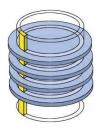
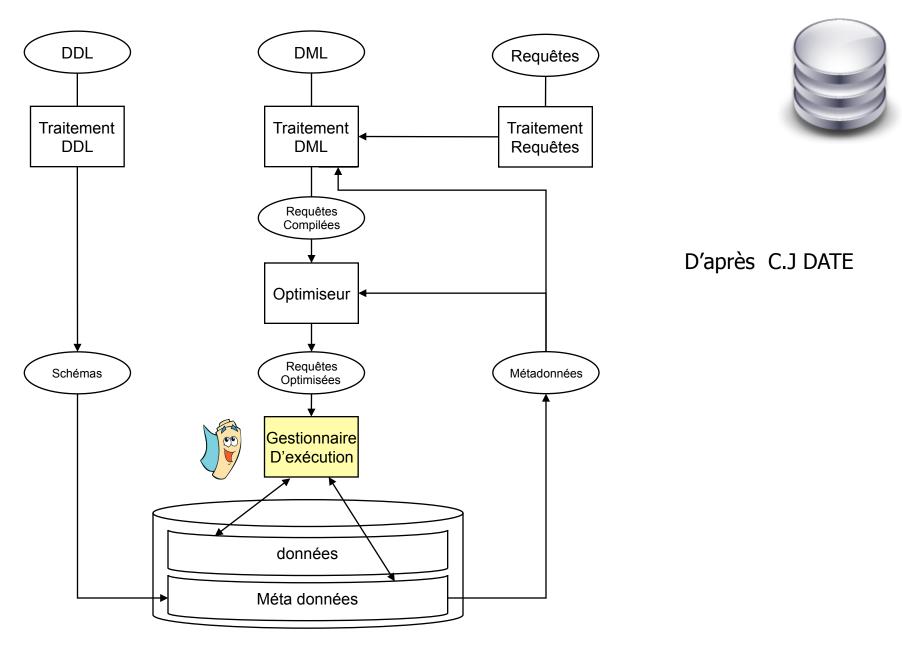


# Conception Avancée de Bases de Données

**Grace Hash Join** 

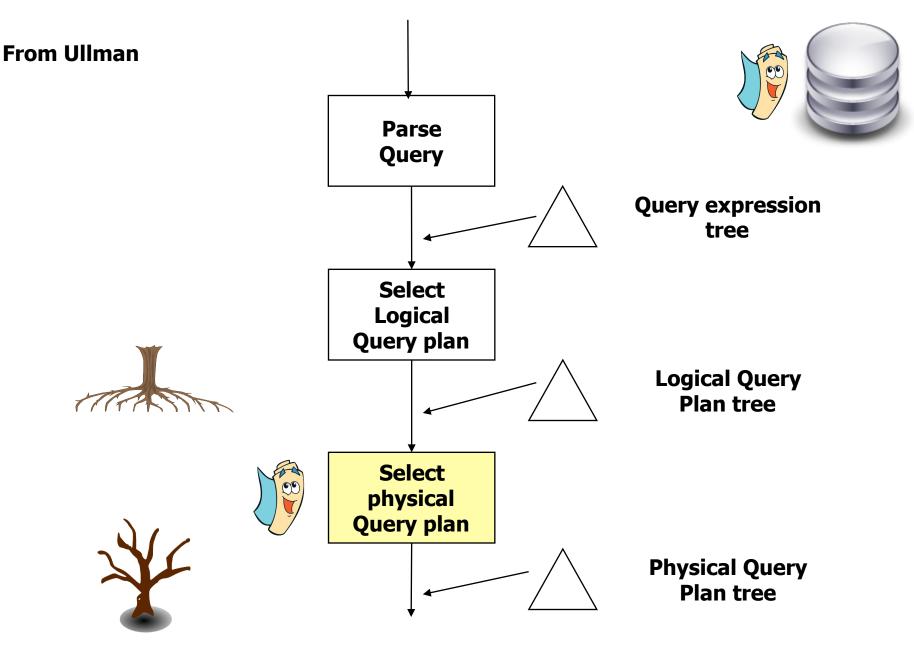






DDL : langage de définition des données; DML : langage de manipulation des données

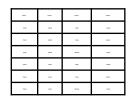
#### **Emmanuel fuchs Conception Avancée de Bases de Données**



