

4.10 CHOICE OF EVALUATION PLAN

A **cost-based optimizer** explores the space of all query-evaluation plans that are equivalent to the given query, and chooses the one with the least estimated cost.

4.10.1 Cost-Based Join Order Selection

4.10.2 Cost-Based Optimization with Equivalence Rules

4.10.3 Heuristics in Optimization

4.10.4 Optimizing Nested Subqueries

4.10.1 Cost-Based Join Order Selection

For a complex join query, the number of different query plans that are equivalent to the query can be large. As an illustration, consider the expression:

$$r_1 \bowtie r_2 \bowtie \dots \bowtie r_n$$

where the joins are expressed without any ordering. With $n = 3$, there are 12 different join orderings:

$$\begin{array}{cccc} r_1 \bowtie (r_2 \bowtie r_3) & r_1 \bowtie (r_3 \bowtie r_2) & (r_2 \bowtie r_3) \bowtie r_1 & (r_3 \bowtie r_2) \bowtie r_1 \\ r_2 \bowtie (r_1 \bowtie r_3) & r_2 \bowtie (r_3 \bowtie r_1) & (r_1 \bowtie r_3) \bowtie r_2 & (r_3 \bowtie r_1) \bowtie r_2 \\ r_3 \bowtie (r_1 \bowtie r_2) & r_3 \bowtie (r_2 \bowtie r_1) & (r_1 \bowtie r_2) \bowtie r_3 & (r_2 \bowtie r_1) \bowtie r_3 \end{array}$$

4.10.2 Cost-Based Optimization with Equivalence Rules

To make the approach work efficiently requires the following:

1. A space-efficient representation of expressions that avoids making multiple copies of the same sub-expressions when equivalence rules are applied.
2. Efficient techniques for detecting duplicate derivations of the same expression.
3. A form of dynamic programming based on **memoization**, which stores the optimal query evaluation plan for a sub-expression when it is optimized for the first time; subsequent requests to optimize the same sub-expression are handled by returning the already memoized plan.
4. Techniques that avoid generating all possible equivalent plans, by keeping track of the cheapest plan generated for any sub-expression up to any point of time, and pruning away any plan that is more expensive than the cheapest plan found so far for that sub-expression.

4.10.3 Heuristics in Optimization

- A drawback of cost-based optimization is the cost of optimization itself.
- Although the cost of query optimization can be reduced by clever algorithms, the number of different evaluation plans for a query can be very large, and finding the optimal plan from this set requires a lot of computational effort.
- Hence, optimizers use **heuristics** to reduce the cost of optimization.

An example of a heuristic rule is the following rule for transforming relational algebra queries:

- Perform selection operations as early as possible.
- Perform projections early.

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1. Understanding the eBook T53 Libr Choice 3 Annu
 - The Rise of Digital Reading T53 Libr Choice 3 Annu
 - Advantages of eBooks Over Traditional Books
2. Identifying T53 Libr Choice 3 Annu
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an T53 Libr Choice 3 Annu
 - User-Friendly Interface
4. Exploring eBook Recommendations from T53 Libr Choice 3 Annu
 - Personalized Recommendations
 - T53 Libr Choice 3 Annu User Reviews and Ratings
 - T53 Libr Choice 3 Annu and Bestseller Lists
5. Accessing T53 Libr Choice 3 Annu Free and Paid eBooks

- T53 Libr Choice 3 Annu Public Domain eBooks
 - T53 Libr Choice 3 Annu eBook Subscription Services
 - T53 Libr Choice 3 Annu Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - T53 Libr Choice 3 Annu Compatibility with Devices
 - T53 Libr Choice 3 Annu Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of T53 Libr Choice 3 Annu
 - Highlighting and Note-Taking T53 Libr Choice 3 Annu
 - Interactive Elements T53 Libr Choice 3 Annu
 8. Staying Engaged with T53 Libr Choice 3 Annu
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers T53 Libr Choice 3 Annu
 9. Balancing eBooks and Physical Books T53 Libr Choice 3 Annu
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection T53 Libr Choice 3 Annu
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine T53 Libr Choice 3 Annu
 - Setting Reading Goals T53 Libr Choice 3 Annu
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of T53 Libr Choice 3 Annu
 - Fact-Checking eBook Content of T53 Libr Choice 3 Annu
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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