

# Scaling Oracle8i™

Building Highly Scalable OLTP System Architectures



**James Morle**

# Scaling Oracle8itm Building Highly Scalable Oltp System Architectures

**James Morle**



## **Scaling Oracle8itm Building Highly Scalable Oltp System Architectures:**

**Scaling Oracle8i** James Morle, 2000 This is the complete expert guide to building enterprise class UNIX based Oracle OLTP systems that deliver maximum performance and scalability In Scaling Oracle 8i one of the world's leading Oracle consultants introduces today's best methods and technologies for building industrial strength Oracle database systems on UNIX platforms Understand exactly what scalability means in the enterprise then discover how to deliver it step by step from the ground up through design testing construction maintenance benchmarking and ongoing management Morle covers every component that impacts performance including hashing caching hardware architecture and I/O subsystems Oracle database objects data storage memory structures and a detailed review of the Oracle Parallel Server Readers will find comprehensive coverage of tuning the underlying UNIX platform to improve OLTP response times including co engineering the kernel working with virtual memory I/O interprocess communication and more Scaling Oracle 8i contains a full chapter on the special issues associated with e commerce as well as a detailed case study drawn from one of the world's largest car rental reservations systems For all enterprise system architects database engineers and application developers working with Oracle

Scalable Transaction Processing in Cloud-native OLTP Database Systems Zhihan Guo (Ph.D.), 2023 This dissertation delves into the emerging trend of database migration to the cloud focusing on the evolution challenges and innovations in cloud native Online Transaction Processing OLTP systems With the increasing shift of businesses towards cloud databases driven by benefits like cost efficiency scalability and advanced features like fault tolerance and security there is a growing preference for Database as a Service DBaaS Initially cloud providers deployed traditional database software such as PostgreSQL and MySQL in the cloud To enhance their competitive edge in terms of cost and elasticity they introduced cloud native databases designed specifically for cloud environments A key design principle in these cloud native databases is disaggregation which involves separating components into distinct sub services for independent scaling and billing This approach improves resource utilization reduces operational costs and supports cloud deployment by reusing existing sub services Compute storage disaggregation or storage disaggregation is a prominent architecture in modern cloud native OLTP systems connecting compute and storage clusters via a network This storage disaggregation architecture presents new opportunities and challenges It allows for leveraging Storage as a Service STaaS in the cloud offered by major providers with diverse interfaces and features However it also introduces increased latency in I/O operations This necessitates a revision of traditional database designs to exploit new opportunities and address these challenges This dissertation focuses on three key aspects of transaction processing index atomic commit and concurrency control We first explore index designs in the context of storage disaggregation Introducing Bonsai a two fold index design which maintains an index in compute side memory optimized for hot data accesses while offloading cold data accesses to the index embedded in nowadays storage services Bonsai reduces network traffic and improves throughput Next we reevaluate atomic commit protocols in a partitioned

database specifically the two phase commit 2PC in a storage disaggregation architecture We propose Cornus an optimized 2PC protocol tailored for STaaS addressing its inherent latency and blocking issues Lastly we address the challenge of concurrency control in high contention scenarios a significant concern as databases migrate to the cloud We present Bamboo a pessimistic concurrency control protocol which enhances parallelism under high contention while maintaining correctness This research aims to inspire database developers to rethink traditional designs in the context of evolving cloud native OLTP databases potentially establishing new principles for next generation cloud native database systems

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