ICS 424-Quiz #2 - (3%)

Time: 15 minutes

Student ID:

Student Name: _____

1. Find the best execution plan possible using heuristic optimization. (Show all your optimization steps and explain the reason behind each optimization step)

SLECET e.name FROM employee e, dept d WHERE e.dno = e.dno AND d.dname = "Research" AND e.dob "15-10-1970" AND e.dob <= "15-10-1971"; 2. Assume the following parameters of a STUDENTS table:

Number of records:100,000,000Number of data records per block:25Number of B+tree index records per block:200

If the B+tree index is based on the primary key of the STUDENTS table, what is the minimum number of disk blocks access needed to answer the following query?

SELECT count(*) FROM students;