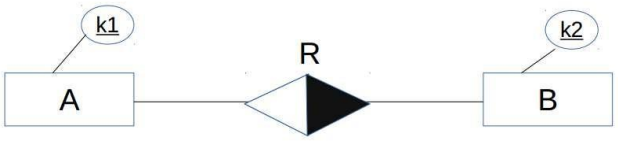
Summary how to convert ER into RM

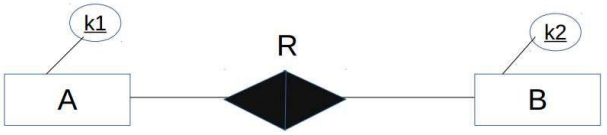
PK: Primary Key (Clave primaria)
FK: Foreign Key (Clave ajena)

Binarias



B (k2, k1)
Pk (k2)
Fk (k1) ->A

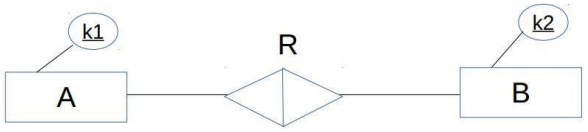
A (k1)
Pk (k1)



A (k1)
Pk (k1)

B (k2)
Pk(k2)

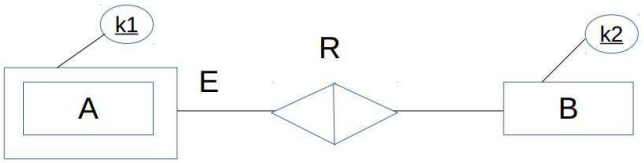
R (k1,k2)
Pk (k1,k2)
Fk (k1) → A
Fk (k2) → B



A (k1)
Pk (k1)

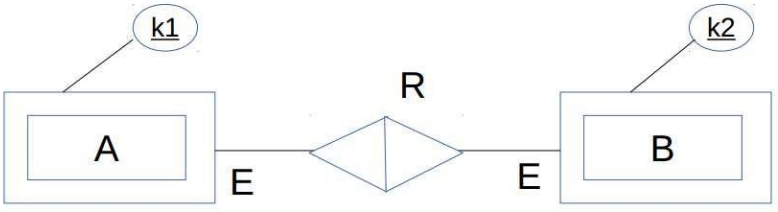
B (k2)
Pk (k2)

R (k1, k2)
Pk (k1)
AltK (k2)
Fk (k1) → A
Fk (k2) → B

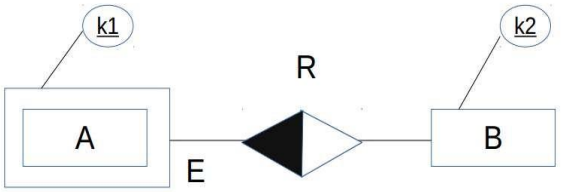


A (k1, k2)
Pk (k1)
AltK (k2)
Fk (k2) → B

B (k2)
Pk (k2)

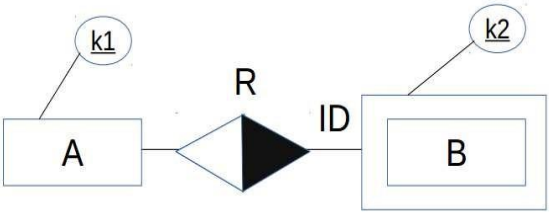


R (k1, k2)
Pk (k1)
AltK (k2)



B (k2)
Pk (k2)

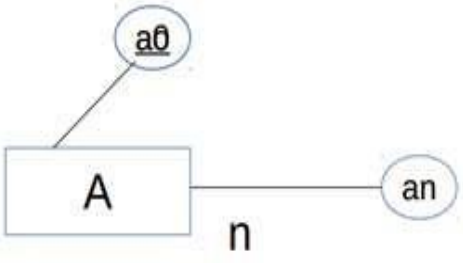
A (k1, k2)
Pk (k1)
NotNull (k2)
Fk (k2) → B



A (k1)
Pk (k1)

B (k2, k1)
Pk (k2, k1)
Fk (k1) → A

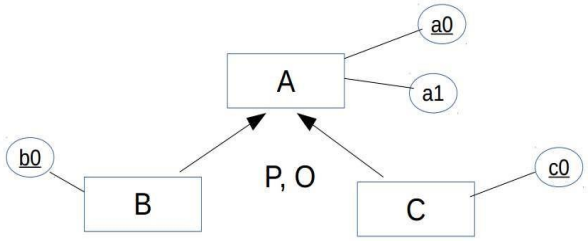
Multivaluados



A (a0)
Pk (a0)

Ta (a0, an)
Pk (a0, an)
Fk (a0) → A

Generalizaciones / Especificaciones



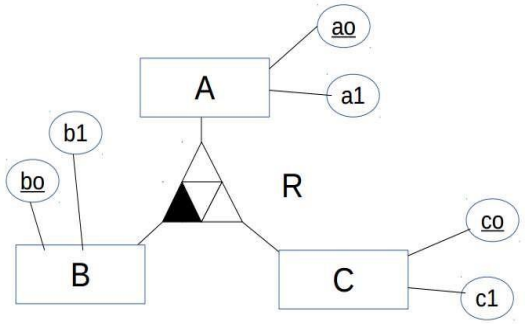
A (a0, a1)
Pk (a0)

