Package Deilvery

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Chapter 1

CS3528_Project

Final project for class CS3528

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Basic Idea

To create a utility application for a (UPS) style package delivery system which operates in one town.

Requirements

- Sort and order packages into truck
- Determine packages that can be delivered on time
 - Each truck can only operate for 8 hours per day
 - Trucks will have a weight limit
 - Assume it takes 1 minute to drive one block
 - Each stop takes 5 minutes
- Output should include list of packages for each truck and a set of driving directions for each driver.
- Packages have the following information
 - UUID
 - Two client objects: Sender and receiver
 - Priority: Overnight, Two Day, Regular
- · Clients have the following information
 - UUID (Maybe?)
 - Name and address information

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- A list record of sent packages
- A list record of received packages
- The city has the following qualities
 - Assumed to be divided into quadrants
 - X axis is Main Street
 - Y axis is Central Avenue
 - Streets that are y=n are called nth Stree North or nth Street South
 - Streets that are x=n are called nth Avenue East or nth Avenue West

Chapter 2

Class Index

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Chapter 3

Class Documentation

3.1 Hash::_ht Struct Reference

Collaboration diagram for Hash::_ht:

Public Attributes

- int count
- HashElem * chain

The documentation for this struct was generated from the following file:

• sqlite3.c

3.2 AggInfo Struct Reference

Collaboration diagram for AggInfo:

3.3 AggInfo::AggInfo_col Struct Reference

Collaboration diagram for AggInfo::AggInfo_col:

Public Attributes

- Table * pTab
- int iTable
- int iColumn
- int iSorterColumn
- int iMem
- Expr * pExpr

The documentation for this struct was generated from the following file:

3.4 AggInfo::AggInfo_func Struct Reference

Collaboration diagram for AggInfo::AggInfo_func:

Public Attributes

- Expr * pExpr
- FuncDef * pFunc
- int iMem
- int iDistinct

The documentation for this struct was generated from the following file:

• sqlite3.c

3.5 analysisInfo Struct Reference

Collaboration diagram for analysisInfo:

Public Attributes

- sqlite3 * db
- const char * zDatabase

The documentation for this struct was generated from the following file:

• sqlite3.c

3.6 AuthContext Struct Reference

Collaboration diagram for AuthContext:

Public Attributes

- · const char * zAuthContext
- Parse * pParse

The documentation for this struct was generated from the following file:

3.7 AutoincInfo Struct Reference

Collaboration diagram for AutoincInfo:

Public Attributes

```
AutoincInfo * pNext
Table * pTab
int iDb
int regCtr
```

The documentation for this struct was generated from the following file:

• sqlite3.c

3.8 AuxData Struct Reference

Collaboration diagram for AuxData:

Public Attributes

```
int iOp
int iArg
void * pAux
void(* xDelete )(void *)
AuxData * pNext
```

The documentation for this struct was generated from the following file:

• sqlite3.c

3.9 Bitvec Struct Reference

Collaboration diagram for Bitvec:

Public Attributes

```
u32 iSize
u32 nSet
u32 iDivisor
union {
    BITVEC_TELEM aBitmap [BITVEC_NELEM]
    u32 aHash [BITVEC_NINT]
    Bitvec * apSub [BITVEC_NPTR]
} u
```

The documentation for this struct was generated from the following file:

3.10 BtCursor Struct Reference

Collaboration diagram for BtCursor:

Public Attributes

- Btree * pBtree
- BtShared * pBt
- BtCursor * pNext
- Pgno * aOverflow
- CellInfo info
- i64 **nKey**
- void * pKey
- Pgno pgnoRoot
- int nOvflAlloc
- int skipNext
- u8 curFlags
- u8 curPagerFlags
- u8 eState
- u8 hints
- i8 iPage
- u8 curIntKey
- struct KeyInfo * pKeyInfo
- void * padding1
- u16 aildx [BTCURSOR_MAX_DEPTH]
- MemPage * apPage [BTCURSOR_MAX_DEPTH]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.11 BtLock Struct Reference

Collaboration diagram for BtLock:

Public Attributes

- Btree * pBtree
- Pgno iTable
- u8 eLock
- BtLock * pNext

The documentation for this struct was generated from the following file:

3.12 Btree Struct Reference

3.12 Btree Struct Reference

Collaboration diagram for Btree:

Public Attributes

- sqlite3 * db
- BtShared * pBt
- u8 inTrans
- u8 sharable
- u8 locked
- u8 hasIncrblobCur
- int wantToLock
- int nBackup
- u32 iDataVersion
- Btree * pNext
- Btree * pPrev
- BtLock lock

The documentation for this struct was generated from the following file:

• sqlite3.c

3.13 BtreePayload Struct Reference

Public Attributes

- const void * pKey
- sqlite3_int64 nKey
- · const void * pData
- int nData
- int nZero

The documentation for this struct was generated from the following file:

• sqlite3.c

3.14 BtShared Struct Reference

Collaboration diagram for BtShared:

Public Attributes

- Pager * pPager
- sqlite3 * db
- BtCursor * pCursor
- MemPage * pPage1
- u8 openFlags
- u8 autoVacuum
- u8 incrVacuum
- u8 bDoTruncate
- u8 inTransaction
- u8 max1bytePayload
- u16 btsFlags
- u16 maxLocal
- u16 minLocal
- u16 maxLeaf
- u16 minLeaf
- u32 pageSize
- u32 usableSize
- int nTransaction
- u32 nPage
- void * pSchema
- void(* xFreeSchema)(void *)
- sqlite3_mutex * mutex
- Bitvec * pHasContent
- int nRef
- BtShared * pNext
- BtLock * pLock
- Btree * pWriter
- u8 * pTmpSpace

The documentation for this struct was generated from the following file:

• sqlite3.c

3.15 BusyHandler Struct Reference

Public Attributes

- int(* xFunc)(void *, int)
- void * pArg
- int nBusy

The documentation for this struct was generated from the following file:

· sqlite3.c

3.16 CellArray Struct Reference

Collaboration diagram for CellArray:

Public Attributes

- · int nCell
- MemPage * pRef
- u8 ** apCell
- u16 * szCell

The documentation for this struct was generated from the following file:

• sqlite3.c

3.17 CellInfo Struct Reference

Public Attributes

- i64 nKey
- u8 * pPayload
- u32 nPayload
- u16 nLocal
- u16 nSize

The documentation for this struct was generated from the following file:

· sqlite3.c

3.18 Client Class Reference

Client class.

```
#include <Client.h>
```

Public Member Functions

· Client (const string &nam, const string &add, const string &cit, const string &st, const string &z)

Client basic constructor.

• void setName (const string &)

Setter for name.

• string getName () const

Getter for name.

• void setAddress (const string &add, const string &cit, const string &st, const string &z)

Setter for address.

• string getAddress () const

Getter for address.

· string getCity () const

Getter for city.

• string getState () const

Getter for state.

• string getZip () const

Getter for zip.

void sendPackage (Package *pack)

Add a sent package.

vector< Package * > getSentPackages () const

Get sent packages.

void receivePackage (Package *pack)

Add a received package.

vector< Package * > getReceivedPackages () const

Get received packages.

• string toString () const

To String.

pair< int, int > getCoords ()

Returns coordinate pair of client.

Client * getPointer ()

Returns a pointer to this client.

unsigned int getID ()

returns the ID of this Client

Static Public Member Functions

static int getCount ()

Returns the count of total number of clients.

Private Member Functions

void parseAddress ()

Parses address into coordinates.

Private Attributes

• string name = "TEST"

Client name.

• string address = ""

Client street address.

• string city = ""

Client city.

• string state = ""

Client state.

• string zip = ""

Client zip. Note as string due to possible upgrades to none numeric zips (eg, UK.)

vector < Package * > sentPackages

Vector of packages sent by this client.

vector< Package * > receivedPackages

Vector of packages received by this client.

• pair< int, int > coordinates

Coordinate pair of address in the city.

· const int ID

ID of client.

3.18 Client Class Reference

Static Private Attributes

static int count = 0
 static count of Clients

Friends

std::ostream & operator<< (std::ostream &, const Client &)
 <p>Insertion Operator override.

3.18.1 Detailed Description

Client class.

This client class defines a citizen of the town who can send and receive packages. Each person has a name, address, and vectors representing records of all packages sent and received.

3.18.2 Constructor & Destructor Documentation

3.18.2.1 Client::Client (const string & nam, const string & add, const string & cit, const string & st, const string & z)

Client basic constructor.

Basic constructor.

Parameters

nam	Name of client.
add	Street address for client.
cit	City of client
st	State of client
Z	ZIP code of client. Note string usage for international packages.

3.18.3 Member Function Documentation

3.18.3.1 string Client::getAddress () const [inline]

Getter for address.

Returns

String of street address

```
3.18.3.2 pair<int, int> Client::getCoords() [inline]
Returns coordinate pair of client.
Returns
      Coordinate pair of client on City grid.
3.18.3.3 static int Client::getCount() [inline], [static]
Returns the count of total number of clients.
Returns
     int client count
3.18.3.4 unsigned int Client::getID() [inline]
returns the ID of this Client
Returns
     int this client's ID
3.18.3.5 Client* Client::getPointer( ) [inline]
Returns a pointer to this client.
Returns
      Client* pointer to this client
3.18.3.6 vector < Package * > Client::getReceivedPackages ( ) const
Get received packages.
Returns
      Vector of received packages
3.18.3.7 vector < Package * > Client::getSentPackages ( ) const
Get sent packages.
Returns
      Vector of sent packages
```

3.18 Client Class Reference

3.18.3.8 void Client::parseAddress() [private]

Parses address into coordinates.

Parses the address stored in object variables to Cartesian coordinates. Main Street runs East/West at Y=0. Central Avenue runs North/South at X=0. All avenues are N/S, while all streets are E/W. Building numbers are modulus 100, and rounded up or down to the nearest integer.

3.18.3.9 void Client::receivePackage (Package * pack)

Add a received package.

Parameters

pack	pointer to package
------	--------------------

3.18.3.10 void Client::sendPackage (Package * pack)

Add a sent package.

Parameters

Γ.	1-	
ŀ	oack	pointer to package

3.18.3.11 void Client::setAddress (const string & add, const string & cit, const string & st, const string & z)

Setter for address.

Updates address for client.

Parameters

add	Street address for client.
cit	City of client
st	State of client
Z	ZIP code of client. Note string usage for international packages.

3.18.3.12 string Client::toString () const

To String.

Converts client information to string for debugging output.

Returns

String containing client info for std::cout

Prints out client's name and address and also all packages associated with the client. Insertion operator only prints name and address.

