Test : Union elem Quantifier Domain

$[UserId, SongId]$

$\begin{array}{|l}
users : \mathbb{F}\ UserId \\
songs : \mathbb{F}\ SongId \\
hated : UserId \nrightarrow \mathbb{F}\ SongId \\
loved : UserId \nrightarrow \mathbb{F}\ SongId \\
\hline
\forall\, i : \operatorname{dom} hated \cup \operatorname{dom} loved \bullet hated(i) \cap loved(i) = \varnothing
\end{array}$