

Query Optimization

Exercise Sheet 5

due 21.11.2006

Exercise 1

(Points)

Which of the previously discussed optimization techniques can benefit from random join tree generation? Sketch how it could be integrated into the algorithms.

(3)

Exercise 2

(Points)

Write a small program that given n number of brackets (pairs) and a rank r , produces the r -th arrangement of brackets. Preferred (not obligatory) programming language - java. Submit the code electronically, so that it can be run and tested.

(4)

Exercise 3

(Points)

One possibility to create left-deep random join trees is to first choose a relation at random and then repeatedly add a randomly chosen connected relation. What advantages and disadvantages does this algorithm have? Give concrete examples for your arguments.

(3)