Week-6 Knowledge Base 10) Alice is mother of Bodo co Bob is father & charlic (A father is a prest (1) A mother is a parent their children on sibling es Alice is married to David Hypothesis Charlie is sibling of Bob Entailment Process From the statement afather and mo is parent and " mother is parent" us can say that Alice and Bob are parents. But the statement "If someone is a pagent parals children an siblings and give it common panyt exist Since bob and charlie don't show siding Bob and charlie and siking Thus hypothusis is not entailed by knowledge have

PAGE NO Lub 7 All pholosophers are humans 2. Every human who teacher at a university is a philosopher or a spichtst 3. Some philosophers are not eighter 4. It someone teacher at university and is 5. Socrates teaches in a university to Dow Socrates work books? ta (Afrancia /7) 1. $\forall x (Philosopher(x) \rightarrow fluman(x))$ 2. $\forall x (TeachesUnivesity(x) \rightarrow Philosopher(x) \land Sientif(x))$ Fx (Philosopher(2) -> 7 (Scientistall) to (Teachy University (2) 1 Philosopher (2)) -> With Philosopher (Socartes) Teacher University (Socrates) 5 and 6 we know that Philosopher (Socretes) A Teacher Chiverity (Socrete) Thisospher (Son) & Teacher University (2) - 1 Whites Book (Secrates)