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## Chapter 1 : Database Management Systems, 3rd Edition - Book Recommendations and Reviews

*Database Management Systems, 3rd Edition [Raghu Ramakrishnan, Johannes Gehrke] on [www.nxgvision.com](http://www.nxgvision.com) \*FREE\* shipping on qualifying offers. Database Management Systems provides comprehensive and up-to-date coverage of the fundamentals of database systems.*

Show Context Citation Context This architectural assumption had a reflection on the conceptual level, where one main viewpoint was assumed. However, most of those implementations are not portable across different architectures, because they are usually developed from scratch and target at a specific architecture. OmniDB attempts to develop an extensible query processing kernel qKernel based on an abstract model for parallel architectures, and to leverage an architecture-specific layer adapter to make qKernel be aware of the target architecture. The goal of OmniDB is to maximize the common functionality in qKernel so that the development and maintenance efforts for adapters are minimized across different architectures. In this demo, we demonstrate our initial efforts in implementing OmniDB, and present the preliminary results on the portability and efficiency. By default, our cost model does not assume the existence of cache. Our current implementation of adapters is simple, with the following major purposes. First, the adapter performs calibrations on the target architecture to obtain some important parameters Recently, a number of papers have been published showing the benefits of column stores over row stores. In this paper, we first discuss the factors that can affect the relative performance of each paradigm. Then, we choose points within each of the factors to study further. Our study examines five tables with various characteristics and different query workloads in order to obtain a greater understanding and quantification of the relative performance of column stores and row stores. We then add materialized views to the analysis and see how much they can help the performance of row stores. Finally, we examine the performance of hash join operations in column stores and row stores. Real-time databases are increasingly being used as an integral part of many computer systems. During normal operation, transactions in real-time databases must be executed in such a way that transaction timing and data time validity constraints can be met. Realtime databases must also prepare for possible failures and provide fault tolerance capability. Principles for fault tolerance in real-time databases must take timing requirements into consideration and are distinct from those for conventional databases. We discuss these issues in this paper and describe a logging and recovery technique that is time-cognizant and is suitable for an important class of real-time database applications. The technique minimizes normal runtime overhead caused by logging and has a predictable impact on transaction timing constraints. Upon a failure, the system can recover critical data to a consistent and temporally valid state within predictable time bounds. The system can then resume its major functioning, while non-critical data is being recovered in the background. Our performance evaluation via simulation shows that logging overhead has a small effect on missing transaction deadlines while adding recovery capability. Experiments also show that recovery using our approach is 3 to 6 times faster than traditional recovery. The ComputerImpute , Vol. Transaction parameters and default settings. Real-time data services can benefit data-intensive real-time applications, e. To enhance the real-time data service quality, we present several novel techniques for 1 database backlog estimation, To enhance the real-time data service quality, we present several novel techniques for 1 database backlog estimation, 2 fine-grained closedloop admission control based on the backlog model, and 3 hint-based incoming load smoothing. Our backlog estimation and feedback control aim to support the desired service delay bound without degrading the data freshness critical for real-time data services. Workload smoothing, under overload, help the database admit and process more transactions in a timely manner by probabilistically reducing the burstiness of incoming data service requests. In terms of the data service delay and throughput, our feedback-based admission control and probabilistic load smoothing considerably outperform the baselines,

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which represent the current state of the art, in the experiments performed in a stock trading database testbed. We take this approach, because our stock trading testbed mainly handles textual data whose size does not significantly vary from row to row or table to table. Thus, in this paper, the row size is Emerging byte-addressable, non-volatile memory NVM is fundamentally changing the design principle of transaction logging. It potentially invalidates the need for flush-before-commit as log records are persistent immediately upon write. Distributed logging—a once prohibitive technique for single node systems in the DRAM era—becomes a promising solution to easing the logging bottleneck because of the nonvolatility and high performance of NVM. In this paper, we advocate NVM and distributed logging on multicore and multi-socket hardware. We identify the challenges brought by distributed logging and discuss solutions. To protect committed work in NVM-based systems, we propose passive group commit, a lightweight, practical approach that leverages existing hardware and group commit. We expect that durable processor cache is the ultimate solution to protecting committed work and building reliable, scalable NVM-based systems in general. Although NVM-based logging brings improvements in latency and single-thread performance, contention for the log head still exists because of Understanding source code is vital to many tasks in software engineering. Source code querying tools are designed to help such understanding, by allowing programmers to explore relations that exist between different parts of the codebase. The contribution of such a system- named CodeQuest- is the to The contribution of such a system- named CodeQuest- is the topic of this dissertation. One of the modern source code querying and browsing tools for Java is JQuery. This popular Eclipse IDE plug-in has been an inspiration for the development of the CodeQuest project- a similar instrument, but with some fundamental differences. We shall have a closer look at JQuery, its features and implementation and compare it in various aspects with CodeQuest as we proceed. This dissertation presents a novel approach to software querying and maintenance. Its main strategy is to combine the expressive power of a logic language and scalability properties of a relational database. We shall show how such a tool can be implemented, discuss improvements and optimisations that can be applied and illustrate the advantages of this proposal by running numerous tests and comparing various performance parameters between CodeQuest and other modern querying systems. I would like to thank Mathieu Verbaere for his advice, help and friendly support; for the long hours and nights, that he has spent helping me to finish my poster before the deadline. I also want to express my gratitude to the IT manager of the St. Ian Burnell and his assistant Alex Stevens for their kind help and friendship from the very beginning of my studies in Oxford. My education in UK was funded by the Shell Oil Company and I owe them much appreciation for making one of my brightest dreams to come true. Finally, I am greatly indebted to the best parents in the whole world, whose warmest love and endless concern let me never down. Often it is not necessary to fully compute recursive relations in order to evaluate the whole query.

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