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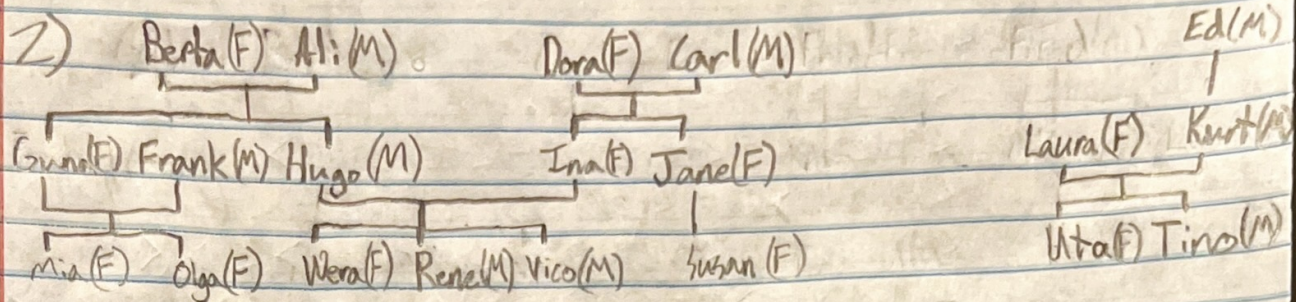
CS 210

4/5/2021

Assignment #3

1) $\langle \text{clause} \rangle ::= \langle \text{fact} \rangle \mid \langle \text{rule} \rangle$
 $\langle \text{fact} \rangle ::= \langle \text{term} \rangle .$
 $\langle \text{rule} \rangle ::= \langle \text{term} \rangle :- \langle \text{term list} \rangle .$
 $\langle \text{term list} \rangle ::= \langle \text{term} \rangle \mid \langle \text{term} \rangle, \langle \text{term list} \rangle$
 $\langle \text{term} \rangle ::= \langle \text{constant} \rangle \mid \langle \text{variable} \rangle \mid \langle \text{compound term} \rangle$
 $\langle \text{constant} \rangle ::= \langle \text{integer} \rangle \mid \langle \text{real number} \rangle \mid \langle \text{atom} \rangle$
 $\langle \text{compound term} \rangle ::= \langle \text{atom} \rangle (\langle \text{term list} \rangle)$
 $\langle \text{program} \rangle ::= \langle \text{clause} \rangle \mid \langle \text{clause} \rangle \langle \text{program} \rangle$

2) Back Side



Rules:

male (ali) ✓	female (berta) ✓
male (carl) ✓	female (dora) ✓
male (ed) ✓	female (guna) ✓
male (frank) ✓	female (ina) ✓
male (hugo) ✓	female (jane) ✓
male (kurt) ✓	female (laura) ✓
male (rene) ✓	female (mia) ✓
male (vico) ✓	female (olga) ✓
male (tino) ✓	female (wera) ✓
	female (susan) ✓
	female (uta) ✓

parent (ali, guna) ✓
 parent (ali, hugo) ✓
 parent (carl, ina) ✓
 parent (carl, jane) ✓
 parent (ed, kurt) ✓
 parent (frank, mia) ✓
 parent (frank, olga) ✓
 parent (hugo, wera) ✓
 parent (hugo, rene) ✓
 parent (hugo, vico) ✓
 parent (kurt, tino) ✓
 parent (kurt, uta) ✓

parent (berta, guna) ✓
 parent (berta, hugo) ✓
 parent (dora, ina) ✓
 parent (dora, jane) ✓
 parent (guna, mia) ✓
 parent (guna, olga) ✓
 parent (ina, wera) ✓
 parent (ina, rene) ✓
 parent (ina, vico) ✓
 parent (jane, susan) ✓
 parent (laura, tino) ✓
 parent (laura, uta) ✓