- 6. Π p.pid,p.pname (Person \bowtie p.pid=w.pid \land w.cname='Google' worksFor Π p1.pid=k.pid1 Knows \bowtie w1.pid=k.pid2 \land w1.cname='Google' \land w.salary >w1.salary worksFor \bowtie p1.pid=k.pid2 Person1)
- 8. Π cname,pid (Π w.cname as wcname, p.pid as ppid (Person \bowtie p.pid=w.pid WorksFor) (Π cname, pid (Π w.cname as wcname,p.pid as ppid,p1.pid,w1.pid (Person \bowtie p.pid=w.pid WorksFor \bowtie w.cname=w1.cname \land

w.pid<>w1.pid WorksFor1 \bowtie p1.pid=w1.pid Person) - ($\mathbf{\Pi}$ w.cname as wcname,p.pid as ppid,p1.pid,w1.pid (Person \bowtie p.pid=w.pid WorksFor \bowtie w.cname=w1.cname \land w.pid<>w1.pid WorksFor1 \bowtie p1.pid=w1.pid Person \bowtie w.pid=k.pid2 \land w1.pid=k.pid1 Knows)))

9. $\Pi_{\text{s.skill}}(\text{Skill}) - \Pi_{\text{ps.skill}}(\text{Person} \bowtie_{\text{ps.pid=p.pid}})$ PersonSkill $\bowtie_{\text{p.pid=w.pid}} \land (\text{w.cname='Netflix'})$ worksFor)

11.III p.pid (Person \bowtie p.pid =h.mid hasManager \bowtie w.pid=h.mid worksFor \bowtie w1.pid=h.eid \land w.salary<w1.salary worksFor1) $\neq \emptyset$

- 12. \prod k.pid1,k.pid2,w.cname (Knows \bowtie k.pid2=w.pid and w.cname='Google' worksFor) \bowtie (\prod k.pid1,k.pid2,w.cname (Knows \bowtie w.pid=k.pid2 \land w.cname='Google' worksFor) \neq \varnothing
- 13. $\Pi_{pid}(Person) \subseteq \Pi_{h.eid}(hasManager \bowtie_{h.eid=k.pid1 \land_{h.mid=k.pid2}} Knows)$
- 14. $\Pi_{pid}(Person) \subseteq \Pi_{h.eid}(hasManager \bowtie_{h.eid=w1.pid} M_{h.mid=w2.pid \land w1.cname=w2.cname} worksFor2)$
- 15. $\Pi_{p.pid}$ (Person ⋈ p.pid=p1.pid ∧ p.pname Person1)=