$$
\begin{aligned}
Formula &\rightarrow AtomicFormula \\
&\mid Formula\ Connective\ Formula \\
&\mid Quantifier\ Variable, \dots\ Formula \\
&\mid \neg\ Formula \\
&\mid (Formula) \\
AtomicFormula &\rightarrow Predicate(Term, \dots) \\
Term &\rightarrow Function(Term, \dots) \\
&\mid Constant \\
&\mid Variable \\
Connective &\rightarrow \wedge \mid \vee \mid \implies \\
Quantifier &\rightarrow \forall \mid \exists \\
Constant &\rightarrow A \mid VegetarianFood \mid Maharani \cdots \\
Variable &\rightarrow x \mid y \mid \cdots \\
Predicate &\rightarrow Serves \mid Near \mid \cdots \\
Function &\rightarrow LocationOf \mid CuisineOf \mid \cdots
\end{aligned}
$$