```
sfa_doc_reinject  THM

⊢  ∀A,B:Type, z:A+B. z = InjCase(z; u. inl(u); v. inr(v))  by UnivCD
|
1. A : Type
2. B : Type
3. z : A+B
⊢  z = InjCase(z; u. inl(u); v. inr(v))  by Analyze-1
|
|\
| 3. x : A
| ⊢  inl(x) = InjCase(inl(x); u. inl(u); v. inr(v)) ∈ A+B
| | by Reduce Concl
| |
| ⊢  inl(x) = inl(x) ∈ A+B  by Auto
|
.\
. 3. y : B
. ⊢  inr(y) = InjCase(inr(y); u. inl(u); v. inr(v)) ∈ A+B
. | by Reduce Concl
. |
. ⊢  inr(y) = inr(y) ∈ A+B  by Auto
END
```