B (a0, b0)
Pk(a0)
Fk(a0) → A

C (a0, c0)
Pk (00)
Fk(a0) → A

* The RM cannot represent T, D relationship ----> Semantic Lost

Ternarias

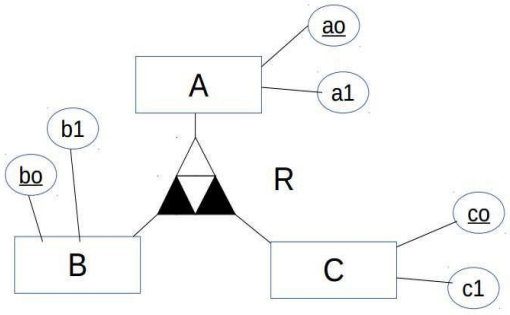


A (a0, a1)
Pk (a0)

B (b0, b1)
Pk (b0)

C (c0, c1)
Pk (c0)

R (a0, b0, c0)
Pk (a0, b0)
AltK (b0, c0)
Fk(a0) → A
Fk(b0) → B
Fk(c0) → C

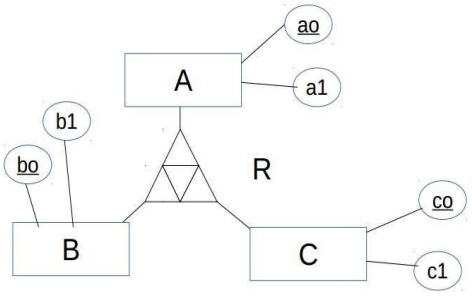


A (a0, a1)
Pk (a0)

B (b0, b1)
Pk (b0)

B (c0, c1)
Pk (c0)

R (a0, b0, c0)
Pk (b0, c0)
NotNull (a0)
Fk(a0) → A
Fk(b0) → B
Fk(c0) → C



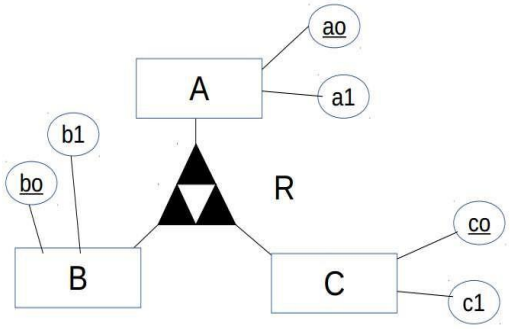
A (a0, a1)
Pk (a0)

B (b0, b1)
Pk (b0)

C (c0, c1)
Pk (c0)

R (a0, b0, c0)
Pk (a0, b0)
AltK (a0, c0)
AltK (b0, c0)

Fk(a0) → A
Fk(b0) → B
Fk(c0) → C



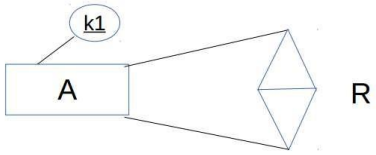
A(a0, a1)
Pk (a0)

B (b0, b1)
Pk (b0)

C (c0, c1)
Pk (c0)

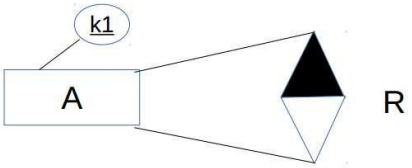
R (a0, b0, c0)
Pk (a0, b0, c0)
Fk(ao) → A
Fk(b0) → B
Fk(c0) → C

Relaciones Reflexivas

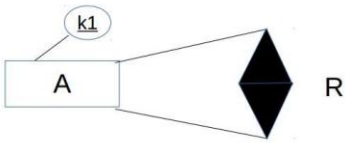


A (k1)
Pk (k1)

R (k1, k1x)
Pk (k1)
AltK (k1x)
Fk (k1) → A
Fk (k1x) → A



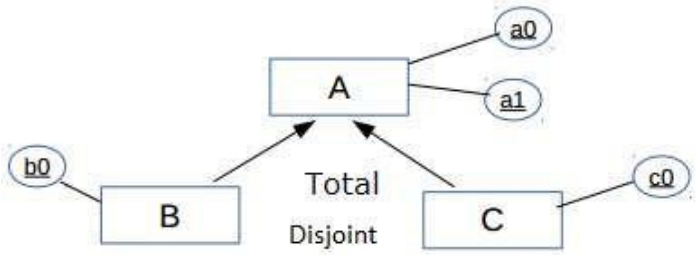
A (k1,k1x)
Pk (k1)
Fk (k1x) → A

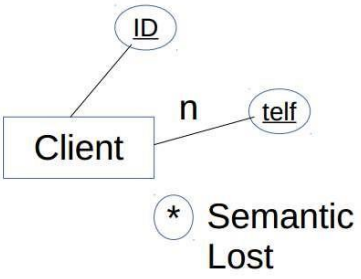


R (k1,k1x)
Pk (k1,k1x)
Fk (k1) → A
Fk (k1x) → A

A (k1)
Pk (k1)

Pérdidas Semanticas


a0
A
a1
b0
Total
B
Disjoint
C
c0


ID
n
telf
Client
*
Semantic
Lost