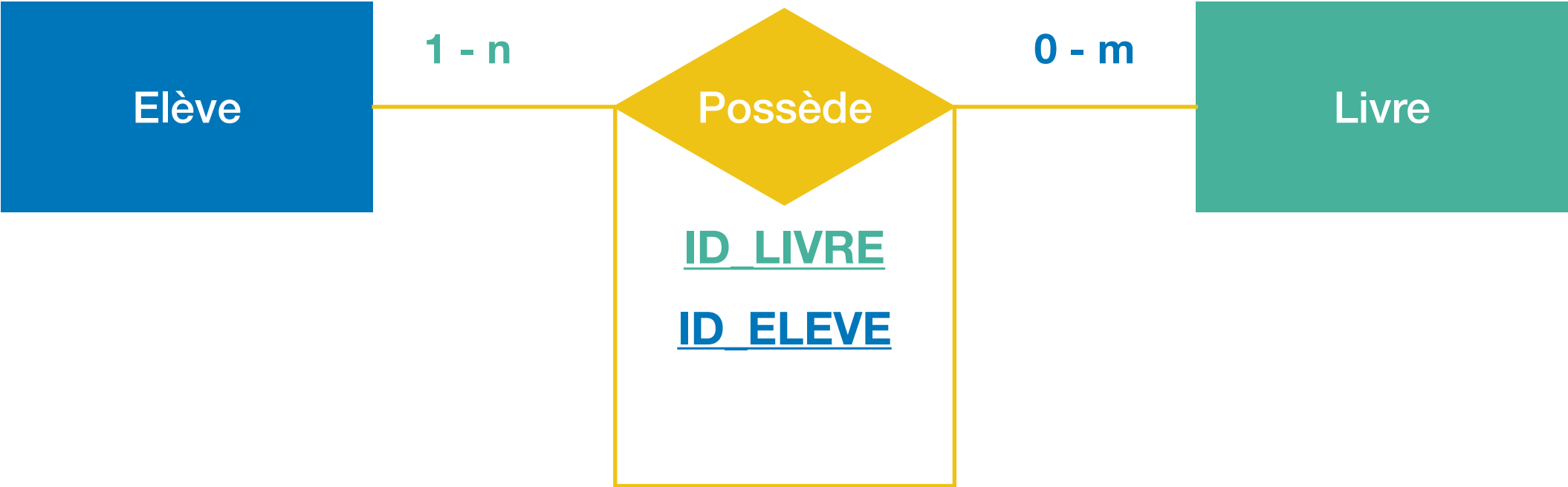


**Clef étrangère**

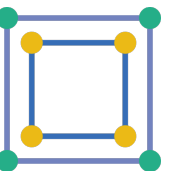


Maximum - Maximum

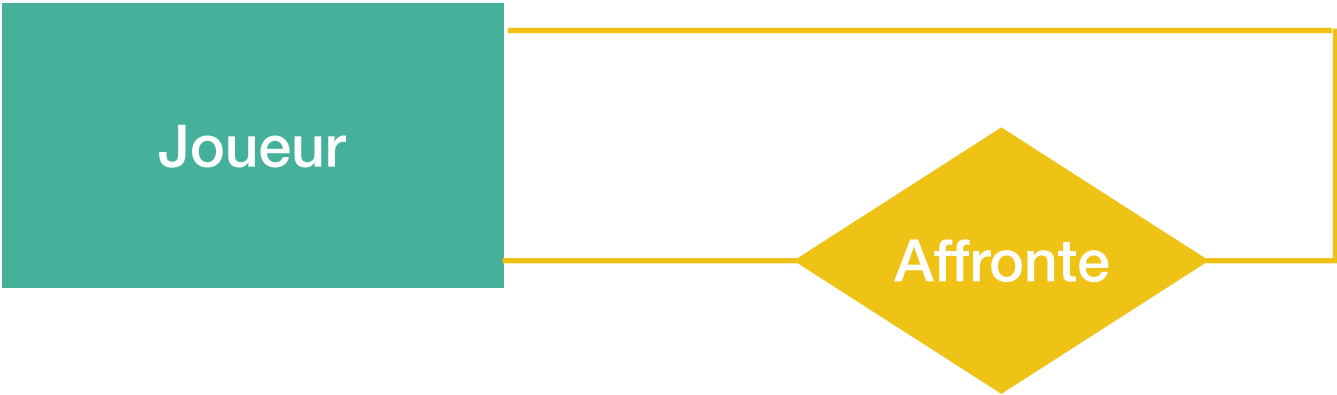
n:m



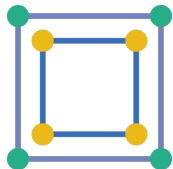
