

Firebird 2.0 language reference update

Everything new in Firebird SQL since InterBase 6 **Paul Vinkenoog et al.** 9 December 2010, document version 1.0 — covers Firebird 2.0–2.0.6

Introduction

[Introduction](#)

Reserved words and keywords

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Miscellaneous language elements

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Data types and subtypes

[Data types and subtypes](#)

DDL statements

- [ALTER DATABASE](#)
- [ALTER DOMAIN](#)
- [ALTER EXTERNAL FUNCTION](#)
- [ALTER PROCEDURE](#)
- [ALTER SEQUENCE](#)
- [ALTER TABLE](#)
- [ALTER TRIGGER](#)
- [COMMENT](#)
- [CREATE DATABASE](#)
- [CREATE DOMAIN](#)
- [CREATE EXCEPTION](#)
- [CREATE GENERATOR](#)
- [CREATE INDEX](#)
- [CREATE OR ALTER EXCEPTION](#)
- [CREATE OR ALTER PROCEDURE](#)
- [CREATE OR ALTER TRIGGER](#)
- [CREATE PROCEDURE](#)
- [CREATE SEQUENCE](#)

- [CREATE TABLE](#)
- [CREATE TRIGGER](#)
- [CREATE VIEW](#)
- [RECREATE TRIGGER](#)
- [CREATE VIEW](#)
- [DECLARE EXTERNAL FUNCTION](#)
- [DECLARE FILTER](#)
- [DROP GENERATOR](#)
- [DROP PROCEDURE](#)
- [DROP SEQUENCE](#)
- [DROP TRIGGER](#)
- [RECREATE VIEW](#)
- [REVOKE ADMIN OPTION](#)
- [SET GENERATOR](#)

DML Statements

- [DELETE](#)
- [EXECUTE BLOCK](#)
- [EXECUTE PROCEDURE](#)
- [INSERT](#)
- [SELECT](#)
- [UPDATE](#)

Transaction control statements

- [RELEASE SAVEPOINT](#)
- [ROLLBACK](#)
- [SAVEPOINT](#)
- [SET TRANSACTION](#)

PSQL Statements

- [BEGIN ... BLOCKS](#) may be empty
- [BREAK](#)
- [CLOSE](#) cursor
- [DECLARE](#)
- [EXCEPTION](#)
- [EXECUTE PROCEDURE](#)
- [EXIT](#)
- [FETCH](#) cursor
- [FOR EXECUTE STATEMENT ... DO](#)
- [FOR SELECT INTO ... DO](#)
- [LEAVE](#)
- [OPEN](#) cursor

- PLAN allowed in trigger code
- UDFs callable as void functions
- WHERE CURRENT OF valid again for view cursors

Context Variables

- current_connection
- CURRENT_ROLE
- CURRENT_TIME
- CURRENT_TIMESTAMP
- CURRENT_TRANSACTION
- CURRENT_USER
- DELETING
- GDSCODE
- INSERTING
- NEW
- 'NOW'
- OLD
- ROW_COUNT
- SQLCODE
- UPDATING

Operators and predicates

- ALL
- ANY / SOME
- IN
- IS [NOT] DISTINCT FROM
- NEXT VALUE FOR
- NULL literals allowed as operands
- SOME
- || (string concatenator)

Internal Functions

- BIT_LENGTH()
- CAST()
- CHAR_LENGTH(), CHARACTER_LENGTH()
- COALESCE()
- EXTRACT()
- GEN_ID()
- IIF()
- LOWER()
- NULLIF()
- OCTET_LENGTH()

- [RDB\\$GET_CONTEXT\(\)](#)
- [RDB\\$SET_CONTEXT\(\)](#)
- [SUBSTRING\(\)](#)
- [TRIM\(\)](#)
- [UPPER\(\)](#)

External functions

- [addDay](#)
- [addHour](#)
- [addMillisecond](#)
- [addMinute](#)
- [addMonth](#)
- [addSecond](#)
- [addWeek](#)
- [addYear](#)
- [ascii_char](#)
- [dow](#)
- [dpower](#)
- [getExactTimestamp](#)
- [i64round](#)
- [i64truncate](#)
- [log](#)
- [lower](#)
- [lpad](#)
- [ltrim](#)
- [*nullif](#)
- [*nvl](#)
- [rand](#)
- [right](#)
- [round, i64round](#)
- [rpad](#)
- [rtrim](#)
- [sdow](#)
- [srand](#)
- [sright](#)
- [string2blob](#)
- [strlen](#)
- [substr](#)
- [substrlen](#)
- [truncate, i64truncate](#)

Appendix A: Notes

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Appendix B: Document history

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Appendix C: License notice

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