

Propositional Logic problems KB: $R \Rightarrow$ Alice mother of Bob R2 >> Bob father of Charlie Rz => Father is a parent Ru => Mother is a parent RS -> All parent how children R6 => It somer is parent, children are Sibling R7 2) Alia Ato married to David My pothesis! Charlie is sibling of Bob Entailment: Rob is parent $R_2, R_7 = R_8$ Let Rq: Alice is parent DRI, RT #1= 9R9

has a child, Charlie

Let R10: Bob has no Siblings R8, Rr, R2 = Rio Let RIT: Bob is Sibling to Charlie R10, R8, R6 = R11 . We can prove hypothesis as true KB = RII

