

Database Systems - Homework 1 Relational Algebra

Spring 2006

1 Questions 7-9

7. $\pi_{name} \sigma_{department='software'}(employee)$

8. $emp1 := employee$

$emp2 := employee$

$\pi_{emp1.name} \sigma_{emp1.manager=emp2.name \wedge (emp1.salary - emp2.salary) > 5000}(emp1 \times emp2)$

9. $ce := course$

$cm := course$

$e := employee$

$\pi_{e.name} \sigma_{e.name=ce.student \wedge e.manager=cm.student \wedge ce.grade > cm.grade \wedge ce.subj=cm.subj}(e \times ce \times cm)$