#### Du modèle au code



#### Modèle



# **Algèbre**

 $\sigma$  owner1=owner2 (Cats  $\otimes$  Dogs ) = Cat  $\bowtie$  Dogs

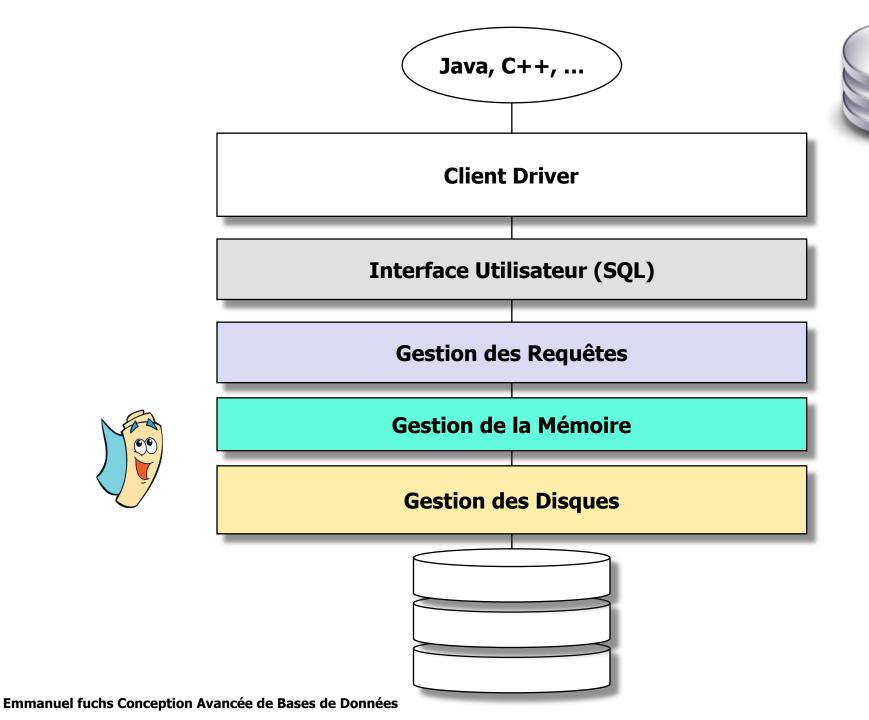


### Logiciel



Java, C++,..





#### Grace Hash join



For each tuple in (R) Hash Block Partition (r);

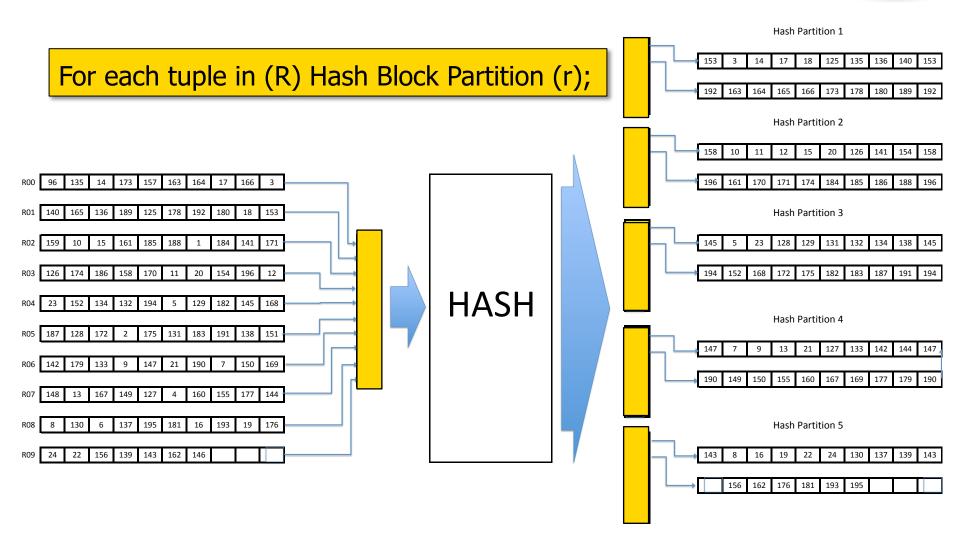
For each tuple in (S) Hash Block Partition (s);

For each Hash Block Partition Number (Rhi) and (Shi) Nested Loop Join of Rhi and Shi

End for;