Returns

string representation of client and all sent and received packages

The documentation for this class was generated from the following files:

- · Client.h
- Client.cpp

3.19 CollSeq Struct Reference

Public Attributes

- char * zName
- u8 **enc**
- void * pUser
- int(* xCmp)(void *, int, const void *, int, const void *)
- void(* xDel)(void *)

The documentation for this struct was generated from the following file:

• sqlite3.c

3.20 Column Struct Reference

Collaboration diagram for Column:

Public Attributes

- char * zName
- Expr * pDflt
- char * zColl
- u8 notNull
- · char affinity
- u8 szEst
- u8 colFlags

The documentation for this struct was generated from the following file:

· sqlite3.c

3.21 compareInfo Struct Reference

Public Attributes

- u8 matchAll
- u8 matchOne
- u8 matchSet
- u8 noCase

The documentation for this struct was generated from the following file:

3.22 CountCtx Struct Reference

Public Attributes

• i64 **n**

The documentation for this struct was generated from the following file:

• sqlite3.c

3.23 With::Cte Struct Reference

Collaboration diagram for With::Cte:

Public Attributes

- char * zName
- ExprList * pCols
- Select * pSelect
- const char * zCteErr

The documentation for this struct was generated from the following file:

• sqlite3.c

3.24 DateTime Struct Reference

Public Attributes

- sqlite3_int64 iJD
- int **Y**
- int **M**
- int **D**
- int h
- int **m**
- int tz
- double **s**
- char validYMD
- char validHMS
- · char validJD
- char validTZ
- · char tzSet

The documentation for this struct was generated from the following file:

3.25 Db Struct Reference 21

3.25 Db Struct Reference

Collaboration diagram for Db:

Public Attributes

- char * zDbSName
- Btree * pBt
- u8 safety_level
- u8 bSyncSet
- Schema * pSchema

The documentation for this struct was generated from the following file:

• sqlite3.c

3.26 DbFixer Struct Reference

Collaboration diagram for DbFixer:

Public Attributes

- Parse * pParse
- Schema * pSchema
- int bVarOnly
- const char * **zDb**
- const char * zType
- const Token * pName

The documentation for this struct was generated from the following file:

• sqlite3.c

3.27 DistinctCtx Struct Reference

Public Attributes

- u8 isTnct
- u8 eTnctType
- int tabTnct
- · int addrTnct

The documentation for this struct was generated from the following file:

3.28 et_info Struct Reference

Public Attributes

- char fmttype
- etByte base
- etByte flags
- etByte type
- etByte charset
- etByte prefix

The documentation for this struct was generated from the following file:

• sqlite3.c

3.29 Expr Struct Reference

Collaboration diagram for Expr:

Public Attributes

```
u8 op
char affinity
u32 flags
union {
    char * zToken
    int iValue
} u
Expr * pLeft
Expr * pRight
union {
    ExprList * pList
    Select * pSelect
} x
```

- int **nHeight**
- · int iTable
- ynVar iColumn
- i16 **iAgg**
- i16 iRightJoinTable
- u8 **op2**
- AggInfo * pAggInfo
- Table * pTab

The documentation for this struct was generated from the following file:

3.30 ExprList Struct Reference

Collaboration diagram for ExprList:

Classes

struct ExprList_item

Public Attributes

```
int nExprstruct ExprList::ExprList_item * a
```

The documentation for this struct was generated from the following file:

• sqlite3.c

3.31 ExprList::ExprList_item Struct Reference

Collaboration diagram for ExprList::ExprList_item:

Public Attributes

```
Expr * pExpr
char * zName
char * zSpan
u8 sortOrder
unsigned done:1
unsigned bSpanIsTab:1
unsigned reusable:1
union {
    struct {
        u16 iOrderByCol
        u16 iAlias
    } x
    int iConstExprReg
} u
```

The documentation for this struct was generated from the following file:

• sqlite3.c

3.32 ExprSpan Struct Reference

Collaboration diagram for ExprSpan:

Public Attributes

- Expr * pExpr
- const char * zStart
- const char * zEnd

The documentation for this struct was generated from the following file:

• sqlite3.c

3.33 FileChunk Struct Reference

Collaboration diagram for FileChunk:

Public Attributes

- FileChunk * pNext
- u8 **zChunk** [8]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.34 FilePoint Struct Reference

Collaboration diagram for FilePoint:

Public Attributes

- sqlite3_int64 iOffset
- FileChunk * pChunk

The documentation for this struct was generated from the following file:

• sqlite3.c

3.35 FKey Struct Reference

Collaboration diagram for FKey:

Classes

struct sColMap

Public Attributes

- Table * pFrom
- FKey * pNextFrom
- char * zTo
- FKey * pNextTo
- FKey * pPrevTo
- int nCol
- u8 isDeferred
- u8 aAction [2]
- Trigger * apTrigger [2]
- struct FKey::sColMap aCol [1]

The documentation for this struct was generated from the following file:

· sqlite3.c

3.36 fts5_api Struct Reference

Public Attributes

- int iVersion
- int(* xCreateTokenizer)(fts5_api *pApi, const char *zName, void *pContext, fts5_tokenizer *pTokenizer, void(*xDestroy)(void *))
- int(* xFindTokenizer)(fts5_api *pApi, const char *zName, void **ppContext, fts5_tokenizer *pTokenizer)
- int(* xCreateFunction)(fts5_api *pApi, const char *zName, void *pContext, fts5_extension_function x←
 Function, void(*xDestroy)(void *))

The documentation for this struct was generated from the following files:

- sqlite3.c
- sqlite3.h

3.37 fts5_tokenizer Struct Reference

Public Attributes

- int(* xCreate)(void *, const char **azArg, int nArg, Fts5Tokenizer **ppOut)
- void(* xDelete)(Fts5Tokenizer *)
- int(* xTokenize)(Fts5Tokenizer *, void *pCtx, int flags, const char *pText, int nText, int(*xToken)(void *pCtx, int tflags, const char *pToken, int nToken, int iStart, int iEnd))

The documentation for this struct was generated from the following files:

- sqlite3.c
- · sqlite3.h

3.38 Fts5ExtensionApi Struct Reference

Public Attributes

- int iVersion
- void *(* xUserData)(Fts5Context *)
- int(* xColumnCount)(Fts5Context *)
- int(* xRowCount)(Fts5Context *, sqlite3_int64 *pnRow)
- int(* xColumnTotalSize)(Fts5Context *, int iCol, sqlite3 int64 *pnToken)
- int(* **xTokenize**)(Fts5Context *, const char *pText, int nText, void *pCtx, int(*xToken)(void *, int, const char *, int, int, int, int))
- int(* xPhraseCount)(Fts5Context *)
- int(* xPhraseSize)(Fts5Context *, int iPhrase)
- int(* xInstCount)(Fts5Context *, int *pnInst)
- int(* xInst)(Fts5Context *, int ildx, int *piPhrase, int *piCol, int *piOff)
- sqlite3 int64(* xRowid)(Fts5Context *)
- int(* xColumnText)(Fts5Context *, int iCol, const char **pz, int *pn)
- int(* xColumnSize)(Fts5Context *, int iCol, int *pnToken)
- int(* xQueryPhrase)(Fts5Context *, int iPhrase, void *pUserData, int(*)(const Fts5ExtensionApi *, Fts5←
 Context *, void *))
- int(* xSetAuxdata)(Fts5Context *, void *pAux, void(*xDelete)(void *))
- void *(* xGetAuxdata)(Fts5Context *, int bClear)
- int(* xPhraseFirst)(Fts5Context *, int iPhrase, Fts5PhraseIter *, int *, int *)
- void(* xPhraseNext)(Fts5Context *, Fts5PhraseIter *, int *piCol, int *piOff)
- int(* xPhraseFirstColumn)(Fts5Context *, int iPhrase, Fts5PhraseIter *, int *)
- void(* xPhraseNextColumn)(Fts5Context *, Fts5PhraseIter *, int *piCol)

The documentation for this struct was generated from the following files:

- · sqlite3.c
- · sqlite3.h

3.39 Fts5Phraselter Struct Reference

Public Attributes

- const unsigned char * a
- const unsigned char * **b**

The documentation for this struct was generated from the following files:

- sqlite3.c
- sqlite3.h

3.40 FuncDef Struct Reference

Collaboration diagram for FuncDef:

Public Attributes

```
i8 nArg
u16 funcFlags
void * pUserData
FuncDef * pNext
void(* xSFunc )(sqlite3_context *, int, sqlite3_value **)
void(* xFinalize )(sqlite3_context *)
const char * zName
union {
    FuncDef * pHash
    FuncDestructor * pDestructor
} u
```

The documentation for this struct was generated from the following file:

• sqlite3.c

3.41 FuncDefHash Struct Reference

Collaboration diagram for FuncDefHash:

Public Attributes

```
• FuncDef * a [SQLITE_FUNC_HASH_SZ]
```

The documentation for this struct was generated from the following file:

• sqlite3.c

3.42 FuncDestructor Struct Reference

Public Attributes

```
• int nRef
```

- void(* xDestroy)(void *)
- void * pUserData

The documentation for this struct was generated from the following file:

3.43 Genetic Class Reference

Public Member Functions

Genetic (vector < Package * > *packs, vector < vector < unsigned int > > *matrix, unsigned int weight, unsigned int packLimit, unsigned int population, float stops, float drive)

```
Default constructor */.
```

virtual ∼Genetic ()

Default destructor */.

- void initPopulation ()
- float fitness (vector < Client * >)

Private Attributes

```
    vector< Package * > * packages
```

- vector< vector< unsigned int >> * adMatrix
- unsigned int popNum
- · unsigned int weightLimit
- unsigned int packageLimit
- float stopTime
- float driveTime
- vector< vector< Client * > > genes
- vector< Client * > bestFit

The documentation for this class was generated from the following files:

- · Genetic.h
- · Genetic.cpp

3.44 Hash Struct Reference

Collaboration diagram for Hash:

Classes

struct <u>ht</u>

Public Attributes

- unsigned int htsize
- · unsigned int count
- HashElem * first
- struct Hash::_ht * ht

The documentation for this struct was generated from the following file:

3.45 HashElem Struct Reference

Collaboration diagram for HashElem:

Public Attributes

- HashElem * next
- HashElem * prev
- void * data
- · const char * pKey

The documentation for this struct was generated from the following file:

• sqlite3.c

3.46 IdList Struct Reference

Collaboration diagram for IdList:

Classes

• struct IdList_item

Public Attributes

- struct ldList::ldList_item * a
- int **nld**

The documentation for this struct was generated from the following file:

• sqlite3.c

3.47 IdList::IdList_item Struct Reference

Public Attributes

- char * zName
- int idx

The documentation for this struct was generated from the following file:

3.48 IdxCover Struct Reference

Collaboration diagram for IdxCover:

Public Attributes

- Index * pldx
- int iCur

The documentation for this struct was generated from the following file:

• sqlite3.c

3.49 ImportCtx Struct Reference

Public Attributes

- · const char * zFile
- FILE * in
- char * **z**
- int **n**
- int nAlloc
- int nLine
- int cTerm
- int cColSep
- · int cRowSep

The documentation for this struct was generated from the following file:

· shell.c

3.50 Incrblob Struct Reference

Collaboration diagram for Incrblob:

Public Attributes

- int flags
- int nByte
- int iOffset
- int iCol
- BtCursor * pCsr
- sqlite3_stmt * pStmt
- sqlite3 * db
- char * zDb
- Table * pTab

The documentation for this struct was generated from the following file:

3.51 IncrMerger Struct Reference

Collaboration diagram for IncrMerger:

Public Attributes

- SortSubtask * pTask
- MergeEngine * pMerger
- i64 iStartOff
- int mxSz
- int **bEof**
- int bUseThread
- SorterFile aFile [2]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.52 Index Struct Reference

Collaboration diagram for Index:

Public Attributes

- char * zName
- i16 * aiColumn
- LogEst * aiRowLogEst
- Table * pTable
- · char * zColAff
- Index * pNext
- Schema * pSchema
- u8 * aSortOrder
- const char ** azColl
- Expr * pPartIdxWhere
- ExprList * aColExpr
- int tnum
- LogEst szldxRow
- u16 nKeyCol
- u16 nColumn
- u8 onError
- unsigned idxType:2
- unsigned bUnordered:1
- unsigned uniqNotNull:1
- unsigned isResized:1
- unsigned isCovering:1
- unsigned noSkipScan:1

The documentation for this struct was generated from the following file:

3.53 IndexSample Struct Reference

Public Attributes

- void * p
- int n
- tRowcnt * anEq
- tRowcnt * anLt
- tRowcnt * anDLt

The documentation for this struct was generated from the following file:

· sqlite3.c

3.54 InitData Struct Reference

Collaboration diagram for InitData:

Public Attributes

- sqlite3 * db
- char ** pzErrMsg
- int iDb
- int rc

The documentation for this struct was generated from the following file:

• sqlite3.c

3.55 IntegrityCk Struct Reference

Collaboration diagram for IntegrityCk:

Public Attributes

- BtShared * pBt
- Pager * pPager
- u8 * aPgRef
- Pgno **nPage**
- int mxErr
- int nErr
- int mallocFailed
- const char * **zPfx**
- int **v1**
- int **v2**
- StrAccum errMsg
- u32 * heap

