

Database type mapping comparison between FireDAC and ZEOS for Sqlite database (Delphi/Pascal language)

	FireDAC Sqlite Typedef	FireDAC type enum	Zeos Sqlite Typedef	Zeos TZSQLType	Delphi TfieldType	Fieldtype	Size
INTEGER	BYTE, UINT8	dtByte			ftByte	TByteField	1
	TINYINT, SHORTINT, INT8 [UNSIGNED]	dtSByte, dtByte			ftShortInt	TShortInt	1 signed
	BIT, BOOL, BOOLEAN, LOGICAL, YESNO	dtBoolean	BOOLEAN	stBoolean	ftBoolean	TBooleanField	2
	SMALLINT, INT16 [UNSIGNED]	dtInt16, dtUInt16	TINYINT	stByte	ftSmallInt	TSmallIntField	2 signed
	WORD, UINT16, YEAR	dtUInt16	SMALLINT	stSmall	ftSmallInt	TSmallIntField	2
	MEDIUMINT, INTEGER, INT, INT32 [UNSIGNED]	dtInt32, dtUInt32	INTEGER, MEDIUMINT	stInteger	ftInteger	TIntegerField	4 signed
	LONGWORD, UINT32	dtUInt32			ftLongWord	TLongWordField	4
	BIGINT, INT64, COUNTER, AUTOINCREMENT, IDENTITY [UNSIGNED]	dtInt64, dtUInt64	BIGINT	stLong,	ftLargeInt	TLargeIntField	8 signed
DECIMAL, DEC, NUMERIC, NUMBER [UNSIGNED] [(P, S)]	dtSByte, dtInt16, dtInt32, dtInt64			ftLargeInt	TLargeIntField	8	
LONGLONGWORD, UINT64	dtUInt64			ftLargeInt	TLargeIntField	8	
FLOAT	SINGLE [PRECISION] [(P, S)]	dtSingle, dtBCD, dtFmtBCD	REAL	stFloat	ftSingle	TSingleField	4
			FLOAT	stFloat	ftSingle	TSingleField	4
			NUMERIC	stDouble	ftFloat	TFloatField	8
			DECIMAL	stDouble	ftFloat	TFloatField	8
	REAL, FLOAT, DOUBLE	dtDouble	NUMBER	stDouble	ftFloat	TFloatField	8
MONEY, SMALLMONEY, CURRENCY, FINANCIAL [(P, S)]	dtCurrency	DOUBLE	stDouble,	ftFloat	TFloatField	8	
				ftCurrency	TCurrencyField	8	
STRING	CHAR, CHARACTER [(L)]	dtAnsiString, Len = L, Attrs = [caFixedLen]	CHAR	stString	ftString	TStringField	
	VARCHAR, VARCHAR2, TYNITEXT, CHARACTER VARYING, CHAR VARYING [(L)]	dtAnsiString, Len = L			ftString	TStringField	
	ROWID, _ROWID_, OID	dtInt64			ftWideString	TWideStringField	
	NCHAR, NATIONAL CHAR, NATIONAL CHARACTER [(L)]	dtWideString, Len = L, Attrs = [caFixedLen]	VARCHAR	stUnicodeString	ftWideString	TWideStringField	
	NVARCHAR, NVARCHAR2, NATIONAL CHAR VARYING, STRING [(L)]	dtWideString, Len = L			ftWideString	TWideStringField	
	BLOB, MEDIUMBLOB, IMAGE, LONGBLOB, LONG BINARY, LONG RAW, LONGVARBINARY, GENERAL, OLEOBJECT, TINYBLOB	dtBlob	BLOB	stBinaryStream	ftBlob	TBlobField	
	MEDIUMTEXT, LONGTEXT, CLOB, MEMO, NOTE, LONG, LONG TEXT, LONGCHAR, LONGVARCHAR, TINYTEXT	dtMemo			ftMemo	TMemoField	
	TEXT, NTEXT, WTEXT, NCLOB, NMEMO, LONG NTEXT, LONG WTEXT, NATIONAL TEXT, LONGWCHAR, LONGWVARCHAR, HTML	dtWideMemo	TEXT	stUnicodeStream	ftWideMemo	TWideMemoField	
	RAW, TYNIBLOB, VARBINARY, BINARY, BINARY VARYING [(L)]	dtByteString, Len = L	VARBINARY, BINARY	stBytes	ftBytes	TBytesField	
	XMLDATA, XMLTYPE, XML	dtXML			ftWideMemo	TFXMLField	
GUID, UNIQUEIDENTIFIER	dtGUID			ftGuid	TGuidField		
DATE TIME	DATE, SMALLDATE	dtDate	DATE	stDate	ftDate	TDateField	
	TIME	dtTime	TIME	stTime	ftTime	TTimeField	
	DATETIME, SMALLDATETIME	dtDateTime	DATETIME	stTimestamp,	ftDateTime	TDateTimeField	
	TIMESTAMP	dtDateTimeStamp	TIMESTAMP	stTimestamp	ftDateTime	TDateTimeField	

Zeos notes:

Since Ver18 (Delphi 2006): Memos are Widestring

Since Ver20: string is unicodestring

Since Ver21: ftSingle support; otherwise mapped to ftDouble