

*Formula*  $\rightarrow$  *AtomicFormula*  
 $\mid$  *Formula* *Connective* *Formula*  
 $\mid$  *Quantifier* *Variable*, ... *Formula*  
 $\mid$   $\neg$  *Formula*  
 $\mid$  (*Formula*)

*AtomicFormula*  $\rightarrow$  *Predicate*(*Term*, ...)

*Term*  $\rightarrow$  *Function*(*Term*, ...)

$\mid$  *Constant*

$\mid$  *Variable*

*Connective*  $\rightarrow$   $\wedge \mid \vee \mid \implies$

*Quantifier*  $\rightarrow$   $\forall \mid \exists$

*Constant*  $\rightarrow$  *A*  $\mid$  *VegetarianFood*  $\mid$  *Maharani* ...

*Variable*  $\rightarrow$  *x*  $\mid$  *y*  $\mid$  ...

*Predicate*  $\rightarrow$  *Serves*  $\mid$  *Near*  $\mid$  ...

*Function*  $\rightarrow$  *LocationOf*  $\mid$  *CuisineOf*  $\mid$  ...