The documentation for this struct was generated from the following file:

3.56 KeyInfo Struct Reference

Collaboration diagram for KeyInfo:

Public Attributes

- u32 nRef
- u8 **enc**
- u16 nField
- u16 nXField
- sqlite3 * db
- u8 * aSortOrder
- CollSeq * aColl [1]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.57 LimitVal Struct Reference

Collaboration diagram for LimitVal:

Public Attributes

- Expr * pLimit
- Expr * pOffset

The documentation for this struct was generated from the following file:

• sqlite3.c

3.58 Lookaside Struct Reference

Collaboration diagram for Lookaside:

Public Attributes

- u32 bDisable
- u16 **sz**
- u8 **bMalloced**
- int **nOut**
- int mxOut
- int anStat [3]
- LookasideSlot * pFree
- void * pStart
- void * pEnd

The documentation for this struct was generated from the following file:

3.59 LookasideSlot Struct Reference

Collaboration diagram for LookasideSlot:

Public Attributes

LookasideSlot * pNext

The documentation for this struct was generated from the following file:

• sqlite3.c

3.60 Mem Struct Reference

Collaboration diagram for Mem:

Classes

• union MemValue

Public Attributes

- union Mem::MemValue u
- u16 flags
- u8 enc
- u8 eSubtype
- int **n**
- char * **z**
- char * zMalloc
- int szMalloc
- u32 **uTemp**
- sqlite3 * db
- void(* xDel)(void *)

The documentation for this struct was generated from the following file:

• sqlite3.c

3.61 MemJournal Struct Reference

Collaboration diagram for MemJournal:

Public Attributes

- const sqlite3_io_methods * pMethod
- int nChunkSize
- int nSpill
- int nSize
- FileChunk * pFirst
- FilePoint endpoint
- · FilePoint readpoint
- int flags
- sqlite3_vfs * pVfs
- const char * zJournal

The documentation for this struct was generated from the following file:

· sqlite3.c

3.62 MemPage Struct Reference

Collaboration diagram for MemPage:

Public Attributes

- u8 islnit
- u8 nOverflow
- u8 intKey
- u8 intKeyLeaf
- u8 leaf
- u8 hdrOffset
- u8 childPtrSize
- u8 max1bytePayload
- u8 **bBusy**
- u16 maxLocal
- u16 minLocal
- u16 cellOffset
- u16 nFree
- u16 nCell
- u16 maskPage
- u16 aiOvfl [5]
- u8 * apOvfl [5]
- BtShared * pBt
- u8 * **aData**
- u8 * aDataEnd
- u8 * aCellIdx
- u8 * aDataOfst
- DbPage * pDbPage
- u16(* xCellSize)(MemPage *, u8 *)
- void(* xParseCell)(MemPage *, u8 *, CellInfo *)
- Pgno pgno

The documentation for this struct was generated from the following file:

3.63 Mem::MemValue Union Reference

Collaboration diagram for Mem::MemValue:

Public Attributes

- double r
- i64 i
- int nZero
- FuncDef * pDef
- RowSet * pRowSet
- VdbeFrame * pFrame

The documentation for this union was generated from the following file:

• sqlite3.c

3.64 MergeEngine Struct Reference

Collaboration diagram for MergeEngine:

Public Attributes

- int nTree
- SortSubtask * pTask
- int * aTree
- PmaReader * aReadr

The documentation for this struct was generated from the following file:

• sqlite3.c

3.65 Module Struct Reference

Collaboration diagram for Module:

Public Attributes

- const sqlite3_module * pModule
- const char * zName
- void * pAux
- void(* xDestroy)(void *)
- Table * pEpoTab

The documentation for this struct was generated from the following file:

3.66 NameContext Struct Reference

Collaboration diagram for NameContext:

Public Attributes

- Parse * pParse
- SrcList * pSrcList
- ExprList * pEList
- AggInfo * pAggInfo
- NameContext * pNext
- · int nRef
- int nErr
- u16 ncFlags

The documentation for this struct was generated from the following file:

• sqlite3.c

3.67 VdbeOp::p4union Union Reference

Collaboration diagram for VdbeOp::p4union:

Public Attributes

- int **i**
- void * p
- char * **z**
- i64 * **pl64**
- double * pReal
- FuncDef * pFunc
- sqlite3_context * pCtx
- CollSeq * pColl
- Mem * pMem
- VTable * pVtab
- KeyInfo * pKeyInfo
- int * **ai**
- SubProgram * pProgram
- Table * pTab
- int(* xAdvance)(BtCursor *, int *)

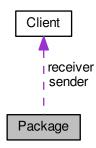
The documentation for this union was generated from the following file:

3.68 Package Class Reference

Package class.

#include <Package.h>

Collaboration diagram for Package:



Public Member Functions

• Package (Client *s, Client *r, const float w, const Priority p)

Constructor.

void setSender (Client *)

Sender setter.

• Client * getSender () const

Sender getter.

void setReceiver (Client *)

Receiver setter.

• Client * getReceiver () const

Receiver getter.

void setWeight (const double)

Weight setter.

• float getWeight () const

Weight getter.

• void setPriority (const Priority)

Priority setter.

• Priority getPriority () const

Priority getter.

• string getPriorityString () const

Priority string getter.

• bool getDelivered () const

Returns delivered flag.

• void deliver ()

Sets delivered flag to true.

Package * getPointer ()

Returns a pointer to this package.

Private Attributes

• Client * sender

Pointer to sender client.

· Client * receiver

Pointer to receiver client.

· float weight

Weight of package in ounces.

• Priority priority

Priority enum of package.

• bool delivered = false

Package delivered?

Friends

std::ostream & operator<< (std::ostream &, const Package &)
 Insertion Operator Override.

3.68.1 Detailed Description

Package class.

This Package class defines a package which was sent by a Client and received by a Client. Each package has a priority, a weight, and two clients (a sender and receiver).

3.68.2 Constructor & Destructor Documentation

3.68.2.1 Package::Package (Client * s, Client * r, const float w, const Priority p)

Constructor.

Parameters

s	Sender Client
r	Receiver Client
W	Package weight
р	Package priority

3.68.3 Member Function Documentation

3.68.3.1 bool Package::getDelivered () const

Returns delivered flag.

return bool delivered flag

```
3.68.3.2 Priority Package::getPriority ( ) const
Priority getter.
Package priority getter.
Returns
      Package priority
3.68.3.3 string Package::getPriorityString ( ) const
Priority string getter.
Priority is an enum and hence is actually an int. Here's a nice way to print the string value.
Returns
      string of priority
3.68.3.4 Client * Package::getReceiver ( ) const
Receiver getter.
Returns
      pointer to receiver client
3.68.3.5 Client * Package::getSender ( ) const
Sender getter.
Returns
      pointer to sender client
3.68.3.6 float Package::getWeight ( ) const
Weight getter.
Package Weight getter.
Returns
      Package weight
3.68.3.7 void Package::setPriority ( const Priority p )
Priority setter.
Package Priority setter.
```

Parameters Priority enum 3.68.3.8 void Package::setReceiver (Client *r) Receiver setter. **Parameters** pointer to receiver client 3.68.3.9 void Package::setSender (Client *s) Sender setter. **Parameters** pointer to sender client 3.68.3.10 void Package::setWeight (const double w) Weight setter. Package weight setter. Throws error on negative weight.

The documentation for this class was generated from the following files:

· Package.h

Parameters

· Package.cpp

Package weight

3.69 Pager Struct Reference

Collaboration diagram for Pager:

Public Attributes

- sqlite3_vfs * pVfs
- u8 exclusiveMode
- u8 journalMode
- u8 useJournal
- u8 noSync
- u8 fullSync
- u8 extraSync
- u8 ckptSyncFlags
- u8 walSyncFlags
- u8 syncFlags
- u8 tempFile
- u8 noLock
- u8 readOnly
- u8 memDb
- u8 eState
- u8 eLock
- u8 changeCountDone
- u8 setMaster
- u8 doNotSpill
- u8 subjlnMemory
- u8 bUseFetch
- u8 hasHeldSharedLock
- Pgno dbSize
- Pgno dbOrigSize
- Pgno dbFileSize
- · Pgno dbHintSize
- · int errCode
- int nRec
- u32 cksumlnit
- u32 nSubRec
- Bitvec * plnJournal
- sqlite3 file * fd
- sqlite3_file * jfd
- sqlite3_file * sjfd
- i64 journalOff
- i64 journalHdrsqlite3_backup * pBackup
- PagerSavepoint * aSavepoint
- · int nSavepoint
- u32 iDataVersion
- char dbFileVers [16]
- int nMmapOut
- sqlite3_int64 szMmap
- PgHdr * pMmapFreelist
- u16 nExtra
- i16 nReserve
- u32 vfsFlags
- u32 sectorSize
- int pageSize
- Pgno mxPgno
- i64 journalSizeLimit
- char * zFilename
- char * zJournal

- int(* xBusyHandler)(void *)
- void * pBusyHandlerArg
- int aStat [3]
- void(* xReiniter)(DbPage *)
- char * pTmpSpace
- PCache * pPCache
- Wal * pWal
- · char * zWal

The documentation for this struct was generated from the following file:

• sqlite3.c

3.70 PagerSavepoint Struct Reference

Collaboration diagram for PagerSavepoint:

Public Attributes

- i64 iOffset
- i64 iHdrOffset
- Bitvec * plnSavepoint
- Pgno nOrig
- Pgno iSubRec
- u32 aWalData [WAL_SAVEPOINT_NDATA]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.71 Parse Struct Reference

Collaboration diagram for Parse:

Classes

• struct yColCache

Public Attributes

- sqlite3 * db
- char * zErrMsg
- Vdbe * pVdbe
- int rc
- u8 colNamesSet
- u8 checkSchema
- u8 nested
- u8 nTempReg
- u8 isMultiWrite
- u8 mayAbort
- u8 hasCompound
- u8 okConstFactor
- u8 disableLookaside
- u8 nColCache
- int nRangeReg
- int iRangeReg
- int **nErr**
- int nTab
- int nMem
- int nOpAlloc
- int szOpAlloc
- · int ckBase
- · int iSelfTab
- int iCacheLevel
- · int iCacheCnt
- · int nLabel
- int * aLabel
- ExprList * pConstExpr
- Token constraintName
- yDbMask writeMask
- yDbMask cookieMask
- int regRowid
- int regRoot
- · int nMaxArg
- int nTableLock
- TableLock * aTableLock
- AutoincInfo * pAinc
- Parse * pToplevel
- Table * pTriggerTab
- int addrCrTab
- u32 nQueryLoop
- u32 oldmask
- u32 newmask
- u8 eTriggerOp
- u8 eOrconf
- u8 disableTriggers
- struct Parse::yColCache aColCache [SQLITE_N_COLCACHE]
- int aTempReg [8]
- Token sNameToken
- Token sLastToken
- ynVar **nVar**
- int nzVar
- u8 iPkSortOrder

- u8 explain
- u8 declareVtab
- int nVtabLock
- int nHeight
- · int iSelectId
- · int iNextSelectId
- char ** azVar
- Vdbe * pReprepare
- · const char * zTail
- Table * pNewTable
- Trigger * pNewTrigger
- const char * zAuthContext
- Token sArg
- Table ** apVtabLock
- Table * pZombieTab
- TriggerPrg * pTriggerPrg
- With * pWith
- With * pWithToFree

The documentation for this struct was generated from the following file:

• sqlite3.c

3.72 PCache Struct Reference

Collaboration diagram for PCache:

Public Attributes

- PgHdr * pDirty
- PgHdr * pDirtyTail
- PgHdr * pSynced
- int nRefSum
- · int szCache
- int szSpill
- int szPage
- int szExtra
- u8 bPurgeable
- u8 eCreate
- int(* xStress)(void *, PgHdr *)
- void * pStress
- sqlite3_pcache * pCache

