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Assignment

que Build a small genealogy knowledge base using predicale 10gic that

- contains facts of immediate family relations (spouse, parely - contains definitions of more complex relations (ancestors,

relatives) - is able to answer queries about relationships between people

Apply resolution by reflectation on the following predicates of facts to answer the query (most your) of so If relative (Liz, Edwin) is true ?

- parents (x14), child (x12), father (x14), daughter (x14), etc. predicates: (grien)

spouse (214), huband (244), wife (214)

- ancestor (x14), descendant (x14)

- male (x), Female (4)

- relative (x14)

Facts:

- husband (Edwig, May), son (Bill, Edwin) - father spouse (John, Nancy), male (John), son (Mork

(mult thom)

- Father (Tom many), daughter (Linda, Tom) Henrele (Hun-

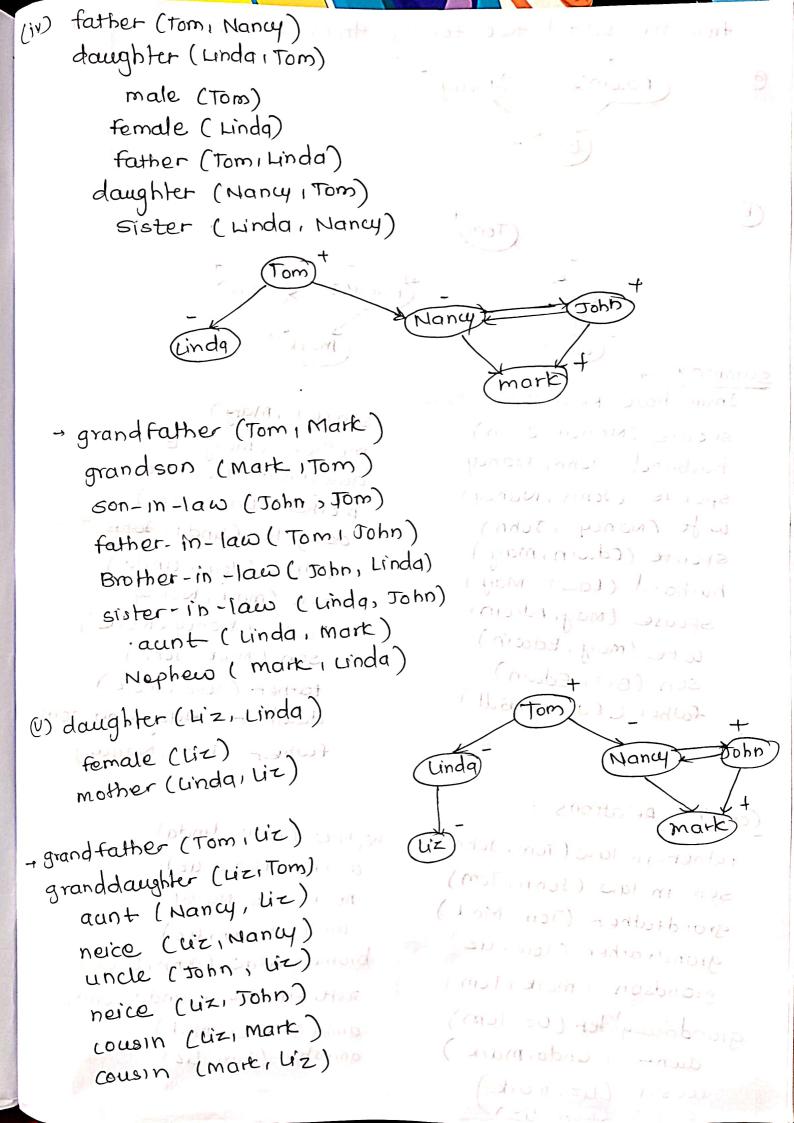
- daughter (Liz, Linda)

parent (x14): x is parent of your works) So the Relations as: child (x12): x is child of y

father (xyy): x is father ofy

Mother (x14): x & mother of y

repouse (x14): x is spouse of y husband (214): x is husband of y wife (xiy): x is wife of y son(x14): x is son of 4 Home . h was daughter (x,y): x is daughter of y Facts : 12) mortolor male + (i) husband (Edwin, May) fernale male (Edwin) (Edwin) female (may) spouse (Edwin, May) PHILIPPEN spouse (mort, Edwin) wife (may, Edwin) (ii) son (Bill, Edwin) one) cates to go male (Bill) . son (Bill, Edwin) (Edwin father (Edwin 1 Bill) parent (Edwin, Bill) wife (marj, Edwin) (HIX) stripping son (Bill, may) (iii) spouse (John, Nancy) male (John) son (mark, Nancy) Female (Nancy) husband (John, Nancy) wife (Nany, John) Manie (1 x 1) + & 1 = 1 male (mark) spouse (John, Nancy) son (mark , John)



frees (we have) from the solved too family (9) E Nancy (Linda summat -Immediate Relations: son (Bill, Mary) spouse (Nancy, John) mother (May, BII)) daughter (Liz. Linda) husband (John, Nancy) mother (unda, uz) spouse (John, Nancy) daughter (Linda, Tom) wife (Mancy > John) spouse (Edwin, may) father (Tom, Linda) husband (Edwin; mart) (Mark, Nany) spouse (may, Edwin) (Mother (Many, Mark) wife (may, Edwin) John (Mark, John) son (Bill, Edwin) father (John, Mark) father (Edwin 1 Bill) daughter (Herry Nany, Tom) father (Tom, Nancy) Complex relations: nephew (morky Linda) father-in-law (Tom, John) aunt (Nany, Uz) SON-IN-19W (John, Tom) neice (Liz, Nancy) grandfather (Tom 1 Mark) uncle 1 John, 42) grandfather (Tomiliz) brothersintaw (John, Unda) grandson (mark , Tom) sister-in-law (Linda, oohn) granddaughter (Liz. Tom) ancestor (Tom, mark) aunt (Linda, mark) ancestor (tom, uz)

(Uz mark)

(mark, liz)

cousin

cousin

Conclusion - auez relative (lizi Edwin) True?

⇒ False

There exists no direct connection between Liz & Edwin based on focus provided.