Lemma. There is a functor FixResMaxFun: $\mathbf{DP} \to \mathbf{Pos}_{\mathscr{L}}$ which maps:

1. An object (poset) of \mathbf{DP} to the same object (poset) in $\mathbf{Pos}_{\mathscr{L}}$.

2. A morphism $\mathbf{g} \in \operatorname{Hom}_{\mathbf{DP}}(\mathbf{F}; \mathbf{R})$ to the morphism $K_{\mathbf{g}} \in \operatorname{Hom}_{\mathbf{Pos}_{\mathscr{Y}}}(\mathbf{R}; \mathbf{F})$,

where: $K_{\sigma}^{\star}: \mathbf{R} \rightarrow_{\mathbf{Pos}} \mathcal{L}\mathbf{F}$

 $K_{\mathbf{g}}^{\star}: \mathbf{R} \to_{\mathbf{Pos}} \mathcal{L}\mathbf{F}$ $r \mapsto \{f \in \mathbf{F} \mid \mathbf{g}(f^*, r)\}.$