The documentation for this struct was generated from the following file:

3.73 PCache1 Struct Reference

Collaboration diagram for PCache1:

Public Attributes

- PGroup * pGroup
- int szPage
- int szExtra
- int szAlloc
- · int bPurgeable
- unsigned int nMin
- unsigned int nMax
- · unsigned int n90pct
- · unsigned int iMaxKey
- unsigned int nRecyclable
- unsigned int nPage
- · unsigned int nHash
- PgHdr1 ** apHash
- PgHdr1 * pFree
- void * pBulk

The documentation for this struct was generated from the following file:

• sqlite3.c

3.74 PgFreeslot Struct Reference

Collaboration diagram for PgFreeslot:

Public Attributes

PgFreeslot * pNext

The documentation for this struct was generated from the following file:

• sqlite3.c

3.75 PgHdr Struct Reference

Collaboration diagram for PgHdr:

Public Attributes

- sqlite3_pcache_page * pPage
- void * pData
- void * pExtra
- PgHdr * pDirty
- Pager * pPager
- Pgno pgno
- u16 flags
- i16 **nRef**
- PCache * pCache
- PgHdr * pDirtyNext
- PgHdr * pDirtyPrev

The documentation for this struct was generated from the following file:

• sqlite3.c

3.76 PgHdr1 Struct Reference

Collaboration diagram for PgHdr1:

Public Attributes

- sqlite3_pcache_page page
- · unsigned int iKey
- u8 isPinned
- u8 isBulkLocal
- u8 isAnchor
- PgHdr1 * pNext
- PCache1 * pCache
- PgHdr1 * pLruNext
- PgHdr1 * pLruPrev

The documentation for this struct was generated from the following file:

• sqlite3.c

3.77 PGroup Struct Reference

Collaboration diagram for PGroup:

Public Attributes

- sqlite3_mutex * mutex
- · unsigned int nMaxPage
- unsigned int nMinPage
- · unsigned int mxPinned
- unsigned int nCurrentPage
- PgHdr1 Iru

The documentation for this struct was generated from the following file:

• sqlite3.c

3.78 PmaReader Struct Reference

Collaboration diagram for PmaReader:

Public Attributes

- i64 iReadOff
- i64 **iEof**
- int nAlloc
- int **nKey**
- sqlite3_file * pFd
- u8 * aAlloc
- u8 * aKey
- u8 * aBuffer
- · int nBuffer
- u8 * aMap
- IncrMerger * pIncr

The documentation for this struct was generated from the following file:

• sqlite3.c

3.79 PmaWriter Struct Reference

Collaboration diagram for PmaWriter:

Public Attributes

- int eFWErr
- u8 * aBuffer
- int **nBuffer**
- · int iBufStart
- int iBufEnd
- i64 iWriteOff
- sqlite3_file * pFd

The documentation for this struct was generated from the following file:

3.80 PreUpdate Struct Reference

Collaboration diagram for PreUpdate:

Public Attributes

- Vdbe * v
- VdbeCursor * pCsr
- int op
- u8 * aRecord
- KeyInfo keyinfo
- UnpackedRecord * pUnpacked
- UnpackedRecord * pNewUnpacked
- int iNewReg
- i64 iKey1
- i64 iKey2
- Mem * aNew
- Table * pTab

The documentation for this struct was generated from the following file:

• sqlite3.c

3.81 PrintfArguments Struct Reference

Collaboration diagram for PrintfArguments:

Public Attributes

- int **nArg**
- · int nUsed
- sqlite3_value ** apArg

The documentation for this struct was generated from the following file:

• sqlite3.c

3.82 randomPackageEnum Struct Reference

Public Attributes

- string fileName
- · unsigned int population
- · unsigned int num
- int maxAddress
- unsigned int maxStreets
- float maxWeight
- float priority [3]

The documentation for this struct was generated from the following file:

client_test.cpp

3.83 ReusableSpace Struct Reference

Public Attributes

- u8 * pSpace
- int nFree
- int nNeeded

The documentation for this struct was generated from the following file:

• sqlite3.c

3.84 RowSet Struct Reference

Collaboration diagram for RowSet:

Public Attributes

- struct RowSetChunk * pChunk
- sqlite3 * db
- struct RowSetEntry * pEntry
- struct RowSetEntry * pLast
- struct RowSetEntry * pFresh
- struct RowSetEntry * pForest
- u16 nFresh
- u16 rsFlags
- · int iBatch

The documentation for this struct was generated from the following file:

• sqlite3.c

3.85 RowSetChunk Struct Reference

Collaboration diagram for RowSetChunk:

Public Attributes

- struct RowSetChunk * pNextChunk
- struct RowSetEntry aEntry [ROWSET_ENTRY_PER_CHUNK]

The documentation for this struct was generated from the following file:

3.86 RowSetEntry Struct Reference

Collaboration diagram for RowSetEntry:

Public Attributes

- i64 **v**
- struct RowSetEntry * pRight
- struct RowSetEntry * pLeft

The documentation for this struct was generated from the following file:

• sqlite3.c

3.87 SavedModeInfo Struct Reference

Public Attributes

- · int valid
- int mode
- int showHeader
- int colWidth [100]

The documentation for this struct was generated from the following file:

· shell.c

3.88 Savepoint Struct Reference

Collaboration diagram for Savepoint:

Public Attributes

- char * zName
- i64 nDeferredCons
- i64 nDeferredImmCons
- Savepoint * pNext

The documentation for this struct was generated from the following file:

3.89 ScanStatus Struct Reference

Public Attributes

- int addrExplain
- · int addrLoop
- int addrVisit
- int iSelectID
- LogEst nEst
- · char * zName

The documentation for this struct was generated from the following file:

• sqlite3.c

3.90 Schema Struct Reference

Collaboration diagram for Schema:

Public Attributes

- int schema_cookie
- int iGeneration
- Hash tblHash
- · Hash idxHash
- Hash trigHash
- Hash fkeyHash
- Table * pSeqTab
- u8 file_format
- u8 enc
- u16 schemaFlags
- int cache_size

The documentation for this struct was generated from the following file:

• sqlite3.c

3.91 FKey::sColMap Struct Reference

Public Attributes

- int iFrom
- char * zCol

The documentation for this struct was generated from the following file:

3.92 ScratchFreeslot Struct Reference

Collaboration diagram for ScratchFreeslot:

Public Attributes

struct ScratchFreeslot * pNext

The documentation for this struct was generated from the following file:

• sqlite3.c

3.93 Select Struct Reference

Collaboration diagram for Select:

Public Attributes

- ExprList * pEList
- u8 **op**
- LogEst nSelectRow
- u32 selFlags
- int iLimit
- int iOffset
- int addrOpenEphm [2]
- SrcList * pSrc
- Expr * pWhere
- ExprList * pGroupBy
- Expr * pHaving
- ExprList * pOrderBy
- Select * pPrior
- Select * pNext
- Expr * pLimit
- Expr * pOffset
- With * pWith

The documentation for this struct was generated from the following file:

• sqlite3.c

3.94 SelectDest Struct Reference

Collaboration diagram for SelectDest:

Public Attributes

- u8 eDest
- char * zAffSdst
- int iSDParm
- int iSdst
- int nSdst
- ExprList * pOrderBy

The documentation for this struct was generated from the following file:

• sqlite3.c

3.95 ShellState Struct Reference

Collaboration diagram for ShellState:

Public Attributes

- sqlite3 * db
- int echoOn
- int autoExplain
- int autoEQP
- int statsOn
- int scanstatsOn
- · int countChanges
- · int backslashOn
- int outCount
- int cnt
- FILE * out
- FILE * traceOut
- int nErr
- int mode
- int cMode
- int normalMode
- int writableSchema
- int showHeader
- int nCheck
- · unsigned shellFlgs
- char * zDestTable
- char **zTestcase** [30]
- char colSeparator [20]
- char rowSeparator [20]
- int colWidth [100]
- int actualWidth [100]
- char **nullValue** [20]
- char outfile [FILENAME_MAX]
- const char * zDbFilename
- char * zFreeOnClose
- const char * zVfs
- sqlite3_stmt * pStmt

- FILE * pLog
- int * aiIndent
- int nlndent
- int ilndent

The documentation for this struct was generated from the following file:

· shell.c

3.96 SortCtx Struct Reference

Collaboration diagram for SortCtx:

Public Attributes

- ExprList * pOrderBy
- int nOBSat
- int iECursor
- · int regReturn
- · int labelBkOut
- int addrSortIndex
- int labelDone
- u8 sortFlags
- u8 bOrderedInnerLoop

The documentation for this struct was generated from the following file:

• sqlite3.c

3.97 SorterFile Struct Reference

Collaboration diagram for SorterFile:

Public Attributes

- sqlite3_file * pFd
- i64 **iEof**

The documentation for this struct was generated from the following file:

3.98 SorterList Struct Reference

Collaboration diagram for SorterList:

Public Attributes

```
SorterRecord * pListu8 * aMemoryint szPMA
```

The documentation for this struct was generated from the following file:

• sqlite3.c

3.99 SorterRecord Struct Reference

Collaboration diagram for SorterRecord:

Public Attributes

```
    int nVal
    union {
        SorterRecord * pNext
        int iNext
    } u
```

The documentation for this struct was generated from the following file:

• sqlite3.c

3.100 SortSubtask Struct Reference

Collaboration diagram for SortSubtask:

Public Attributes

```
    SQLiteThread * pThread
```

- int **bDone**
- VdbeSorter * pSorter
- UnpackedRecord * pUnpacked
- SorterList list
- int nPMA
- SorterCompare xCompare
- SorterFile file
- SorterFile file2

The documentation for this struct was generated from the following file:

3.101 sqlite3 Struct Reference

Collaboration diagram for sqlite3:

Classes

• struct sqlite3InitInfo

Public Attributes

- sqlite3_vfs * pVfs
- struct Vdbe * pVdbe
- CollSeq * pDfltColl
- sqlite3_mutex * mutex
- **Db** * **aDb**
- int nDb
- · int flags
- i64 lastRowid
- i64 szMmap
- unsigned int openFlags
- · int errCode
- int errMask
- int iSysErrno
- u16 dbOptFlags
- u8 **enc**
- u8 autoCommit
- u8 temp_store
- u8 mallocFailed
- u8 bBenignMalloc
- u8 dfltLockMode
- signed char nextAutovac
- u8 suppressErr
- u8 vtabOnConflict
- u8 isTransactionSavepoint
- u8 mTrace
- int nextPagesize
- u32 magic
- int nChange
- int nTotalChange
- int aLimit [SQLITE_N_LIMIT]
- int nMaxSorterMmap
- struct sqlite3::sqlite3InitInfo init
- int nVdbeActive
- int nVdbeRead
- int nVdbeWrite
- int nVdbeExec
- int nVDestroy
- int nExtension
- void ** aExtension
- int(* xTrace)(u32, void *, void *, void *)
- void * pTraceArg
- void(* xProfile)(void *, const char *, u64)

```
    void * pProfileArg

void * pCommitArg

    int(* xCommitCallback )(void *)

    void * pRollbackArg

    void(* xRollbackCallback )(void *)

    void * pUpdateArg

    void(* xUpdateCallback )(void *, int, const char *, const char *, sqlite int64)

    int(* xWalCallback )(void *, sqlite3 *, const char *, int)

void * pWalArg

    void(* xCollNeeded )(void *, sqlite3 *, int eTextRep, const char *)

• void(* xCollNeeded16 )(void *, sqlite3 *, int eTextRep, const void *)

    void * pCollNeededArg

sqlite3_value * pErr
• union {
    volatile int isInterrupted
    double notUsed1
  } u1
· Lookaside lookaside

    sqlite3_xauth xAuth

void * pAuthArg
int(* xProgress )(void *)

    void * pProgressArg

    unsigned nProgressOps

    int nVTrans

· Hash aModule
VtabCtx * pVtabCtx

    VTable ** aVTrans

    VTable * pDisconnect

· Hash aFunc

    Hash aCollSeq

• BusyHandler busyHandler
• Db aDbStatic [2]
• Savepoint * pSavepoint

    int busyTimeout

· int nSavepoint
```

