Query Optimization

11. Exercise

Due January 22, 2018, 9 AM

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Exercise 1

Given a relation with 3 pages and two tuples per page, compute the average number of accessed pages when reading 2 tuples.

Exercise 2

Given a relation with 100 pages with 10 tuples each, plot the expected number of accessed pages when reading 1, 2, ..., 1000 tuples using Yao's formula. Also plot the approximations of Bernstein et al. and Waters.