



## Query Optimization

9. Exercise

Due January 8, 2018, 9 AM

submit via email ([radke@in.tum.de](mailto:radke@in.tum.de))

### Exercise 1

Give an example of a query graph, a rule set and a start solution where Iterative Improvement does not find the optimal solution.

### Exercise 2

1. Using the program from the previous exercises as basis, implement the Quick-Pick algorithm. Try to make it really "quick"!
2. Choose your own three example queries for the TPC-H dataset (clearly, they should have at least four joins)
3. Generate a number (say, 100) of random trees for these queries, and pick the best one. Output the cost distribution