The documentation for this struct was generated from the following file:

· sqlite3.c

int nStatement
 i64 nDeferredCons
 i64 nDeferredImmCons
 int * pnBytesFreed

3.102 sqlite3_api_routines Struct Reference

Collaboration diagram for sqlite3_api_routines:

Public Attributes

```
    void *(* aggregate_context )(sqlite3_context *, int nBytes)

int(* aggregate_count )(sqlite3_context *)

    int(* bind_blob )(sqlite3_stmt *, int, const void *, int n, void(*)(void *))

    int(* bind double )(sqlite3 stmt *, int, double)

    int(* bind_int)(sqlite3 stmt *, int, int)

int(* bind_int64 )(sqlite3 stmt *, int, sqlite int64)
int(* bind_null )(sqlite3_stmt *, int)
int(* bind_parameter_count )(sqlite3_stmt *)
• int(* bind parameter index )(sqlite3 stmt *, const char *zName)

    const char *(* bind_parameter_name )(sqlite3_stmt *, int)

    int(* bind text)(sqlite3 stmt *, int, const char *, int n, void(*)(void *))

    int(* bind_text16 )(sqlite3_stmt *, int, const void *, int, void(*)(void *))

int(* bind_value )(sqlite3_stmt *, int, const sqlite3_value *)
int(* busy_handler )(sqlite3 *, int(*)(void *, int), void *)
int(* busy_timeout )(sqlite3 *, int ms)
int(* changes )(sqlite3 *)

    int(* close )(sqlite3 *)

• int(* collation needed )(sglite3 *, void *, void(*)(void *, sglite3 *, int eTextRep, const char *))

    int(* collation_needed16 )(sqlite3 *, void *, void(*)(void *, sqlite3 *, int eTextRep, const void *))

    const void *(* column_blob )(sqlite3 stmt *, int iCol)

    int(* column_bytes )(sqlite3 stmt *, int iCol)

    int(* column_bytes16 )(sqlite3_stmt *, int iCol)

    int(* column_count )(sqlite3 stmt *pStmt)

    const char *(* column_database_name )(sqlite3_stmt *, int)

    const void *(* column_database_name16 )(sqlite3_stmt *, int)

    const char *(* column decltype )(sqlite3 stmt *, int i)

    const void *(* column_decltype16 )(sqlite3 stmt *, int)

    double(* column_double )(sqlite3 stmt *, int iCol)

• int(* column_int )(sqlite3_stmt *, int iCol)

    sqlite int64(* column_int64)(sqlite3 stmt *, int iCol)

    const char *(* column_name )(sqlite3_stmt *, int)

    const void *(* column name16 )(sqlite3 stmt *, int)

    const char *(* column_origin_name )(sqlite3_stmt *, int)

    const void *(* column_origin_name16 )(sqlite3_stmt *, int)

    const char *(* column_table_name )(sqlite3 stmt *, int)

    const void *(* column_table_name16 )(sqlite3_stmt *, int)

    const unsigned char *(* column_text )(sqlite3 stmt *, int iCol)

    const void *(* column text16 )(sqlite3 stmt *, int iCol)

int(* column_type )(sqlite3_stmt *, int iCol)

    sqlite3_value *(* column_value )(sqlite3_stmt *, int iCol)

void *(* commit_hook )(sqlite3 *, int(*)(void *), void *)
• int(* complete )(const char *sql)

    int(* complete16 )(const void *sql)

    int(* create_collation )(sqlite3 *, const char *, int, void *, int(*)(void *, int, const void *, int, const void *, int, const void *)

    int(* create_collation16 )(sqlite3 *, const void *, int, void *, int(*)(void *, int, const void *, int, const void *))

    int(* create_function )(sqlite3 *, const char *, int, int, void *, void(*xFunc)(sqlite3_context *, int, sqlite3_←

  value **), void(*xStep)(sqlite3_context *, int, sqlite3_value **), void(*xFinal)(sqlite3_context *))

    int(* create_function16 )(sqlite3 *, const void *, int, int, void *, void(*xFunc)(sqlite3_context *, int, sqlite3←

  _value **), void(*xStep)(sqlite3_context *, int, sqlite3_value **), void(*xFinal)(sqlite3_context *))
• int(* create module )(sqlite3 *, const char *, const sqlite3 module *, void *)
int(* data_count )(sqlite3_stmt *pStmt)

    sqlite3 *(* db_handle )(sqlite3 stmt *)

int(* declare_vtab )(sqlite3 *, const char *)
```

```
int(* enable_shared_cache )(int)
int(* errcode )(sqlite3 *db)
const char *(* errmsg )(sqlite3 *)

    const void *(* errmsq16 )(sqlite3 *)

• int(* exec )(sqlite3 *, const char *, sqlite3 callback, void *, char **)
int(* expired )(sqlite3 stmt *)

    int(* finalize )(sqlite3 stmt *pStmt)

void(* free )(void *)
void(* free_table )(char **result)

    int(* get_autocommit)(sqlite3 *)

    void *(* get_auxdata )(sqlite3 context *, int)

• int(* get table)(sqlite3 *, const char *, char ***, int *, int *, char **)
int(* global_recover )(void)
void(* interruptx )(sqlite3 *)

    sqlite_int64(* last_insert_rowid )(sqlite3 *)

    const char *(* libversion )(void)

    int(* libversion_number )(void)

void *(* malloc )(int)

    char *(* mprintf )(const char *,...)

int(* open )(const char *, sqlite3 **)

    int(* open16 )(const void *, sqlite3 **)

    int(* prepare )(sqlite3 *, const char *, int, sqlite3 stmt **, const char **)

    int(* prepare16 )(sqlite3 *, const void *, int, sqlite3_stmt **, const void **)

    void *(* profile )(sqlite3 *, void(*)(void *, const char *, sqlite_uint64), void *)

    void(* progress_handler)(sqlite3 *, int, int(*)(void *), void *)

void *(* realloc )(void *, int)
int(* reset )(sqlite3_stmt *pStmt)

    void(* result blob )(sqlite3 context *, const void *, int, void(*)(void *))

    void(* result_double )(sqlite3_context *, double)

    void(* result_error )(sqlite3 context *, const char *, int)

    void(* result_error16 )(sqlite3_context *, const void *, int)

void(* result_int )(sqlite3_context *, int)

    void(* result_int64 )(sqlite3 context *, sqlite int64)

void(* result_null )(sqlite3_context *)

    void(* result text )(sqlite3 context *, const char *, int, void(*)(void *))

    void(* result_text16 )(sqlite3_context *, const void *, int, void(*)(void *))

    void(* result_text16be )(sqlite3_context *, const void *, int, void(*)(void *))

    void(* result_text16le )(sqlite3_context *, const void *, int, void(*)(void *))

    void(* result_value )(sqlite3 context *, sqlite3 value *)

    void *(* rollback_hook )(sqlite3 *, void(*)(void *), void *)

• int(* set_authorizer)(sqlite3 *, int(*)(void *, int, const char *, const char *, const char *, const char *), void
  *)

    void(* set auxdata )(sqlite3 context *, int, void *, void(*)(void *))

    char *(* snprintf )(int, char *, const char *,...)

int(* step )(sqlite3 stmt *)
• int(* table column metadata)(sqlite3 *, const char *, const char *, const char *, char const **, char const
  **, int *, int *, int *)
void(* thread_cleanup )(void)
int(* total_changes )(sqlite3 *)

    void *(* trace )(sqlite3 *, void(*xTrace)(void *, const char *), void *)

int(* transfer_bindings )(sqlite3_stmt *, sqlite3_stmt *)
• void *(* update hook )(sqlite3 *, void(*)(void *, int, char const *, char const *, sqlite int64), void *)

    void *(* user_data )(sqlite3 context *)

    const void *(* value_blob )(sqlite3 value *)

int(* value_bytes )(sqlite3_value *)
```

```
int(* value_bytes16 )(sqlite3_value *)

    double(* value_double )(sqlite3_value *)

int(* value_int )(sqlite3_value *)
• sqlite_int64(* value_int64 )(sqlite3_value *)

    int(* value numeric type )(sqlite3 value *)

    const unsigned char *(* value_text )(sqlite3_value *)

    const void *(* value text16 )(sqlite3 value *)

    const void *(* value_text16be )(sqlite3 value *)

    const void *(* value_text16le )(sqlite3 value *)

    int(* value_type )(sqlite3 value *)

    char *(* vmprintf)(const char *, va list)

    int(* overload_function )(sqlite3 *, const char *zFuncName, int nArg)

int(* prepare_v2 )(sqlite3 *, const char *, int, sqlite3_stmt **, const char **)

    int(* prepare16_v2)(sqlite3 *, const void *, int, sqlite3 stmt **, const void **)

int(* clear_bindings )(sqlite3_stmt *)
• int(* create module v2 )(sqlite3 *, const char *, const sqlite3 module *, void *, void (*xDestroy)(void *))

    int(* bind zeroblob )(sqlite3 stmt *, int, int)

int(* blob bytes )(sqlite3 blob *)

    int(* blob_close )(sqlite3_blob *)

• int(* blob_open )(sqlite3 *, const char *, const char *, sqlite3_int64, int, sqlite3_blob **)
int(* blob_read )(sqlite3_blob *, void *, int, int)

    int(* blob_write )(sqlite3 blob *, const void *, int, int)

• int(* create collation v2 )(sqlite3 *, const char *, int, void *, int(*)(void *, int, const void *, int, c
    *), void(*)(void *))

    int(* file_control )(sqlite3 *, const char *, int, void *)

sqlite3_int64(* memory_highwater )(int)
sqlite3_int64(* memory_used )(void)

    sqlite3 mutex *(* mutex alloc )(int)

    void(* mutex_enter )(sqlite3_mutex *)

    void(* mutex_free )(sqlite3 mutex *)

void(* mutex_leave )(sqlite3_mutex *)
int(* mutex_try )(sqlite3_mutex *)
int(* open_v2 )(const char *, sqlite3 **, int, const char *)

    int(* release memory )(int)

    void(* result_error_nomem )(sqlite3_context *)

    void(* result_error_toobig )(sqlite3_context *)

int(* sleep )(int)

    void(* soft_heap_limit )(int)

sqlite3_vfs *(* vfs_find )(const char *)

    int(* vfs_register )(sqlite3 vfs *, int)

    int(* vfs_unregister )(sqlite3 vfs *)

int(* xthreadsafe )(void)

    void(* result_zeroblob )(sqlite3 context *, int)

    void(* result_error_code )(sqlite3_context *, int)

• int(* test control )(int,...)
void(* randomness )(int, void *)

    sqlite3 *(* context db handle )(sqlite3 context *)

    int(* extended_result_codes )(sqlite3 *, int)

• int(* limit )(sqlite3 *, int, int)

    sqlite3_stmt *(* next_stmt )(sqlite3 *, sqlite3_stmt *)

const char *(* sql )(sqlite3_stmt *)
• int(* status )(int, int *, int *, int)

    int(* backup_finish )(sqlite3 backup *)

    sqlite3 backup *(* backup init)(sqlite3 *, const char *, sqlite3 *, const char *)

    int(* backup_pagecount )(sqlite3_backup *)
```

```
    int(* backup_remaining )(sqlite3_backup *)

    int(* backup_step )(sqlite3_backup *, int)

    const char *(* compileoption_get )(int)

    int(* compileoption used )(const char *)

    int(* create function v2)(sqlite3 *, const char *, int, int, void *, void(*xFunc)(sqlite3 context *, int, sqlite3←

  _value **), void(*xStep)(sqlite3_context *, int, sqlite3_value **), void(*xFinal)(sqlite3_context *), void(*x←
  Destroy)(void *))
int(* db_config )(sqlite3 *, int,...)

    sqlite3 mutex *(* db_mutex )(sqlite3 *)

int(* db_status )(sqlite3 *, int, int *, int *, int)

    int(* extended_errcode )(sqlite3 *)

void(* log )(int, const char *,...)

    sqlite3 int64(* soft heap limit64)(sqlite3 int64)

    const char *(* sourceid )(void)

    int(* stmt status )(sqlite3 stmt *, int, int)

    int(* strnicmp )(const char *, const char *, int)

    int(* unlock notify)(sqlite3 *, void(*)(void **, int), void *)

    int(* wal_autocheckpoint )(sqlite3 *, int)

int(* wal_checkpoint )(sqlite3 *, const char *)

    void *(* wal_hook )(sqlite3 *, int(*)(void *, sqlite3 *, const char *, int), void *)

int(* blob_reopen )(sqlite3_blob *, sqlite3_int64)

    int(* vtab_config )(sqlite3 *, int op,...)

    int(* vtab_on_conflict )(sqlite3 *)

    int(* close_v2 )(sqlite3 *)

    const char *(* db_filename )(sqlite3 *, const char *)

int(* db_readonly )(sqlite3 *, const char *)
int(* db_release_memory )(sqlite3 *)
const char *(* errstr )(int)
int(* stmt busy )(sqlite3 stmt *)
int(* stmt_readonly )(sqlite3_stmt *)
• int(* stricmp)(const char *, const char *)

    int(* uri_boolean )(const char *, const char *, int)

• sqlite3 int64(* uri_int64)(const char *, const char *, sqlite3 int64)

    const char *(* uri_parameter )(const char *, const char *)

• char *(* vsnprintf )(int, char *, const char *, va list)

    int(* wal_checkpoint_v2)(sqlite3 *, const char *, int, int *, int *)

int(* auto_extension )(void(*)(void))
int(* bind_blob64 )(sqlite3_stmt *, int, const void *, sqlite3_uint64, void(*)(void *))
• int(* bind_text64 )(sqlite3_stmt *, int, const char *, sqlite3_uint64, void(*)(void *), unsigned char)

    int(* cancel auto extension )(void(*)(void))

    int(* load_extension )(sqlite3 *, const char *, const char *, char **)

    void *(* malloc64 )(sqlite3 uint64)

sqlite3 uint64(* msize )(void *)
void *(* realloc64 )(void *, sqlite3_uint64)

    void(* reset auto extension )(void)

    void(* result blob64)(sqlite3 context *, const void *, sqlite3 uint64, void(*)(void *))

    void(* result text64 )(sqlite3 context *, const char *, sqlite3 uint64, void(*)(void *), unsigned char)

    int(* strglob )(const char *, const char *)

    sqlite3_value *(* value_dup )(const sqlite3_value *)

void(* value_free )(sqlite3_value *)
int(* result_zeroblob64 )(sqlite3_context *, sqlite3_uint64)

    int(* bind zeroblob64 )(sqlite3 stmt *, int, sqlite3 uint64)

    unsigned int(* value_subtype )(sqlite3 value *)

    void(* result_subtype )(sqlite3_context *, unsigned int)

    int(* status64 )(int, sqlite3_int64 *, sqlite3_int64 *, int)
```

```
int(* strlike )(const char *, const char *, unsigned int)
int(* db_cacheflush )(sqlite3 *)
int(* system_errno )(sqlite3 *)
int(* trace_v2 )(sqlite3 *, unsigned, int(*)(unsigned, void *, void *, void *), void *)
char *(* expanded_sql )(sqlite3_stmt *)
```

