







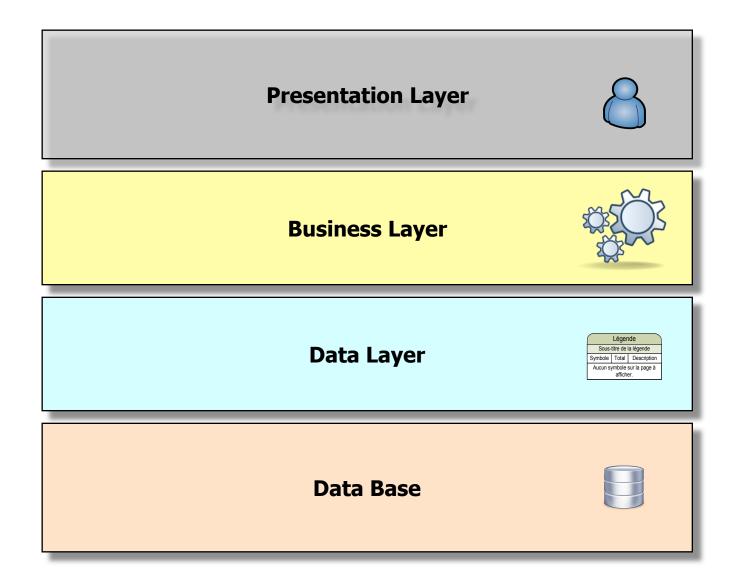
Conception Avancée de Bases de Données

Jointure Naturelle



Layered Architecture

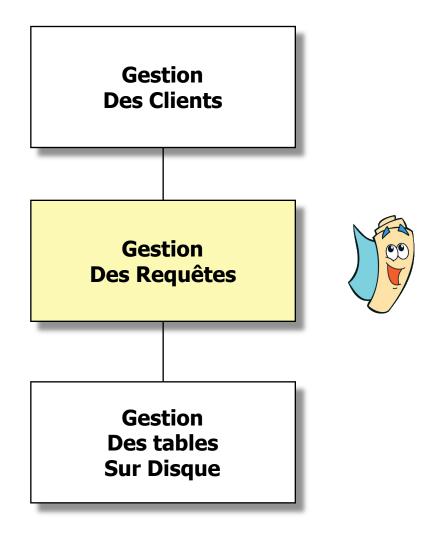


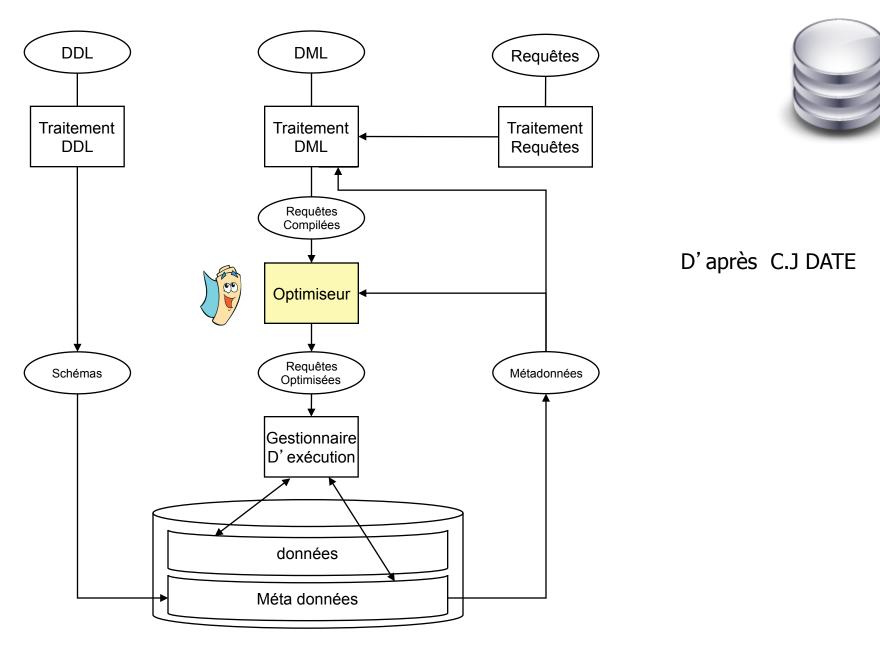




Big Picture







DDL : langage de définition des données; DML : langage de manipulation des données

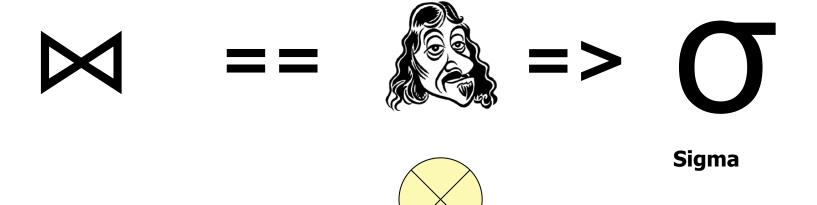
Emmanuel fuchs Conception Avancée de Bases de Données