# Type de relation



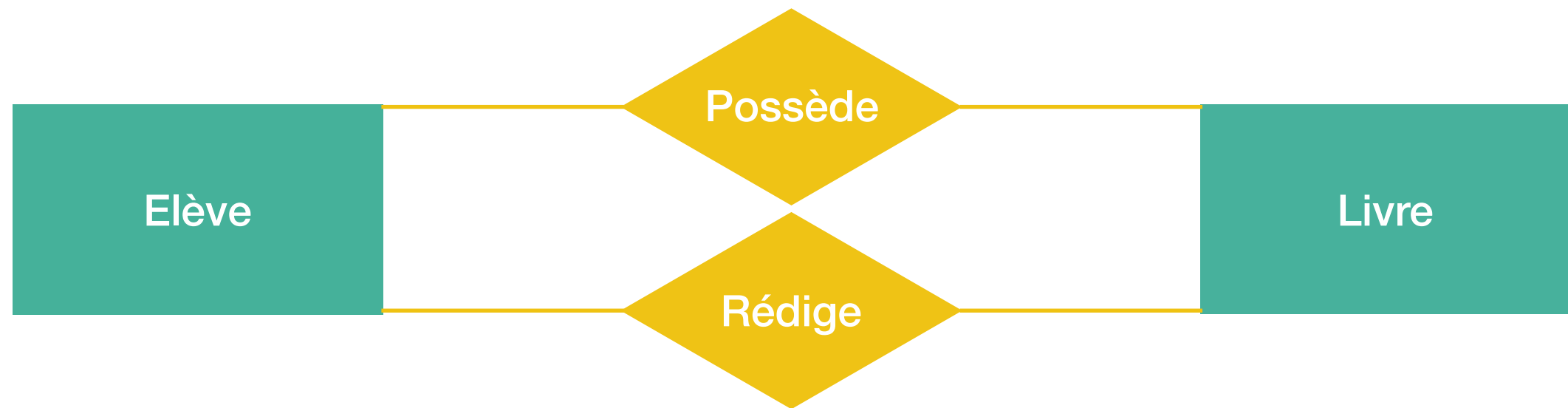
**Reflexive**



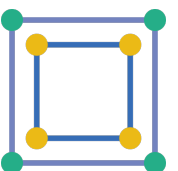
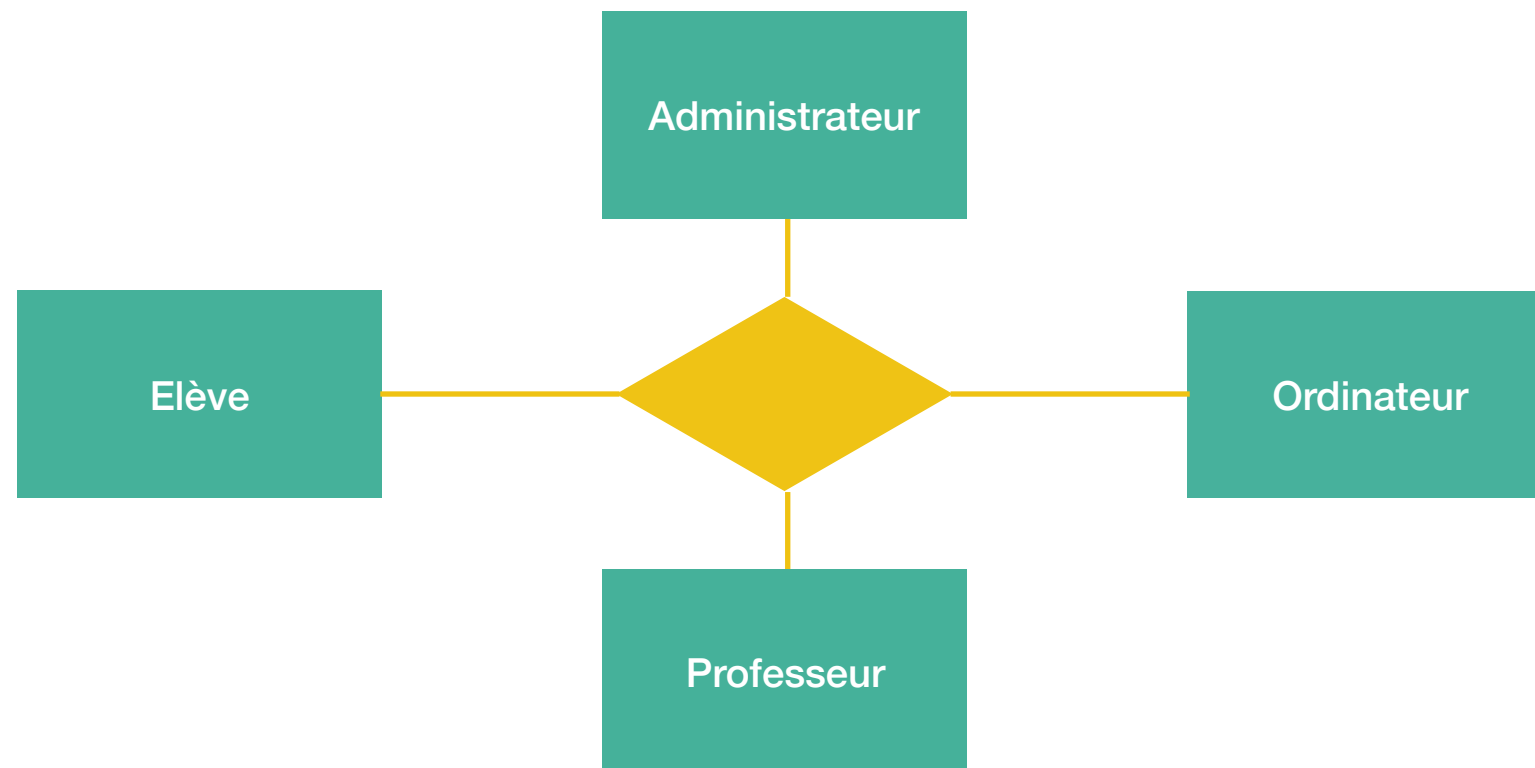
**Binaire**



