Query Optimization

Andrey Gubichev

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Very short list:

- Logical and physical optimization. Cost functions, types of operators
- Logical optimization. Deterministic and randomized methods
  - Exact
  - Heuristics (incl. Metaheuristics)
- Physical layout of data. Basic counting. Histograms
- Misc: Subqueries, ...

▶ What is the optimality principle?

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- What are the properties that a cost function C should have so that we can apply Dynamic Programming?

Bonus

In no particular order:

- Philipp Mager
- Nhat Nam Bui and Nguyen Dinh Duy
- Valentin Hauner and André Kohn
- Atanas Mirchev
- Michele Bertoni
- Christopher Ziegler and David Becher

Subquery papers

- Won Kim.On Optimizing an SQL-like Nested Query
- `http://www.vldb.org/conf/1992/P091.PDF`

Info

Exam:

- CH 22210, Ivar-Ugi-Hörsaal
- Friday, 30.01.2015, 16:30-18:00
- No auxiliary materials