Query processing         -  1 mth

Transaction   Processing  - 1 mth

Distributed  Databases / Data Warehousing

Team project , Modify a DBMS

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Lecture 1      Overview of Query Evaluation

Objectives                        Overview of Query evaluation
  Preliminaries                                        (processing)

    - Core Processing
    - Catalog                     Evaluating SQL Queries
    - Access paths to data
    - Index matching                - Parsed, then translated to form
                                      an evaluation plan

  Query processing              Plan: Tree of R.A. Ops with alg.
                                choice for each o.p.
  - Selection

  - Projection                  Two main issues in optimization:
  - Joining                     - Enumerating Alternative plans
                                - Estimating costs and selecting
  Query optimization              best estimated Query.

  - Query plans
  - Alternative Query plans

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Techniques used in Query evaluation:


    Indexing - Using WHERE conditions to recieve tuples
    Iteration - Examining all tuples in a relation instance
    one after the other
    Partitioning - Grouping the set of input tuples in
    smaller sets