

Contents

<i>Contributors</i>	<i>ix</i>
<i>Preface</i>	<i>xi</i>

QUERY LANGUAGES

How About Recently? (English Dialog with Relational Data Bases Using Rendezvous Version 1) <i>E. F. Codd</i>	3
Design Aspects of the Query-by-Example Data Base Management Language <i>Moshé M. Zloof</i>	29
Minisquel—Relational Data Management System <i>Nancy D. Anderson and Walter A. Burkhard</i>	57
A Study of Three Database Query Languages <i>David Greenblatt and Jerry Waxman</i>	77
The Extended Relational Algebra, a Basis for Query Languages <i>T. H. Merrett</i>	99

SIMPLIFYING DESIGN AND IMPLEMENTATION

An Implementation of Foral Using IDMS <i>Daniel Goldschmidt and Allen Reiter</i>	131
Design and Performance Tools for Improving Database Usability and Responsiveness <i>James P. Fry and Toby J. Teorey</i>	151

DATA QUALITY, INTEGRITY, AND SECURITY

An Authorization Mechanism for a Data Base <i>Joel Arditi and Eli Zukovsky</i>	193
Type Concepts for Database Definition <i>Joachim W. Schmidt</i>	215

Database Consistency and Integrity in a Multi-User Environment <i>Michael F. Challis</i>	245
---	-----

IMPROVING PERFORMANCE

Performance Consideration in Relational Data Base Design <i>E. L. Lozinskii</i>	273
Representing Data Bases in Segmented Name Spaces <i>Virgil Gligor and David Maier</i>	295
Storage Allocation for Access Path Minimization in Network Structured Data Bases <i>Johann P. Malmquist, Ehud Gudes, and Edward L. Robertson</i>	319

DISTRIBUTED SYSTEMS

Multistage Data Definition in a Multicomponent DBMS Architecture <i>T. William Olle</i>	343
An External Schema Facility to Support Data Base Update <i>Eric K. Clemons</i>	371
Comparison of Different Access Strategies in a Distributed Database <i>G. Pelagatti and F. A. Schreiber</i>	399
Event Driven Protection for Enhancing Data Sharing in Data Base Systems <i>David Cohen and Ming T. Liu</i>	411

