

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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