Nhat Doan\_ CSC134\_Midterm\_Question 1

1. Specify the query using relational algebra (20 points)

“John Smith” is a department manager. His department controls many projects. List the names of those projects controlled by his department.

Answer:

Manager\_SSN ← 𝝅 SSN(𝞼( FNAME= “John” , LNAME = “Smith”)( EMPLOYEE))

Department\_of\_Manager ← 𝝅 DNUMBER(DEPARTMENT ⟗MGRSSN= SSN Manager\_SSN)

Name\_of\_Projects ← 𝝅 PNAME (Department\_of\_Manager ⟗ DNUMBER = DNUM PROJECT)