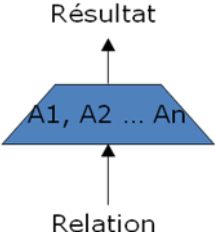
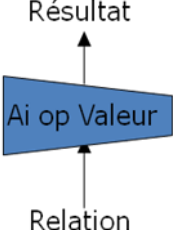
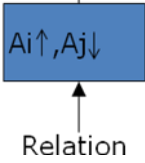
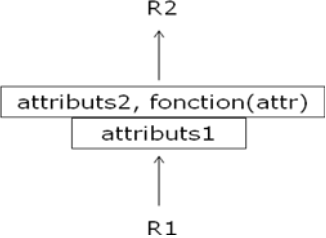
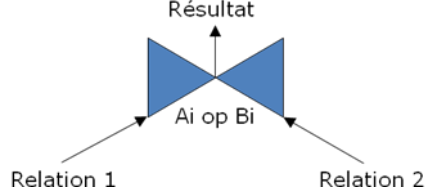
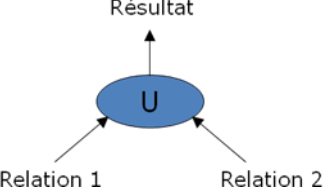
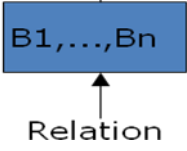


Annexe : algèbre relationnelle et arbre algébrique

<p>Projection</p>  <p>$\Pi_{A1, A2 \dots An}(\text{Relation})$</p>	<p>Restriction</p>  <p>$\sigma_{Ai \text{ op Valeur}}(\text{Relation})$</p>	<p>Tri</p>  <p>$\text{Tri}(\text{Relation}, Ai\uparrow, Aj\downarrow)$</p>	<p>Agrégat</p>  <p>$\text{attributs1}F_{\text{attributs2, fonction(attr)}}(R1)$</p>
<p>Jointures</p>  <p>$\text{Relation1} \bowtie_{Ai \text{ op } Bi} \text{Relation2}$</p> <p> \bowtie : jointure à droite \bowtie : jointure à gauche \bowtie : jointure complète </p>	<p>Opérations ensemblistes</p>  <p>$\text{Relation1} \cup \text{Relation2}$</p> <p>Autres opérateurs :</p> <p>$\cap, -, \div, \times$</p>	<p>Renommage (*)</p>  <p> $\rho_{E(B1, \dots, Bn)}(\text{Relation})$ $\rho_{(B1, \dots, Bn)}(\text{Relation})$ $\rho_E(\text{Relation})$ </p>	

(*) NB : pas de représentation sur un arbre du renommage du nom d'une relation)