Terminologies

Translated by DLML2TEX

February 8, 2000

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\begin{aligned}
\texttt{MAN} &\dot{\leq} \texttt{PERSON} \sqcap (\neg\texttt{WOMAN}) \\
\texttt{WOMAN} &\dot{\leq} \texttt{PERSON} \sqcap (\neg\texttt{MAN}) \\
\texttt{DOG} &\dot{\leq} \texttt{ANIMAL} \sqcap (\neg\texttt{CAT}) \\
\texttt{CAT} &\dot{\leq} \texttt{ANIMAL} \\
\texttt{YOUNG} &\dot{\leq} \texttt{AGE} \\
\texttt{OLD} &\dot{\leq} (\neg\texttt{YOUNG}) \sqcap \texttt{AGE} \\
\texttt{OLDLADY} &\doteq \texttt{WOMAN} \sqcap (\forall\texttt{hasAge.OLD}) \sqcap (\forall\texttt{hasPet.CAT}) \sqcap (\exists\texttt{hasPet.}\top) \\
\texttt{DOGOWNER} &\doteq \texttt{PERSON} \sqcap (\exists\texttt{hasPet.DOG}) \\
\texttt{CATOWNER} &\doteq \texttt{PERSON} \sqcap (\exists\texttt{hasPet.CAT}) \\
\texttt{PETOWNER} &\doteq \texttt{PERSON} \sqcap (\exists\texttt{hasPet.ANIMAL}) \\
\texttt{CATHATER} &\doteq \texttt{PERSON} \sqcap (\forall\texttt{hasPet.}(\neg\texttt{CAT})) \\
\texttt{DOGHATER} &\doteq \texttt{PERSON} \sqcap (\forall\texttt{hasPet.}(\neg\texttt{DOG})) \\
\texttt{CATLIKER} &\doteq \neg\texttt{CATHATER}
\end{aligned}
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