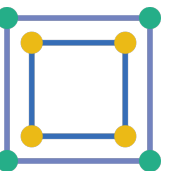
## Association plurielle



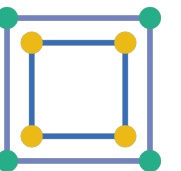
## N-aire



**Appliquer la recette**

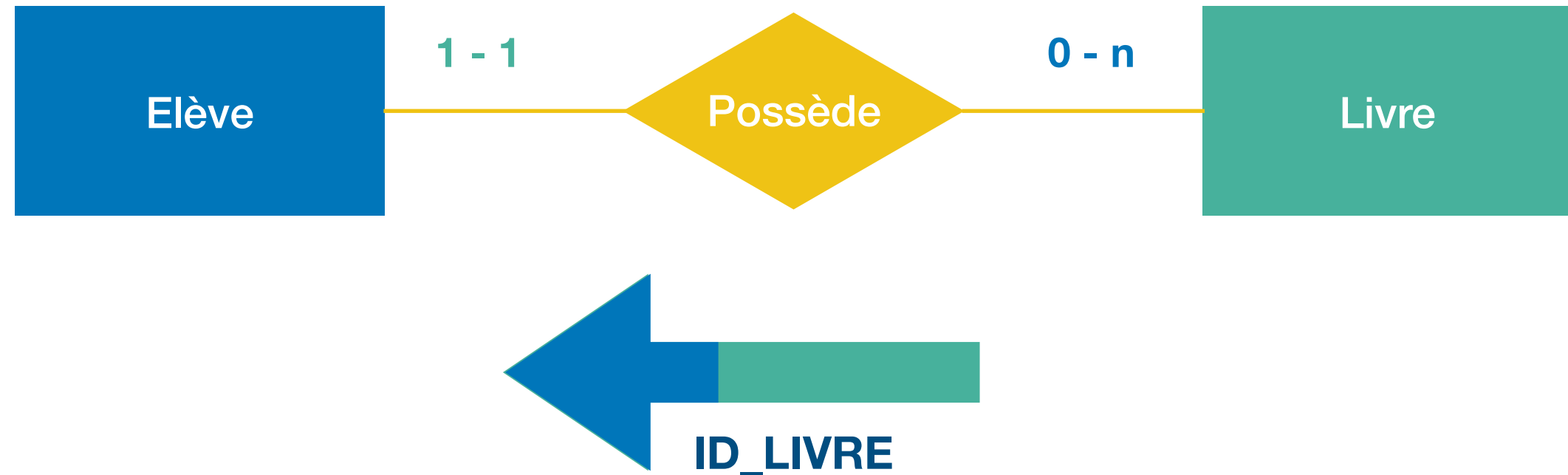


**Ensuite ?**





Après le MCD → MLD



Elève (id\_eleve, attributs, #*id\_livre*)

Livre (id\_livre, attributs)

