TRC queries

Problem 14: ➔

$\{p.pid, p.name \mid Person(p) \land worksfor(w) \land hasmanager(hm) \land p.city = 'Bloomington' \land p.pid = w.pid \land hm.eid = p.pid \land w.salary > 30000\}$

Problem 15: ➔

$\{p.pid, p.name \mid Person(p) \land hasmanager(hm) \land hm.eid = p.pid \land \sim(\exists\, m \in Person, \exists\, hm1 \in hasmanager(hm1.eid = p.pid \land m.city = p.city \land hm1.mid = m.pid))\}$

Problem 16: ➔

$\{p.pid, p.name, w.salary \mid Person(p) \land worksfor(w) \land w.pid = p.pid \land (\exists\, hm1 \in hasmanger, \exists\, hm2 \in hasmanger(hm1.eid = hm2.eid \land p.pid = hm1.eid \land hm1.mid \neq hm2.mid \land (\exists\, ps1 \in personskill, \exists\, ps2 \in personskill(ps1.skill \neq 'Networks' \land ps1.skill = ps2.skill \land ps1.pid = hm1.mid \land ps2.pid = hm2.mid))))\}$

Problem 17: ➔

$\{w.cname, w.salary \mid worksfor(w) \land (\exists\, wf \in worksfor(wf.cname = w.cname \land w.salary >= wf.salary \land \sim(\exists\, w2 \in worksfor(w2.salary > wf.salary \land wf.cname = w2.cname))))\}$

Problem 18: ➔

$\sim\exists\, w(worksfor(w) \land \sim(\exists\, ps1 \in personskill, \exists\, ps2 \in personskill\,(ps1.pid = ps2.pid \land ps1.pid = w.pid \land ps1.skill \neq ps2.skill))$

Problem 19: ➔

$\exists\, hm(hasmanager(hm) \land (\exists\, w1 \in worksfor, \exists\, w2 \in worksfor(w1.pid = hm.eid \land w2.pid = hm.mid \land w1.salary > w2.salaray)))$

Problem 20: ➔

$\sim\exists\, hm(hasmanager(hm) \land \sim(\exists\, w1 \in worksfor, \exists\, w2 \in worksfor(w1.pid = hm.eid \land w2.pid = hm.mid \land w1.cname = w2.cname))$