First-Order Logic for-kl-2

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1 fol-kr-2

1.Occupation(Emily,Surgeon) $\vee$ Occupation(Emily,Lawyer)
2.Occupation(Joe,Actor) $\wedge \exists x\ x \neq$ Actor Occupation(Joe, x)
3.$\forall x$ Occupation(x,Surgeon) $\rightarrow$ Occupation(x, Doctor)
4.$\neg\exists x$ Customer(Joe, x) $\wedge$ Occupation(x, Lawyer)
5.$\exists x$ Boss(x, Emily) $\wedge$ Occupation(x, Lawyer)
6.$\exists x$ Occupation(x, Lawyer) $\wedge \forall y$ Customer(y, x) $\rightarrow$ Occupation(y, Doctor)
7.$\forall x$ Occupation(x, Surgeon) $\rightarrow \exists y$ Customer(x, y) $\wedge$ Occupation(x, Lawyer)