1. Record Nr. UNINA9910983032303321

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Titolo	Cloud Native Database : Principle and Practice / / by Feifei Li, Xuan Zhou, Peng Cai, Rong Zhang, Gui Huang, XiangWen Liu
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819740574 9819740576
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (244 pages)
Collana	Computer Science Series
Altri autori (Persone)	ZhouXuan CaiPeng ZhangRong HuangGui LiuXiangwen
Disciplina	004.6782
Soggetti	Information retrieval Computer architecture Database management Cloud computing Data Storage Representation Database Management System Cloud Computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Database Development Milestones -- Chapter 2. Databases and Cloud Nativeness -- Chapter 3. Architecture of Cloud-Native Databases -- Chapter 4. Storage Engine.-Chapter 5. High-Availability Shared Storage Systems -- Chapter 6. Database Cache -- Chapter 7. Computing Engine -- Chapter 8. Integration of Cloud-Native and Distributed Architectures -- Chapter 9. Practical Application of PolarDB -- Chapter 10. PolarDB O&M.
Sommario/riassunto	This book analyzes in detail the technological evolution process of databases in the era of cloud computing and explains how traditional database technology has gradually developed to cloud-native form from multiple perspectives such as architecture design, implementation

mechanism, and system optimization. This book emphasizes the full combination of theory and practice and also analyzes the SQL optimization and execution, transaction processing, caching and indexing principles of databases implemented by MySQL, PostgreSQL and other systems, what trade-offs and compromises are made in the face of actual application requirements, how to optimize in the face of complex application scenarios, and the reasons behind making various choices. At the same time, combined with Alibaba Cloud's R&D experience in the database field, this book focuses on a series of core technical principles of modern database evolution from system to service, such as the use of cloud computing resource pooling technology and distributed technology to achieve high availability, elastic expansion, and on-demand use of databases. The book is informative, combines theoretical depth and implementation details, and openly explores the new development direction of the database, which can inspire readers to think further.