Décomposition



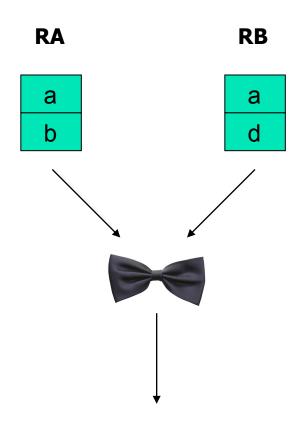
Jointure =

produit cartesien puis selection



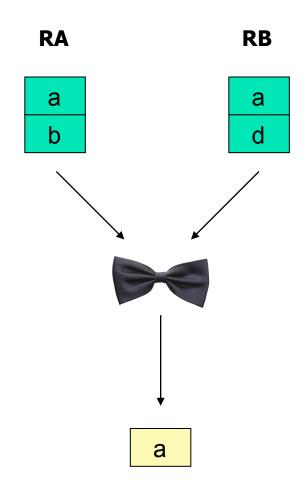
Jointure





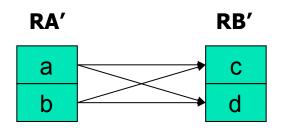
Jointure

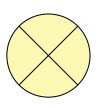




Produit Cartésien



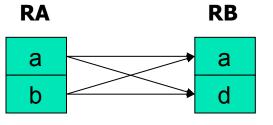






ra	rb
а	С
а	đ
q	C
b	d

Sélection

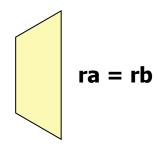






ra	rb	
a	а	
а	đ	
b	а	
b	d	







Sigma

Autre cas



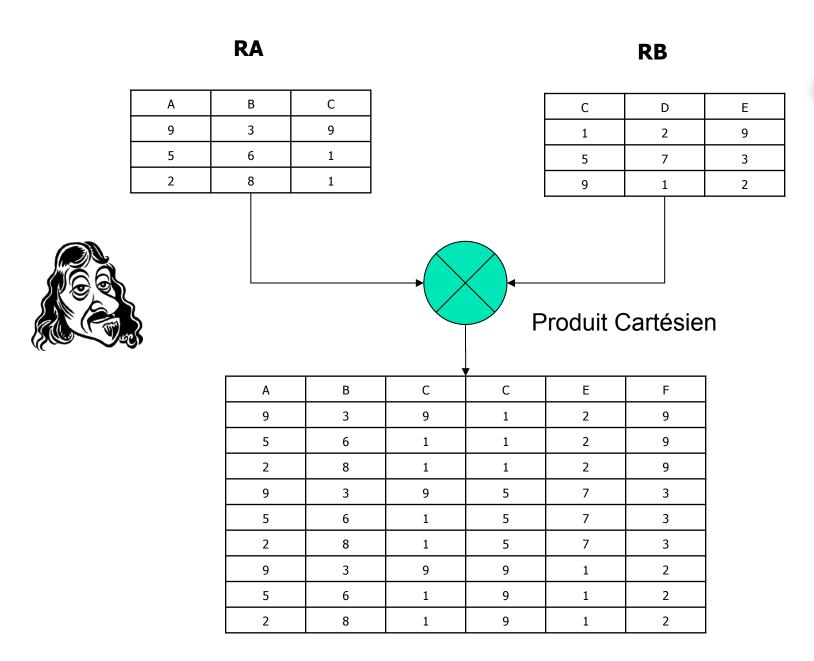
2 relations

RA

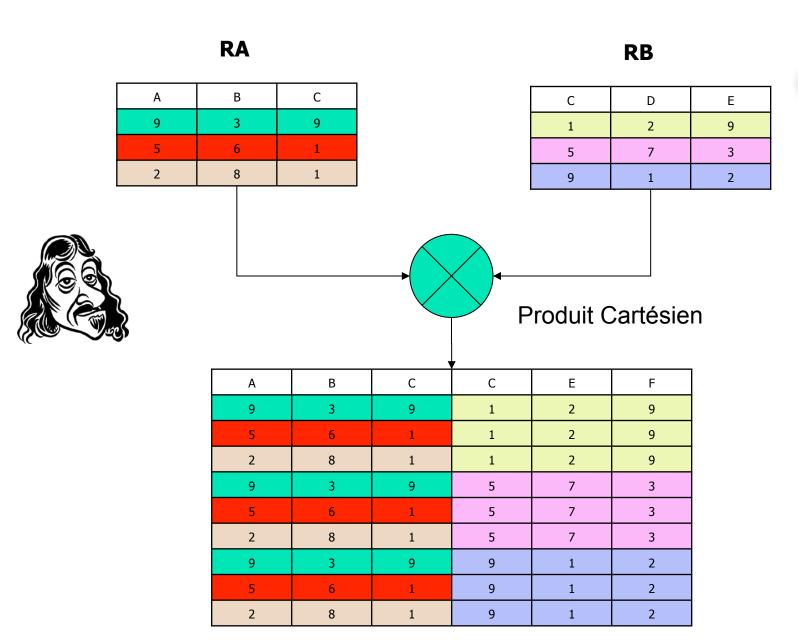
А	В	С	
9	3	9	
5	6	1	
2	8	1	

RB

С	D	E
1	2	9
5	7	3
9	1	2





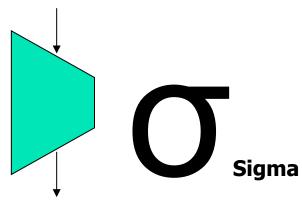




Sélection

Α	В	С	С	E	F
9	3	9	1	2	9
5	6	1	1	2	9
2	8	1	1	2	9
9	3	9	5	7	3
5	6	1	5	7	3
2	8	1	5	7	3
9	3	9	9	1	2
5	6	1	9	1	2
2	8	1	9	1	2







А	В	С	E	F
5	6	1	2	9
2	8	1	2	9
9	3	9	1	2



