

LAB-7 Knowledgy Base Alice is the mother of bob of. Ail pasents house childen Bold is the father of Charlie to in Il sourced is a parent their children are sign 3) A father is a pasent to bavid. Py 4) A Mother is a parent 7 back Hypothosis D Charolie is a sibling of bob = Q Poemises - Logical form From landedge has 1. A-DB 1- P1: A-X3 2, 13-21 2. Pz: C-DD 3. Bz: F->P 3. F->p 4. M-SP 4. Py: M-DP 3. P-25. 3- PS: PLOCA ST 900 6. ANB -) Q.O 6. Po: 9P ->(5) (s) a 7- Py: A-31) Premise: A->Blif alice is mother of bob and Bobis fettes of Charlie) Premise ?: A 13-05 (if Alice & Bob are Parent treis children are Sibby.

Enfailmost lo if 4 (Alice is mother of bob) is tous -) B must be too (succest ->B) 2. It B is two. > c must be two (F->p) - I M must be troug (M-)p) 3. It both Africa and Bob one paroent (MIF evol tove) -> S must be touc 4. Since Sig true. 20 is toup Concision: the hypothesis "Charlie is a Sillier of by
is tool these fore true hypothesis is
entailed by the knowledge base.