



Query Optimization

3. Exercise

Due November 13, 2017, 9 AM

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Exercise 1

Give the query graphs for the two queries from the first exercise.

Exercise 2

Give an example query instance (query graph with selectivities and cardinalities) where the optimal join tree (using C_{out}) is bushy and includes a cross product. Note: the query graph should be connected!

Exercise 3

Using the program from the first exercise as a basis, implement a program that parses SQL queries, translates them into *tinydb* execution plans, and executes the query. Note: a canonical translation of the joins is fine, but push all predicates of the form $attr = const$ down to the base relations