

UPCOMING TITLE

DB2 9 for Developers

COVERS V9

DB2 9 hybrid data server is a major release including totally new features, most notably XML capabilities. This book will be the primary source for DB2 developers and DBAs as they implement DB2 9. The book shows how IBM has integrated native XML into the DB2 engine and gives developers and DBAs a detailed roadmap for implementing and exploiting the new native XML data type and integrated XML capabilities.

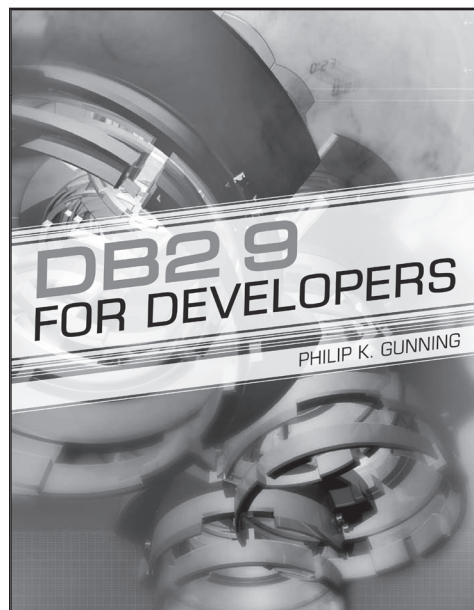
This book is packed with the information that DB2 developers and DBAs will need to know when implementing V9. The author covers upgrading from prior releases of DB2, conversion of relational data to XML data, and DB2 support of industry standard schemas. He shows developers how to develop DB2 XML applications, how to design an XML database, and how to tune the DB2 XML hybrid database.

Because the book is written by an "in-the-trenches" consultant, readers will find this book full of practical advice. Gunning shares implementation details and gives best practices advice. He includes practical details on the enhancements and features of the new release and describes the process for implementing them. He provides detailed examples and useful scripts. DB2 optimization of SQL and XML is discussed in detail. He also includes import and export utilities that readers will be able to use in their own installations.

This book includes performance considerations and tuning recommendations to help application developers and DBAs develop and maintain high-performance databases with DB2 9. It offers examples and recommendations from the hands-on experience of a top DB2 consultant. This book goes beyond the manuals and certification guides and teaches the "why" and "how" of a well-designed and well-implemented DB2 database.

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Book Highlights:

> With This Book You Will

Discover new DB2 9 features such as the DB2 XML Hybrid Engine, data server, pureXML™, XQuery, Xpath and the XDM data model

Learn how to develop top-performing DB2 XML applications using XQuery and Xpath

Understand when to use an XML database design versus a relational database design

Learn how to import/export XML data and convert applications to use DB2 9 native XML data type

Specifications:

- > **550 pages (Estimated)**
- > **Category: Database Management & Development**
- > **Level: Novice to intermediate**
- > **Audience: DB2 Developers, DB2 Database Administrators, Data Architects, IT Managers**
- > **ISBN: 1-58347-071-9**

About the Author

Philip K. Gunning is the principal of Gunning Technology Solutions which provides DB2 consulting to firms throughout North America and Europe. He is an internationally acclaimed consultant, author, and lecturer. He is active in IDUG, the International DB2 User Group, currently serving on the Solutions Journal Editorial Board and is the former list owner of IDUG's worldwide DB2 list server. He is an adjunct professor at Alvernia College, where he teaches database topics. Phil has been a DB2 technical advisor to several software companies. Phil is the author of *DB2 Universal Database Handbook for Windows, UNIX, and Linux* as well as an IBM Redbook on DB2 Performance.

- > **1. What's New**
 - The DB2 Hybrid-XML Engine
 - Application Development Enhancements
- > **2. DB2 9, Which Version is for You**
 - Enterprise Server Edition
 - DB2 Workgroup Server Edition (WSE)
 - DB2 Personal Edition (PE)
 - DB2 Express
 - DB2 Information Integration
 - DB2 Universal Developers Edition (UDE)
 - DB2 Personal Developers Edition (PDE)
 - DB2 Data Warehouse Edition
 - DB2 Intelligent Miner Products
 - Separately Priced Options
 - Compression Option
 - Performance Option
- > **3. The DB2 XML Evolution and Revolution**
 - Why pureXML?
 - Native XML versus Non-native
 - The DB2 XML Hybrid Engine Architecture
 - Single Query Flow
- > **4. XML Essentials**
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 - XQuery
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 - XML Schema Evolution
 - XML Full Text Search
- > **5. Developing DB2 XML Applications**
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 - XML Application Development Tools
 - XML, Stored Procedures and Triggers
 - XML Scripts
 - Performance Tips and Techniques
- > **6. Service Oriented Architecture (SOA), Web Services and XML**
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 - SOA Application Examples
- > **7. XML Database Design – Designing a DB2 Hybrid Database**
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 - Multiple XML Versions
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 - Recommendations and Examples
 - Shred or Not To Shred
- > **8. XML Indexing**
 - XPath Indexing Tips and Techniques
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 - Using Namespace
- > **9. Database Administration**
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 - Import Performance Tips and Techniques
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 - Optimization Class Tips and Techniques
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 - Changing the Optimization Class
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 - SQL Predicate Coding Best Practices with Examples
- > **11. Tuning the DB2 XML Hybrid Database**
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 - SQL, XML Performance Indicators
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 - 64-Bit Considerations
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 - Definition, Tips and Techniques
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 - MAXAGENTS
 - MAXCAGENTS
 - MAXAPPLS
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- > **12. Tuning SQL/XML Queries**
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 - DB2 Explain
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 - Examples and Queries
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- General Consideration for Write-to-Table Event Monitors
- > **14. High Availability**
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 - Heartbeat detection
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 - Failing back to primary
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- > **15. Problem Determination**
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- > **Appendix B: DB2 SQL/XML Limits**



About MC Press

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