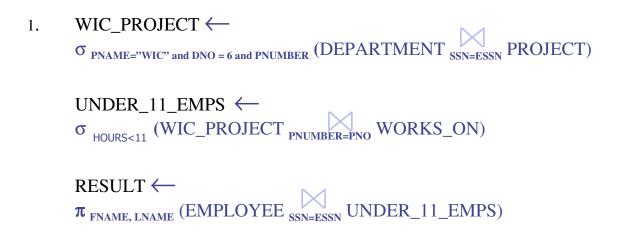
Chris Neal

Dr. Ying Jin

CSC 134

October 21st 2012

Homework 2: Relational Algebra



2. KATE_SSN \leftarrow $\pi_{SSN}(\sigma_{FNAME = "Kate" and LNAME = "Miller"}(EMPLOYEE))$ RESULT \leftarrow $\pi_{FNAME, LNAME}(KATE_SSN_{SSN=SUPERSSN}EMPLOYEE)$

3. CSC_NUM ←

 $\pi_{DNUMBER}(\sigma_{DNAME = "CSC"}(DEPARTMENT))$

 $\begin{array}{c} \text{CSC_EMPS} \longleftarrow \\ \pi_{\text{SSN}} \left(\text{CSC_NUM}_{\text{DNUMBER=DNO}} \text{EMPLOYEE} \right) \end{array}$

 $\begin{array}{c} \text{RESULT} \longleftarrow \\ \pi_{\text{ DEPENDENT_NAME}} \text{ (CSC_EMPS }_{\text{SSN=ESSN}} \text{ DEPENDENT)} \end{array}$

4. RESULT \leftarrow

 $\pi_{\text{FNAME, LNAME}}$ (DEPARTMENT $\underset{\text{MGRSSN=SSN}}{\triangleright}$ EMPLOYEE)