The documentation for this struct was generated from the following files:

- sqlite3.c
- · sqlite3ext.h

3.103 sqlite3_backup Struct Reference

Collaboration diagram for sqlite3_backup:

Public Attributes

- sqlite3 * pDestDb
- Btree * pDest
- u32 iDestSchema
- int bDestLocked
- Pgno iNext
- sqlite3 * pSrcDb
- Btree * pSrc
- int rc
- Pgno nRemaining
- · Pgno nPagecount
- int isAttached
- sqlite3_backup * pNext

The documentation for this struct was generated from the following file:

• sqlite3.c

3.104 sqlite3_context Struct Reference

Collaboration diagram for sqlite3_context:

Public Attributes

- Mem * pOut
- FuncDef * pFunc
- Mem * pMem
- Vdbe * pVdbe
- int iOp
- int isError
- u8 skipFlag
- u8 fErrorOrAux
- u8 argc
- sqlite3_value * argv [1]

The documentation for this struct was generated from the following file:

3.105 sqlite3_file Struct Reference

Collaboration diagram for sqlite3_file:

Public Attributes

const struct sqlite3_io_methods * pMethods

The documentation for this struct was generated from the following files:

- sqlite3.c
- sqlite3.h

3.106 sqlite3_index_info::sqlite3_index_constraint Struct Reference

Public Attributes

- int iColumn
- · unsigned char op
- unsigned char usable
- int iTermOffset

The documentation for this struct was generated from the following files:

- sqlite3.c
- · sqlite3.h

3.107 sqlite3_index_info::sqlite3_index_constraint_usage Struct Reference

Public Attributes

- int argvIndex
- unsigned char omit

The documentation for this struct was generated from the following files:

- sqlite3.c
- · sqlite3.h

3.108 sqlite3_index_info Struct Reference

Collaboration diagram for sqlite3_index_info:

Classes

- struct sqlite3_index_constraint
- struct sqlite3_index_constraint_usage
- · struct sqlite3_index_orderby

Public Attributes

- int nConstraint
- struct sqlite3_index_info::sqlite3_index_constraint * aConstraint
- · int nOrderBy
- struct sqlite3_index_info::sqlite3_index_orderby * aOrderBy
- struct sqlite3_index_info::sqlite3_index_constraint_usage * aConstraintUsage
- int idxNum
- · char * idxStr
- int needToFreeldxStr
- int orderByConsumed
- · double estimatedCost
- sqlite3_int64 estimatedRows
- int idxFlags
- sqlite3_uint64 colUsed

The documentation for this struct was generated from the following files:

- sqlite3.c
- · sqlite3.h

3.109 sqlite3_index_info::sqlite3_index_orderby Struct Reference

Public Attributes

- int iColumn
- · unsigned char desc

The documentation for this struct was generated from the following files:

- · sqlite3.c
- sqlite3.h

3.110 sqlite3_io_methods Struct Reference

Public Attributes

```
· int iVersion
int(* xClose )(sqlite3_file *)

    int(* xRead )(sqlite3 file *, void *, int iAmt, sqlite3 int64 iOfst)

    int(* xWrite )(sqlite3_file *, const void *, int iAmt, sqlite3_int64 iOfst)

    int(* xTruncate )(sqlite3_file *, sqlite3_int64 size)

int(* xSync )(sqlite3_file *, int flags)
• int(* xFileSize )(sqlite3_file *, sqlite3_int64 *pSize)

    int(* xLock )(sqlite3 file *, int)

int(* xUnlock )(sqlite3_file *, int)

    int(* xCheckReservedLock )(sqlite3_file *, int *pResOut)

    int(* xFileControl )(sqlite3_file *, int op, void *pArg)

    int(* xSectorSize )(sqlite3_file *)

    int(* xDeviceCharacteristics )(sqlite3_file *)

    int(* xShmMap )(sqlite3_file *, int iPg, int pgsz, int, void volatile **)

    int(* xShmLock )(sqlite3_file *, int offset, int n, int flags)

    void(* xShmBarrier )(sqlite3 file *)

    int(* xShmUnmap )(sqlite3 file *, int deleteFlag)

• int(* xFetch )(sqlite3_file *, sqlite3_int64 iOfst, int iAmt, void **pp)

    int(* xUnfetch )(sqlite3_file *, sqlite3_int64 iOfst, void *p)
```

The documentation for this struct was generated from the following files:

- · sqlite3.c
- · sqlite3.h

3.111 sglite3 mem methods Struct Reference

Public Attributes

```
void *(* xMalloc )(int)
void(* xFree )(void *)
void *(* xRealloc )(void *, int)
int(* xSize )(void *)
int(* xRoundup )(int)
int(* xInit )(void *)
void(* xShutdown )(void *)
void * pAppData
```

The documentation for this struct was generated from the following files:

- sqlite3.c
- sqlite3.h

3.112 sqlite3_module Struct Reference

Public Attributes

```
    int iVersion
```

- int(* xCreate)(sqlite3 *, void *pAux, int argc, const char *const *argv, sqlite3 vtab **ppVTab, char **)
- int(* xConnect)(sqlite3 *, void *pAux, int argc, const char *const *argv, sqlite3_vtab **ppVTab, char **)
- int(* xBestIndex)(sqlite3_vtab *pVTab, sqlite3_index_info *)
- int(* xDisconnect)(sqlite3_vtab *pVTab)
- int(* xDestroy)(sqlite3 vtab *pVTab)
- int(* xOpen)(sqlite3 vtab *pVTab, sqlite3 vtab cursor **ppCursor)
- int(* xClose)(sqlite3_vtab_cursor *)
- int(* xFilter)(sqlite3_vtab_cursor *, int idxNum, const char *idxStr, int argc, sqlite3_value **argv)
- int(* xNext)(sqlite3_vtab_cursor *)
- int(* xEof)(sqlite3_vtab_cursor *)
- int(* xColumn)(sqlite3 vtab cursor *, sqlite3 context *, int)
- int(* xRowid)(sqlite3_vtab_cursor *, sqlite3_int64 *pRowid)
- int(* xUpdate)(sqlite3_vtab *, int, sqlite3_value **, sqlite3_int64 *)
- int(* xBegin)(sqlite3_vtab *pVTab)
- int(* xSync)(sqlite3_vtab *pVTab)
- int(* xCommit)(sqlite3_vtab *pVTab)
- int(* xRollback)(sqlite3_vtab *pVTab)
- int(* xFindFunction)(sqlite3_vtab *pVtab, int nArg, const char *zName, void(**pxFunc)(sqlite3_context *, int, sqlite3_value **), void **ppArg)
- int(* xRename)(sqlite3_vtab *pVtab, const char *zNew)
- int(* xSavepoint)(sqlite3_vtab *pVTab, int)
- int(* xRelease)(sqlite3_vtab *pVTab, int)
- int(* xRollbackTo)(sqlite3 vtab *pVTab, int)

The documentation for this struct was generated from the following files:

- sqlite3.c
- · sqlite3.h

3.113 sqlite3_mutex Struct Reference

Public Attributes

• pthread mutex t mutex

The documentation for this struct was generated from the following file:

• sqlite3.c

3.114 sqlite3 mutex methods Struct Reference

Collaboration diagram for sqlite3_mutex_methods:

Public Attributes

```
int(* xMutexInit )(void)
int(* xMutexEnd )(void)
sqlite3_mutex *(* xMutexAlloc )(int)
void(* xMutexFree )(sqlite3_mutex *)
void(* xMutexEnter )(sqlite3_mutex *)
int(* xMutexTry )(sqlite3_mutex *)
void(* xMutexLeave )(sqlite3_mutex *)
int(* xMutexHeld )(sqlite3_mutex *)
int(* xMutexNotheld )(sqlite3_mutex *)
```

The documentation for this struct was generated from the following files:

- · sqlite3.c
- · sqlite3.h

3.115 sqlite3_pcache_methods Struct Reference

Public Attributes

- void * pArg
- int(* xInit)(void *)
- void(* xShutdown)(void *)
- sqlite3_pcache *(* xCreate)(int szPage, int bPurgeable)
- void(* xCachesize)(sqlite3_pcache *, int nCachesize)
- int(* xPagecount)(sqlite3_pcache *)
- void *(* xFetch)(sqlite3_pcache *, unsigned key, int createFlag)
- void(* xUnpin)(sqlite3_pcache *, void *, int discard)
- void(* **xRekey**)(sqlite3_pcache *, void *, unsigned oldKey, unsigned newKey)
- void(* xTruncate)(sqlite3_pcache *, unsigned iLimit)
- void(* xDestroy)(sqlite3_pcache *)