# R Hash Block Partitioning

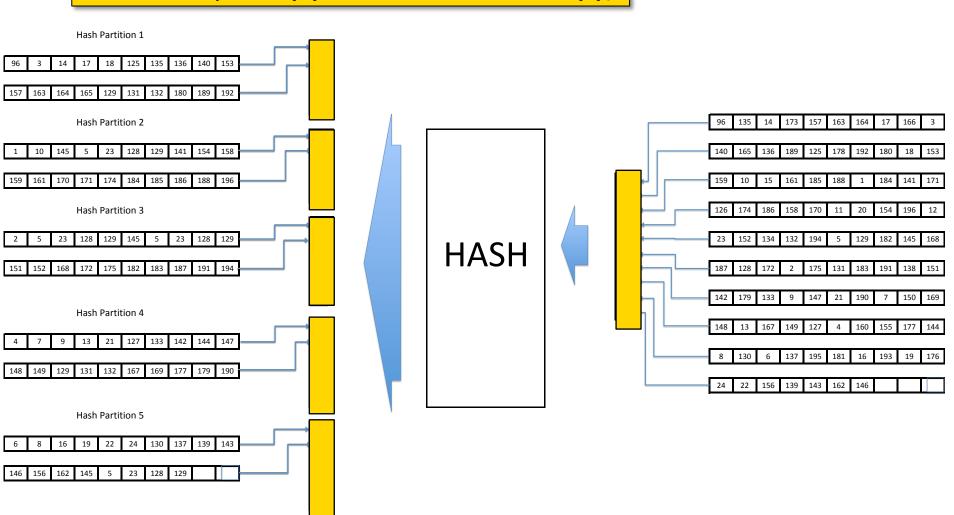




# S Hash Block Partitioning

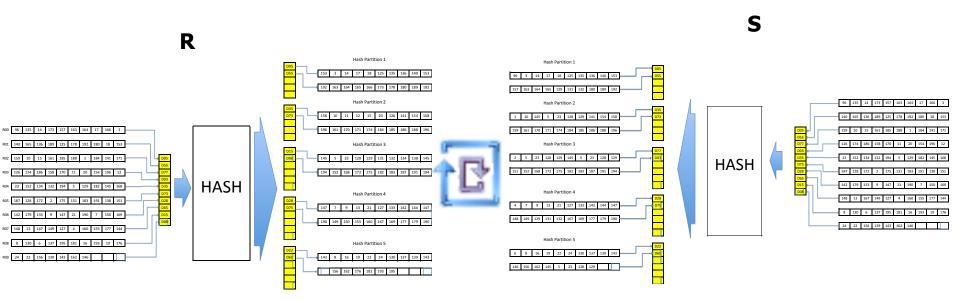


For each tuple in (S) Hash Block Partition (s);



# R S Nested loop

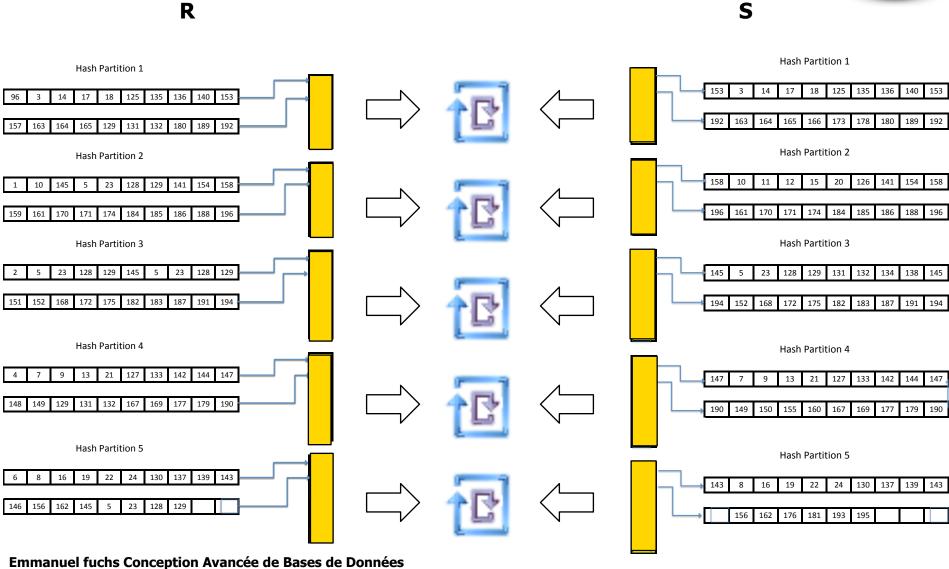




For each Hash Block Partition Number (Rhi) and (Shi) Nested Loop Join of Rhi and Shi End for;

R S





# Nested Loop Join

For each Hash Block Partition Number (Rhi) and (Shi) Nested Loop Join of Rhi and Shi

End for;

