```
ax_choice_version2  THM

⊢  (∀x:A. ∃y:B. Q(x,y)) ⇒ (∃f:(A→B). ∀x:A. Q(x,f(x)))  by Auto
|
1. A : Type
2. B : Type
3. Q : A→B→Prop
4. ∀x:A. ∃y:B. Q(x,y)
⊢  ∃f:(A→B). ∀x:A. Q(x,f(x))
  by FwdThru:
     Thm*  (∀x:A. ∃y:B(x). Q(x,y))
           ⇒
           (∃f:(x:A→B(x)). ∀x:A. Q(x,f(x)))

         dep_ax_choice_version2
     on [ Hyp:-1 ]
END
```