

Algèbre Relationnelle

- (1) $\pi_{\text{NU}, \text{NomU}, \text{Ville}}(\text{U})$ ou U
- (2) $\sigma_{\text{Ville}='Londres'}(\text{U})$
- (3) $\pi_{\text{NF}}(\sigma_{\text{NU}=1 \wedge \text{NP}=1}(\text{PUF}))$, ou
 $\pi_{\text{NF}}(\sigma_{\text{NU}=1}(\sigma_{\text{NP}=1}(\text{PUF})))$
- (4) $\pi_{\text{NomP}, \text{Couleur}}(\text{P} *_{\text{NP}=\text{NP}} \sigma_{\text{NF}=1}(\text{PUF}))$
- (5) $\pi_{\text{NF}}(\sigma_{\text{NU}=1}(\text{PUF}) *_{\text{NP}=\text{NP}} \sigma_{\text{Couleur}='Rouge'}(\text{P}))$
- (6) $\pi_{\text{NomF}}(\text{F} * \text{PUF} * \sigma_{\text{Couleur}='Rouge'}(\text{P}) * \pi_{\text{NU}}(\sigma_{\text{Ville}='Londres' \vee \text{Ville}='Paris'}(\text{U})))$
- (7) $\pi_{\text{NP}}(\text{PUF} * \text{F} * \text{U})$
 $\pi_{\text{NP}}((\text{PUF} *_{\text{NF}=\text{NF}} \text{F}) *_{\text{NU}=\text{NU} \wedge \text{Ville}=\text{Ville}} \text{U})$
- (8) $\pi_{\text{NP}}(\text{PUF} * \sigma_{\text{Ville}='Londres'}(\text{F}) * \text{U})$
- (9) $\pi_{\text{NU}}(\sigma_{\text{Ville} \neq \text{VilleF}}(\text{PUF} * \text{U} * \alpha_{\text{Ville:VilleF}}(\text{F})))$ ou
 $\pi_{\text{NU}}(\pi_{\text{NF}, \text{NU}}(\text{PUF}) - \pi_{\text{NF}, \text{NU}}(\text{U} * \text{F}))$
- (10) $\pi_{\text{NF}}(\sigma_{\text{NU}=1}(\text{PUF})) \cap \pi_{\text{NF}}(\sigma_{\text{NU}=2}(\text{PUF}))$
- (11) $\pi_{\text{NU}}(\pi_{\text{NP}}(\sigma_{\text{NF}=3}(\text{PUF})) *_{\text{NP}=\text{NP}} \text{PUF})$