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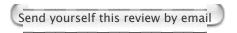## Paper #13

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Paper # 13 (Download paper of type application/pdf, 317876 bytes)	
Title:	Query Optimization
Abstract:	

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Attribute	Value
Are you finished with this review?	Finalize, I am done editing
Provide a short summary of the paper	This paper presents an overview of the role of a query optimizer, the components that make up a query processor and how data flows through a query optimizer. Once the preliminary information is finished, the paper turns its attention to two major components of any optimizer: the planner and the size-distribution estimator. The paper presents some ways that a query planner can find the cheapest query plan from a set of plans generated by the algebraic and method structure spaces. Some algorithms include the dynamic programming approach and the random access approach. The authors present algorithms as well as some examples to illustrate the methods. After discussion of the planner, the paper turns its attention to the size-distribution estimator. The size-distribution estimator aims to estimate the size and data distribution of relations and intermediate results. This section focuses mainly on the use of histogram and statistical information to aid in cost estimations.

	The discussion next turns to query processing issues related to parallel and distributed architectures, and continues with a discussion of query optimization techniques with such systems. Algorithms such as semantic query optimization (use of integrity constraints to develop cheaper and semantically equivalent plans), and parametric query optimization (optimization using unknown or estimated query parameters) are presented. The authors provide a brief summary to finalize their discussion.
What is the strength of the paper? (1-3 sentences)	This paper provides an excellent overview of query optimization techniques for a varying array of problem domains. The discussions use frequent examples to clarify, and present material in a way that is easy to understand.
What is the weakness of the paper? (1-3 sentences)	Because this paper discusses so many topics, it does not provide very much detail about any one concept. As well, algorithm performance information is missing.
Your qualifications to review this paper	I know the material, but am not an expert
Writing Quality	Good
Relevance to query processing?	I do not think this paper is relevant to query processing
Experimental Methodology	**Average**
Novelty of paper	This has been done before
Overall paper merit	**Paper is an incremental contribution with average/weak methodology. I would recommend it to someone working in the area only if they have lots of time**
In your opinion, will this paper be important over time?	Good
Provide additional detailed comments to the author	Excellent overview and presentation. The clear explanations and examples were much appreciated to convey what could potentially be difficult concepts. Please note three things: -Your paper contained several spelling and grammatical errors that make it difficult to follow certain parts. -Your discussions, while good, do not provide enough technical implementation or experimental detail. -Your discussions are missing performance details. In order to understand how well the algorithms work in practice, performance measures should have been presented along with discussions. Although you provide an excellent information base, your information has all been presented in previous papers. I do not believe it is novel enough to warrant republishing.
Additional comments to PC **(not seen by author)**	**This paper does not present any new information. Although it is a great overview as background material, I do not believe that it should be published. It is simply re-presenting old ideas that have already been published by their creators.**

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