

Database technology articles

This section offers a more in-depth view of the Firebird/InterBase® database and how it functions.

IBExpert & Firebird/InterBase®

- Import & export using IBExpert (1)
- Import & export using IBExpert (2)
- Firebird replicated
- Distributed applications with Firebird
- Using IBExpert and Delphi applications in a Linux environment, accessing Firebird
- Bidirectional replication for InterBase and Firebird

The Firebird/InterBase® server

- Firebird Classic server versus Superserver
- Space management in InterBase
- Garbage collectors
- Optimize database cache utilization to improve database performance
- Selecting the right datatype to improve database performance
- The Firebird server and VARCHARs
- Record versions as an undo log
- Request handles
- Multi-generational architecture and record versioning
- Multi-version concurrency control
- Tracking down crashes on Win32 systems
- Tracking down crashes on Linux
- Database corruption
- How to analyse and repair a corrupted database
- Transaction options explained
- The mystery of RDB\$DB_KEY
- How to lock a record in InterBase/Firebird
- Conceptual architecture for InterBase/Firebird
- High-level description of the InterBase 6.0 source code
- A cut out and keep guide to the Firebird source code

Firebird/InterBase® character sets & collations

- character-sets-and-unicode-in-firebird
- Convert your Firebird applications to Unicode

Working with Firebird/InterBase®

- Generic triggers for InterBase?
- InterBase, Firebird and Blobs - a technical overview

- Stream blobs
- Declarative referential integrity versus triggers
- How to write an internal UDF function
- Using descriptors with UDFs
- Creating UDFs in Delphi
- Implementing a Soundex function

Firebird/InterBase® ODS (On Disk Structure)

- Structure of a header page
- Structure of a data page
- Where do data pages come from?
- Firebird for the database expert: episode 1 - Indexes
- Firebird for the database expert: episode 2 - Page types
- Firebird for the database expert: episode 3 - On disk consistency
- Firebird for the database expert: episode 4 - OAT, OIT and sweep
- Firebird for the database expert: episode 5 - Locking and record versions

Database development

- Database design and database normalization
- Enterprise-wide data model
- Firebird databases as the back-end to enterprise software systems

Miscellaneous database articles

- Choosing a file system on Linux for Firebird
- Beginners' guide to Firebird and PHP
- Using Apache, PHP and InterBase to develop websites
- InterBase and Java: making the connection
- InterBase and Java: storing and retrieving BLOB data
- Java UDF functional specification
- Using Firebird with Open Office and Windows
- Migration from MS SQL to Firebird

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