The documentation for this struct was generated from the following files:

- sqlite3.c
- · sqlite3.h

3.116 sqlite3_pcache_methods2 Struct Reference

Collaboration diagram for sqlite3_pcache_methods2:

Public Attributes

- · int iVersion
- void * pArg
- int(* xInit)(void *)
- void(* xShutdown)(void *)
- sqlite3_pcache *(* xCreate)(int szPage, int szExtra, int bPurgeable)
- void(* xCachesize)(sqlite3_pcache *, int nCachesize)
- int(* xPagecount)(sqlite3_pcache *)
- sqlite3_pcache_page *(* xFetch)(sqlite3_pcache *, unsigned key, int createFlag)
- void(* xUnpin)(sqlite3_pcache *, sqlite3_pcache_page *, int discard)
- void(* xRekey)(sqlite3_pcache *, sqlite3_pcache_page *, unsigned oldKey, unsigned newKey)
- void(* xTruncate)(sqlite3_pcache *, unsigned iLimit)
- void(* xDestroy)(sqlite3_pcache *)
- void(* xShrink)(sqlite3_pcache *)

The documentation for this struct was generated from the following files:

- · sqlite3.c
- · sqlite3.h

3.117 sqlite3_pcache_page Struct Reference

Public Attributes

- void * pBuf
- void * pExtra

The documentation for this struct was generated from the following files:

- sqlite3.c
- · sqlite3.h

3.118 sqlite3_rtree_geometry Struct Reference

Public Attributes

- void * pContext
- int nParam
- sqlite3 rtree dbl * aParam
- void * pUser
- void(* xDelUser)(void *)

The documentation for this struct was generated from the following files:

- sqlite3.c
- sqlite3.h

3.119 sqlite3_rtree_query_info Struct Reference

Collaboration diagram for sqlite3_rtree_query_info:

Public Attributes

- void * pContext
- int nParam
- sqlite3_rtree_dbl * aParam
- void * pUser
- void(* xDelUser)(void *)
- sqlite3_rtree_dbl * aCoord
- unsigned int * anQueue
- · int nCoord
- · int iLevel
- int mxLevel
- · sqlite3 int64 iRowid
- sqlite3_rtree_dbl rParentScore
- int eParentWithin
- int eWithin
- sqlite3_rtree_dbl rScore
- sqlite3_value ** apSqlParam

The documentation for this struct was generated from the following files:

- · sqlite3.c
- · sqlite3.h

3.120 sqlite3_vfs Struct Reference

Collaboration diagram for sqlite3_vfs:

Public Attributes

- · int iVersion
- · int szOsFile
- int mxPathname
- sqlite3_vfs * pNext
- const char * zName
- void * pAppData
- int(* xOpen)(sqlite3_vfs *, const char *zName, sqlite3_file *, int flags, int *pOutFlags)
- int(* xDelete)(sqlite3_vfs *, const char *zName, int syncDir)
- int(* xAccess)(sqlite3_vfs *, const char *zName, int flags, int *pResOut)
- int(* xFullPathname)(sqlite3_vfs *, const char *zName, int nOut, char *zOut)
- void *(* xDIOpen)(sqlite3_vfs *, const char *zFilename)
- void(* xDIError)(sqlite3_vfs *, int nByte, char *zErrMsg)
- void(*(* xDISym)(sqlite3_vfs *, void *, const char *zSymbol))(void)
- void(* xDIClose)(sqlite3_vfs *, void *)
- int(* xRandomness)(sqlite3_vfs *, int nByte, char *zOut)

- int(* xSleep)(sqlite3_vfs *, int microseconds)
- int(* xCurrentTime)(sqlite3_vfs *, double *)
- int(* xGetLastError)(sqlite3_vfs *, int, char *)
- int(* xCurrentTimeInt64)(sqlite3_vfs *, sqlite3_int64 *)
- int(* xSetSystemCall)(sqlite3_vfs *, const char *zName, sqlite3_syscall_ptr)
- sqlite3_syscall_ptr(* **xGetSystemCall**)(sqlite3_vfs *, const char *zName)
- const char *(* xNextSystemCall)(sqlite3_vfs *, const char *zName)

The documentation for this struct was generated from the following files:

- · sqlite3.c
- · sqlite3.h

3.121 sqlite3_vtab Struct Reference

Collaboration diagram for sqlite3_vtab:

Public Attributes

- const sqlite3_module * pModule
- int nRef
- char * zErrMsg

The documentation for this struct was generated from the following files:

- sqlite3.c
- · sqlite3.h

3.122 sqlite3_vtab_cursor Struct Reference

Collaboration diagram for sqlite3_vtab_cursor:

Public Attributes

sqlite3_vtab * pVtab

The documentation for this struct was generated from the following files:

- sqlite3.c
- sqlite3.h

3.123 Sqlite3Config Struct Reference

Collaboration diagram for Sqlite3Config:

Public Attributes

- · int bMemstat
- int bCoreMutex
- int **bFullMutex**
- · int bOpenUri
- int bUseCis
- int mxStrlen
- int neverCorrupt
- int szLookaside
- int nLookaside
- int nStmtSpill
- sqlite3_mem_methods **m**
- sqlite3_mutex_methods mutex
- sqlite3_pcache_methods2 pcache2
- void * pHeap
- int nHeap
- · int mnReq
- · int mxReq
- sqlite3_int64 szMmap
- sqlite3_int64 mxMmap
- void * pScratch
- · int szScratch
- · int nScratch
- void * pPage
- int szPage
- int nPage
- int mxParserStack
- int sharedCacheEnabled
- u32 **szPma**
- int islnit
- int inProgress
- · int isMutexInit
- int isMallocInit
- int isPCacheInit
- int nRefInitMutex
- sqlite3_mutex * plnitMutex
- void(* xLog)(void *, int, const char *)
- void * pLogArg
- int(* xTestCallback)(int)
- int bLocaltimeFault
- int iOnceResetThreshold

The documentation for this struct was generated from the following file:

3.124 sqlite3::sqlite3InitInfo Struct Reference

Public Attributes

- int newTnum
- u8 **iDb**
- u8 **busy**
- u8 orphanTrigger
- u8 imposterTable

The documentation for this struct was generated from the following file:

• sqlite3.c

3.125 SQLiteThread Struct Reference

Public Attributes

- pthread_t tid
- int done
- void * pOut
- void *(* xTask)(void *)
- void * pln

The documentation for this struct was generated from the following file:

sqlite3.c

3.126 SrcCount Struct Reference

Collaboration diagram for SrcCount:

Public Attributes

- SrcList * pSrc
- int nThis
- int nOther

The documentation for this struct was generated from the following file:

3.127 SrcList Struct Reference

Collaboration diagram for SrcList:

Classes

struct SrcList_item

Public Attributes

- int nSrc
- u32 nAlloc
- struct SrcList::SrcList_item a [1]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.128 SrcList::SrcList_item Struct Reference

Collaboration diagram for SrcList::SrcList_item:

Public Attributes

Schema * pSchemachar * zDatabase

```
char * zName
• char * zAlias

    Table * pTab

Select * pSelect
• int addrFillSub
• int regReturn

    int regResult

struct {
    u8 jointype
    unsigned notIndexed:1
    unsigned isIndexedBy:1
    unsigned isTabFunc:1
    unsigned isCorrelated:1
    unsigned viaCoroutine:1
    unsigned isRecursive:1
 } fg
• u8 iSelectId
• int iCursor
```

Expr * pOnIdList * pUsingBitmask colUsed

```
    union {
        char * zIndexedBy
        ExprList * pFuncArg
    } u1
```

Index * plBIndex

The documentation for this struct was generated from the following file:

• sqlite3.c

3.129 Stat4Accum Struct Reference

Collaboration diagram for Stat4Accum:

Public Attributes

- tRowent nRow
- tRowcnt nPSample
- int nCol
- int nKeyCol
- · int mxSample
- Stat4Sample current
- u32 iPrn
- Stat4Sample * aBest
- int iMin
- int nSample
- int iGet
- Stat4Sample * a
- sqlite3 * db

The documentation for this struct was generated from the following file:

• sqlite3.c

3.130 Stat4Sample Struct Reference

Public Attributes

- tRowcnt * anEq
- tRowcnt * anDLt

The documentation for this struct was generated from the following file:

3.131 StrAccum Struct Reference

Collaboration diagram for StrAccum:

Public Attributes

- sqlite3 * db
- char * zBase
- char * zText
- u32 nChar
- u32 nAlloc
- u32 mxAlloc
- u8 accError
- u8 printfFlags

The documentation for this struct was generated from the following file:

• sqlite3.c

3.132 SubProgram Struct Reference

Collaboration diagram for SubProgram:

Public Attributes

- VdbeOp * aOp
- int nOp
- int nMem
- int nCsr
- void * token
- SubProgram * pNext

The documentation for this struct was generated from the following file:

• sqlite3.c

3.133 SumCtx Struct Reference

Public Attributes

- double rSum
- i64 **iSum**
- i64 cnt
- u8 overflow
- u8 approx

The documentation for this struct was generated from the following file:

3.134 Table Struct Reference

Collaboration diagram for Table:

Public Attributes

- char * zName
- Column * aCol
- Index * pIndex
- Select * pSelect
- FKey * pFKey
- char * zColAff
- ExprList * pCheck
- int tnum
- i16 iPKey
- i16 **nCol**
- u16 nRef
- LogEst nRowLogEst
- LogEst szTabRow
- u8 tabFlags
- u8 keyConf
- int addColOffset
- int nModuleArg
- char ** azModuleArg
- VTable * pVTable
- Trigger * pTrigger
- Schema * pSchema
- Table * pNextZombie

The documentation for this struct was generated from the following file:

• sqlite3.c

3.135 TableLock Struct Reference

Public Attributes

- int iDb
- int iTab
- u8 isWriteLock
- const char * zName

The documentation for this struct was generated from the following file:

3.136 TabResult Struct Reference

Public Attributes

- char ** azResult
- char * zErrMsg
- u32 nAlloc
- u32 **nRow**
- u32 nColumn
- u32 nData
- int rc

The documentation for this struct was generated from the following file:

· sqlite3.c

3.137 Token Struct Reference

Public Attributes

- const char * z
- unsigned int n

The documentation for this struct was generated from the following file:

• sqlite3.c

3.138 TrigEvent Struct Reference

Collaboration diagram for TrigEvent:

Public Attributes

- int **a**
- IdList * b

The documentation for this struct was generated from the following file:

• sqlite3.c

3.139 Trigger Struct Reference

Collaboration diagram for Trigger:

Public Attributes

- char * zName
- char * table
- u8 **op**
- u8 tr_tm
- Expr * pWhen
- IdList * pColumns
- Schema * pSchema
- Schema * pTabSchema
- TriggerStep * step_list
- Trigger * pNext

The documentation for this struct was generated from the following file:

• sqlite3.c

3.140 TriggerPrg Struct Reference

Collaboration diagram for TriggerPrg:

Public Attributes

- Trigger * pTrigger
- TriggerPrg * pNext
- $\bullet \ \ SubProgram * pProgram$
- · int orconf
- u32 aColmask [2]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.141 TriggerStep Struct Reference

Collaboration diagram for TriggerStep:

Public Attributes

- u8 **op**
- u8 orconf
- Trigger * pTrig
- Select * pSelect
- char * zTarget
- Expr * pWhere
- ExprList * pExprList
- IdList * pldList
- TriggerStep * pNext
- TriggerStep * pLast

The documentation for this struct was generated from the following file:

3.142 Truck Class Reference

Truck Class.

```
#include <Truck.h>
```

Public Member Functions

• Truck (const double)

Truck constructor.

