$P_{s,i}$: student s is younger than instructor i

S : finite set of all students

I : finite set of all instructors

$$\bigwedge_{s \in S} \bigvee_{i \in I} P_{s,i}$$

$S(x)$: x is a student

$I(x)$: x is an instructor

$Y(x,y)$: x is younger than y

$$\forall x \left(S(x) \rightarrow \exists y \left(I(y) \wedge Y(x,y) \right) \right)$$

$$\Big(\forall x \big(Man(x) \rightarrow Mortal(x) \big) \wedge Man(socrates) \Big)$$

$$\rightarrow Mortal(socrates)$$

$$\forall x \Big(Child(x) \rightarrow Younger(x, mother(x)) \Big)$$