Inference at $*$
of proof for Lemma dep_ax_choice:

$\vdash \forall A$:Type, B:($A \rightarrow$Type), Q:(x:$A \rightarrow B(x) \rightarrow$Type).
($\forall x$:A. $\exists y$:$B(x)$. $Q(x,y)$) $\Rightarrow$ ($\exists f$:x:$A \rightarrow B(x)$. ($\forall x$:A. $Q(x,f(x))$))
by ((UnivCD)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
)) (first_tok :t) inil_term)))·

1:

1. A : Type
2. B : $A \rightarrow$Type
3. Q : x:$A \rightarrow B(x) \rightarrow$Type
4. $\forall x$:A. $\exists y$:$B(x)$. $Q(x,y)$

$\vdash \exists f$:x:$A \rightarrow B(x)$. ($\forall x$:A. $Q(x,f(x))$)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_84395_{dep_ax_choice}.html