Melvin Evans
Csc 134 - 01

Assignment #3

1. EMP_SSN_IN_PROJ(SSN) ← π_{ESSN}(Works_On)
   ALL_EMP_SSN ← π_{SSN}(Employee)
   EMP_SSN_NOT_ON_PROJ ← ALL_EMP_SSN - EMP_SSN_IN_PROJ
   Result ← $\pi_{fName, lName}$(EMP_SSN_NOT_ON_PROJ * Employee)

2. PROJ_ABC ← $\sigma_{pname='ABC'}$(project)
   EMP_ABC ←Employee $\bowtie_{SSN=ESSN}$ works_on $\bowtie_{pno=pnumber}$PROJ_ABC
   EMP_WORK← $\sigma_{hours > 9}$(EMP_ABC)
   Result ← $\pi_{fName, lName}$(EMP_WORK)

3. ALL_DPT_IN_DEN ← $\sigma_{dLocation= 'Denver'}$(dept_location)
   DPT_IN_DEN ← Department $\bowtie_{dNumber=dNumber}$ ALL_DPT_IN_DEN
   Result ← π_{dName}DPT_IN_DEN

4. STEVEN_SSN ← π_{SSN}($\sigma_{lName='Miller' and fName= 'Steven'}$Employee)
   Result ← $\pi_{fNamw,lName}$(Employee $\bowtie_{superSSN=SSN}$STEVEN_SSN)