## CMPT354

Assignment 1

1. PSmiths ( Teid ( Jename = Smith ( Employees )))

PSWorks-on (Tleid, pid (Smiths M Works-on))

O Sprojects (Teid, did (SWorks -on M Projects))

Meid, dname (Sprojects M Departments)

2. PEarls (chame -) name, supereid -> eid) (Trename, supereid (Employees)) //attiste name change for easy join Phames (chame +) sname) (Trame, ename (Earld S D) eid Employees)) // ends up with table with columns name (employee name) und sname (their syperitur name)

3. Po (ITaid (Departments))

PP(TIpid, did (Projects))

PEAND (TTeid, did ( Works - on MP)

Eard D/D

4. Ps (Tsalary (Employees))

Osz (salay > salay 2) (Ti salay (Employees))

Pss (S M salang > salang 2 S2) // now salang 2 certains all of the salang except for the mox

PMaxs (S - Tisalange (SS)) // Set difference between the 2 to get the max salary

Treid (Employees M Maxs)

- S. This query cannot be formulated in RA. To get the number of Projects we muld need an aggregate function of some sort, and the Lasic operations cannot do that
- 6. PP2(pid + pid 2, did + did2) (Trpid, did (Projects))
  PP(Trpid, did (Projects))

Th did (PM pld + piaz AND dia = didz PZ) // different project but some department