A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases

Hasso Plattner

Click here if your download doesn"t start automatically

A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases

Hasso Plattner

A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases Hasso Plattner

Recent achievements in hardware and software development, such as multi-core CPUs and DRAM capacities of multiple terabytes per server, enabled the introduction of a revolutionary technology: in-memory data management. This technology supports the flexible and extremely fast analysis of massive amounts of enterprise data. Professor Hasso Plattner and his research group at the Hasso Plattner Institute in Potsdam, Germany, have been investigating and teaching the corresponding concepts and their adoption in the software industry for years.

This book is based on an online course that was first launched in autumn 2012 with more than 13,000 enrolled students and marked the successful starting point of the openHPI e-learning platform. The course is mainly designed for students of computer science, software engineering, and IT related subjects, but addresses business experts, software developers, technology experts, and IT analysts alike. Plattner and his group focus on exploring the inner mechanics of a column-oriented dictionary-encoded in-memory database. Covered topics include - amongst others - physical data storage and access, basic database operators, compression mechanisms, and parallel join algorithms. Beyond that, implications for future enterprise applications and their development are discussed. Step by step, readers will understand the radical differences and advantages of the new technology over traditional row-oriented, disk-based databases.

In this completely revised 2nd edition, we incorporate the feedback of thousands of course participants on openHPI and take into account latest advancements in hard- and software. Improved figures, explanations, and examples further ease the understanding of the concepts presented. We introduce advanced data management techniques such as transparent aggregate caches and provide new showcases that demonstrate the potential of in-memory databases for two diverse industries: retail and life sciences.

Download and Read Free Online A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases Hasso Plattner

---

From reader reviews:

Brent Thompson:

Book is usually written, printed, or created for everything. You can understand everything you want by a reserve. Book has a different type. As it is known to us that book is important matter to bring us around the world. Close to that you can your reading ability was fluently. A e-book A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases will make you to always be smarter. You can feel considerably more confidence if you can know about every thing. But some of you think that open or reading any book make you bored. It's not make you fun. Why they might be thought like that? Have you looking for best book or suitable book with you?

Jennifer Games:

The e-book untitled A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases is the book that recommended to you to study. You can see the quality of the reserve content that will be shown to anyone. The language that author use to explained their ideas are easily to understand. The copy writer was did a lot of research when write the book, hence the information that they share for your requirements is absolutely accurate. You also could possibly get the e-book of A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases from the publisher to make you a lot more enjoy free time.

Meredith Daugherty:

Is it anyone who having spare time then spend it whole day by watching television programs or just laying on the bed? Do you need something new? This A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases can be the respond to, oh how comes? It's a book you know. You are consequently out of date, spending your spare time by reading in this brand-new era is common not a geek activity. So what these guides have than the others?

Morgan Lytle:

What is your hobby? Have you heard this question when you got college students? We believe that that issue was given by teacher to the students. Many kinds of hobby, Every person has different hobby. And you know that little person like reading or as examining become their hobby. You should know that reading is very important along with book as to be the factor. Book is important thing to add you knowledge, except your own teacher or lecturer. You see good news or update with regards to something by book. Numerous books that can you choose to use be your object. One of them is actually A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases.

Download and Read Online A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases Hasso Plattner #QVFZ6C8HRPB

Read A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases by Hasso Plattner for online ebook

A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases by Hasso Plattner Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases by Hasso Plattner books to read online.

Online A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases by Hasso Plattner ebook PDF download

A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases by Hasso Plattner Doc

A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases by Hasso Plattner Mobipocket

A Course in In-Memory Data Management: The Inner Mechanics of In-Memory Databases by Hasso Plattner EPub