Problem 11.3 (ALC TBOX)

- primitive concepts: woman, man
- roles: has-child, has-parent, has-sibling, has-spome

Concepts are define using ALC TBOX as follows,

person = woman LI man

parent = person TI Thas_child. person

mother = woman TI = has_child. person

father = man T = has_child. person

grandmother = woman TI Zhao_child. (mother L1 father)

aunt = woman M = Thas - sibling. (mother L father)

uncle = man TI = has_sibling. (mother LI father)

sister = woman 17 Thas - sibling person

brother = man M = Thas - 5: bling . person

only child = penson M 7 = Thas - sibling. penson

cousin = person 17 Thas -parent. Thas - sibling. (mother LI father)

nephew = man M = 3has-parent. (brother L1 sister)

niece = woman 17 = has-parent. (brother LI sister)

fatheinlaw = man TI]has_child. Thas_spowe. person

motherinlaws woman TI] has_child. Thas_spome. person