```
nsub_discr_range_surjtype  THM

⊢  ∀A:Type.
|  (A Discrete)
|  ⇒
|  (∀k:ℕ, f:(ℕk→A). f ∈ ℕk onto→ {a:A| ∃i:ℕk. a = f(i) })
| by SimilarTo:
|    Thm*  (A Discrete)
|          ⇒
|          (∀k:ℕ, f:(ℕk→A).
|           {a:A| ∃i:ℕk. a = f(i) } ∈ Type
|           & f ∈ ℕk→{a:A| ∃i:ℕk. a = f(i) }
|           & Surj(ℕk; {a:A| ∃i:ℕk. a = f(i) }; f))
|    {nsub_discr_range_surj}
|    THEN
|    ExistHD Hyp:-1
|
1. A : Type
2. A Discrete
3. k : ℕ
4. f : ℕk→A
5. {a:A| ∃i:ℕk. a = f(i) } ∈ Type
6. f ∈ ℕk→{a:A| ∃i:ℕk. a = f(i) }
7. Surj(ℕk; {a:A| ∃i:ℕk. a = f(i) }; f)
⊢  f ∈ ℕk onto→ {a:A| ∃i:ℕk. a = f(i) }  by Analyze
END
```