```
inj_imp_le2  THM

⊢  ∀m,k:ℕ, f:(ℕm→ℕk). Inj(ℕm; ℕk; f) ⇒ m≤k
| by SimilarTo
|    Thm*  (∃f:(ℕm→ℕk). Inj(ℕm; ℕk; f)) ⇒ m≤k    {inj_imp_le}
|
1. m : ℕ
2. k : ℕ
3. (∃f:(ℕm→ℕk). Inj(ℕm; ℕk; f)) ⇒ m≤k
⊢  ∀f:(ℕm→ℕk). Inj(ℕm; ℕk; f) ⇒ m≤k  by Analyze
|
4. f : ℕm→ℕk
⊢  Inj(ℕm; ℕk; f) ⇒ m≤k  by SimilarTo: Hyp:3
|
5. Inj(ℕm; ℕk; f)
⊢  ∃f:(ℕm→ℕk). Inj(ℕm; ℕk; f)  by Witness: f
END
```