

OCTOBER 4TH, 2006

MASTER CLASS

WITH CHRIS DATE



**DAMA International
Global Chapter**

Contact: finance@damaglobal.org

About this Seminar:

Don't miss this opportunity to spend a day with industry leader Chris Date and learn the secrets to Dropping ACID, Nullology: the study of the empty set, Data Redundancy, and Database Graffiti.

Chris's unique perspective and a new look at databases and transactions will leave you asking for more. This master class is offered in an attempt to improve our understanding of some of the issues that lie at the very foundations of our field.

Here are some questions that any database professional should be able to answer almost without thinking:

- ▶ What is the most important property a database should possess?
- ▶ When should integrity constraints be checked?
- ▶ What are the ACID properties of a transaction?
- ▶ What happens if the set under consideration happens to be empty?
- ▶ How can orthogonality help?

This seminar provides the answers to these and many related questions. The intent is to help true database professionals understand the relational model in depth and make use of that understanding in their day-to-day database activities.

Topic Outline:

Dropping ACID

- ▶ Exploring the nice acronym ACID, the concepts it represents, and how they stand up to a closer examination
- ▶ What are the ACID properties of a transaction?
- ▶ What exactly is a database?

Nullology: The Zen of Database?

- ▶ Relations with no tuples
- ▶ Relations with no attributes
- ▶ Empty lists of operands
- ▶ Empty heading partitions
- ▶ Empty determinants and empty keys
- ▶ Empty types (domains)

Data Redundancy and Database Design

- ▶ A closer look at normalization
- ▶ A new normalization principle?
- ▶ Horizontal decomposition
- ▶ Orthogonality
- ▶ Miscellaneous design issues

Database Graffiti

- ▶ The prehistoric era
- ▶ Objects and objections
- ▶ Normalization, networks, and nulls
- ▶ The role of simplicity
- ▶ The joy of self-reference

About this Expert Speaker:

C.J. Date is an independent author, lecturer, researcher, and consultant, specializing in relational database technology. He is best known for his book *An Introduction to Database Systems* (eighth edition, Addison-Wesley, 2004), which has sold some 725,000 copies and is used by several hundred colleges and universities worldwide. Mr. Date enjoys a reputation that is second to none for his ability to communicate complex technical subjects in a clear and understandable fashion. He is also the author of many other books on database management including most recently:

- ▶ *Databases, Types, and the Relational Model: The Third Manifesto* (co-authored with Hugh Darwen)
- ▶ *Database In Depth: Relational Theory for Practitioners*
- ▶ *Temporal Data and the Relational Model* (co-authored with Hugh Darwen and Nikos Lorentzos)

Event Location:

Nike World Headquarters / Nolan Ryan Building 3
Beaverton
(See website for link to map.)

Register online at www.damaglobal.org

Sign up on or before September 7th for a **discounted** rate:

DAMA Members\$95
Non-Members\$145

After Thursday, September 7th:

DAMA Members\$145
Non-Members\$195

Faculty and full-time students may register at the DAMA member rate.