14. {(p.pid,p.pname) | student(p) ∧ hasManager(h) ∧ worksFor(w) ∧ p.city='Bloomington' ∧ w.pid=p.pid ∧ p.pid=h.eid ∧ w.salary>30000}

15. {(p.pid,p.pname) | person(p) ∧ hasManager(h) ∧ p.pid=h.eid ∧ ¬∃ p1∈person, p2∈person, h1∈hasManager(p.pid=p1.pid ∧ p1.pid=h1.eid ∧ p2.pid=h1.mid ∧ p1.city=p2.city)}

16. {(p.pid,p.pname.w.salary) | Person(p) ∧ hasManager(h) ∧ worksFor(w) ∧ p.pid=h.eid ∧ w.pid=h.eid ∧ (∃ h1 ∈ hasManager, ps1∈personSkill (h.eid=h1.eid∧h.mid<>h1.mid ∧ h.mid=ps1.pid ∧ h1.mid=ps2.pid ∧ ps1.skill<>'Networks'))}

17. {(w.cname,w.salary) | worksFor(w) ∧ ¬∃ w1∈worksFor(w.cname=w1.cname ∧ w.salary<w1.salary)}

18. ¬∃ w∈worksFor(¬ ∃ ps1∈personSkill, ps2∈personSkill(ps1.pid=w.pid ∧ ps2.pid=w.pid ∧ ps1.skill<>ps2.skill))

19. ∃ h∈ hasManager(∃ w1∈worksFor, w2∈worksFor(w1.pid=h.eid ∧ w2.pid=h.mid ∧ w1.salary>w2.salary))

20. ¬∃ h∈hasManager(¬ ∃ w1∈worksFor, w2∈worksFor(w1.pid=h.eid ∧ w2.pid=h.mid ∧ w1.cname=w2.cname))