• int getTruckID () const

Getter for Truck ID Number.

• double getWeight () const

Getter for truck's weight limit.

vector< Package * > getPackages () const

Getter for package vector.

vector< string * > getDirections () const

Getter for directions vector.

void setDirections (vector< string * >)

Setter for directions vector.

void addPackage (Package *)

Adds a package to the truck.

void deliverPackage (Package *pack)

Delivers a package.

• string toString () const

Returns a string representation of the truck and its contents.

Static Public Attributes

• static int truckCount = 0

A count of the total number of trucks on the road.

Private Attributes

· const int truckID

This truck's identification number.

· double weight

This truck's weight limit.

• double currentWeight = 0

The current weight of the truck's load of packages.

vector< Package * > packages

Vector storing the truck's current load of packages.

vector< string * > directions

Vector of strings storing the directions for this truck.

3.142.1 Detailed Description

Truck Class.

This Truck class defines a truck. It is responsible for holding a list of all packages in its delivery queue and a list of instructions for delivering those packages.

3.142.2 Constructor & Destructor Documentation

3.142.2.1 Truck::Truck (const double w)

Truck constructor.

Constructor.

Parameters

weight	Weight limit
W	Weight limit for this truck

3.142.3 Member Function Documentation

3.142.3.1 void Truck::addPackage (Package * pack)

Adds a package to the truck.

Add a package to the truck.

Adds a package to the truck and adds its weight to the current load

Parameters

pack A package object

Adds a package to the truck. If this would go over the weight limit of the truck, then it throws an error. It also adds the weight of the package to the truck if the package fits.

Parameters

*pack	Pointer to package
-------	--------------------

3.142.3.2 void Truck::deliverPackage (Package * pack)

Delivers a package.

Delivers package.

```
Removes a package from the truck, subtracts its weight, and sets the package's delivered flag.
sets delivered flag to true if this package is in the vector
3.142.3.3 vector < string * > Truck::getDirections ( ) const
Getter for directions vector.
Get directions assigned to this truck.
Returns
      the vector containing the truck's current list of directions
      vector<string*>
3.142.3.4 vector< Package * > Truck::getPackages ( ) const
Getter for package vector.
Gets truck's currently loaded packages.
return vector<Package*>
3.142.3.5 int Truck::getTruckID ( ) const
Getter for Truck ID Number.
Gets this truck's ID number.
Returns
      int Truck ID number
return int
3.142.3.6 double Truck::getWeight ( ) const
Getter for truck's weight limit.
Gets truck's weight limit.
Returns
      double Truck's weight limit
      double
3.142.3.7 void Truck::setDirections ( vector< string * > direct )
Setter for directions vector.
```

Parameters

directions	a pointer to a vector contianing the truck's assigned direction	
direct	pointer to directions vector	

3.142.3.8 string Truck::toString () const

Returns a string representation of the truck and its contents.

To string.

Returns

string A string representation of the truck and its contents

3.142.4 Member Data Documentation

```
3.142.4.1 int Truck::truckCount = 0 [static]
```

A count of the total number of trucks on the road.

Initialize truck count.

The documentation for this class was generated from the following files:

- Truck.h
- Truck.cpp

3.143 unixFile Struct Reference

Collaboration diagram for unixFile:

Public Attributes

- sqlite3_io_methods const * pMethod
- sqlite3 vfs * pVfs
- unixInodeInfo * plnode
- int h
- unsigned char eFileLock
- unsigned short int ctrlFlags
- int lastErrno
- void * lockingContext
- UnixUnusedFd * pUnused
- const char * zPath
- unixShm * pShm
- · int szChunk

The documentation for this struct was generated from the following file:

3.144 unixFileId Struct Reference

Public Attributes

- dev_t dev
- ino_t ino

The documentation for this struct was generated from the following file:

• sqlite3.c

3.145 unixInodeInfo Struct Reference

Collaboration diagram for unixInodeInfo:

Public Attributes

- · struct unixFileId fileId
- int nShared
- unsigned char eFileLock
- unsigned char bProcessLock
- · int nRef
- unixShmNode * pShmNode
- int nLock
- UnixUnusedFd * pUnused
- unixInodeInfo * pNext
- unixInodeInfo * pPrev

The documentation for this struct was generated from the following file:

• sqlite3.c

3.146 unixShm Struct Reference

Collaboration diagram for unixShm:

Public Attributes

- unixShmNode * pShmNode
- unixShm * pNext
- u8 hasMutex
- u8 **id**
- u16 sharedMask
- u16 exclMask

The documentation for this struct was generated from the following file:

3.147 unixShmNode Struct Reference

Collaboration diagram for unixShmNode:

Public Attributes

- unixInodeInfo * pInode
- sqlite3_mutex * mutex
- char * zFilename
- int **h**
- int szRegion
- u16 nRegion
- u8 isReadonly
- char ** apRegion
- · int nRef
- unixShm * pFirst

The documentation for this struct was generated from the following file:

• sqlite3.c

3.148 UnixUnusedFd Struct Reference

Collaboration diagram for UnixUnusedFd:

Public Attributes

- int **fd**
- int flags
- UnixUnusedFd * pNext

The documentation for this struct was generated from the following file:

• sqlite3.c

3.149 UnpackedRecord Struct Reference

Collaboration diagram for UnpackedRecord:

Public Attributes

- KeyInfo * pKeyInfo
- Mem * aMem
- u16 nField
- i8 default_rc
- u8 errCode
- i8 **r1**
- i8 **r2**
- u8 eqSeen

The documentation for this struct was generated from the following file:

• sqlite3.c

3.150 ValueNewStat4Ctx Struct Reference

Collaboration diagram for ValueNewStat4Ctx:

Public Attributes

- Parse * pParse
- Index * pldx
- UnpackedRecord ** ppRec
- int iVal

The documentation for this struct was generated from the following file:

• sqlite3.c

3.151 Vdbe Struct Reference

Collaboration diagram for Vdbe:

Public Attributes

- sqlite3 * db
- Vdbe * pPrev
- Vdbe * pNext
- Parse * pParse
- ynVar nVar
- ynVar nzVar
- u32 magic
- int **nMem**
- · int nCursor
- u32 cacheCtr
- int pc
- int rc
- int nChange
- int iStatement
- i64 iCurrentTime
- i64 nFkConstraint
- i64 nStmtDefCons
- i64 nStmtDeflmmCons
- Op * aOp
- Mem * aMem
- Mem ** apArg
- Mem * aColName
- Mem * pResultSet
- char * zErrMsg
- VdbeCursor ** apCsr
- Mem * aVar
- char ** azVar
- i64 startTime
- int nOp
- u16 nResColumn
- u8 errorAction
- u8 minWriteFileFormat
- bft expired:1
- bft doingRerun:1
- bft explain:2
- bft changeCntOn:1
- bft runOnlyOnce:1
- bft usesStmtJournal:1
- bft readOnly:1
- bft blsReader:1
- bft isPrepareV2:1
- yDbMask btreeMask
- yDbMask lockMask
- u32 aCounter [5]
- char * zSql
- void * pFree
- VdbeFrame * pFrame
- VdbeFrame * pDelFrame
- int nFrame
- u32 expmask
- SubProgram * pProgram
- AuxData * pAuxData

The documentation for this struct was generated from the following file:

3.152 VdbeCursor Struct Reference

Collaboration diagram for VdbeCursor:

Public Attributes

- u8 eCurType
- i8 **iDb**
- u8 nullRow
- u8 deferredMoveto
- u8 isTable
- Bool isEphemeral:1
- Bool useRandomRowid:1
- · Bool isOrdered:1
- Pgno pgnoRoot
- i16 nField
- u16 nHdrParsed

```
    union {
        BtCursor * pCursor
        sqlite3_vtab_cursor * pVCur
        int pseudoTableReg
        VdbeSorter * pSorter
    } uc
```

- Btree * pBt
- KeyInfo * pKeyInfo
- int seekResult
- i64 seqCount
- i64 movetoTarget
- VdbeCursor * pAltCursor
- int * aAltMap
- u32 cacheStatus
- u32 payloadSize
- u32 **szRow**
- u32 iHdrOffset
- const u8 * aRow
- u32 * **aOffset**
- u32 aType [1]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.153 VdbeFrame Struct Reference

Collaboration diagram for VdbeFrame:

Public Attributes

- Vdbe * v
- VdbeFrame * pParent
- Op * aOp
- i64 * anExec
- Mem * aMem
- VdbeCursor ** apCsr
- void * token
- i64 lastRowid
- AuxData * pAuxData
- int nCursor
- int pc
- int nOp
- int nMem
- int nChildMem
- int nChildCsr
- int nChange
- int nDbChange

The documentation for this struct was generated from the following file:

• sqlite3.c

3.154 VdbeOp Struct Reference

Collaboration diagram for VdbeOp:

Classes

• union p4union

Public Attributes

- u8 opcode
- · signed char p4type
- u8 notUsed1
- u8 **p5**
- int **p1**
- int **p2**
- int **p3**
- union VdbeOp::p4union p4

The documentation for this struct was generated from the following file:

3.155 VdbeOpList Struct Reference

Public Attributes

- u8 opcode
- signed char p1
- signed char p2
- signed char p3

The documentation for this struct was generated from the following file:

· sqlite3.c

3.156 VdbeSorter Struct Reference

Collaboration diagram for VdbeSorter:

Public Attributes

- int mnPmaSize
- int mxPmaSize
- int mxKeysize
- int pgsz
- PmaReader * pReader
- MergeEngine * pMerger
- sqlite3 * db
- KeyInfo * pKeyInfo
- UnpackedRecord * pUnpacked
- SorterList list
- int iMemory
- int nMemory
- u8 bUsePMA
- u8 bUseThreads
- u8 iPrev
- u8 nTask
- u8 typeMask
- SortSubtask aTask [1]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.157 VtabCtx Struct Reference

Collaboration diagram for VtabCtx:

Public Attributes

- VTable * pVTable
- Table * pTab
- VtabCtx * pPrior
- · int bDeclared

The documentation for this struct was generated from the following file:

• sqlite3.c

3.158 VTable Struct Reference

Collaboration diagram for VTable:

Public Attributes

- sqlite3 * db
- Module * pMod
- sqlite3_vtab * pVtab
- int nRef
- u8 bConstraint
- int iSavepoint
- VTable * pNext

The documentation for this struct was generated from the following file:

• sqlite3.c

3.159 vxworksFileId Struct Reference

Collaboration diagram for vxworksFileId:

Public Attributes

- struct vxworksFileId * pNext
- int nRef
- int nName
- char * zCanonicalName

The documentation for this struct was generated from the following file:

3.160 Wal Struct Reference

Collaboration diagram for Wal:

Public Attributes

- sqlite3_vfs * pVfs
- sqlite3_file * pDbFd
- sqlite3_file * pWalFd
- u32 iCallback
- i64 mxWalSize
- int nWiData
- int szFirstBlock
- volatile u32 ** apWiData
- u32 szPage
- i16 readLock
- u8 syncFlags
- u8 exclusiveMode
- u8 writeLock
- u8 ckptLock
- u8 readOnly
- u8 truncateOnCommit
- u8 syncHeader
- u8 padToSectorBoundary
- WallndexHdr hdr
- u32 minFrame
- u32 iReCksum
- · const char * zWalName
- u32 nCkpt

The documentation for this struct was generated from the following file:

• sqlite3.c

3.161 WalCkptInfo Struct Reference

Public Attributes

- u32 nBackfill
- u32 aReadMark [WAL_NREADER]
- u8 aLock [SQLITE_SHM_NLOCK]
- u32 nBackfillAttempted
- u32 notUsed0

The documentation for this struct was generated from the following file:

3.162 WallndexHdr Struct Reference

Public Attributes

- u32 iVersion
- u32 unused
- u32 iChange
- u8 islnit
- u8 bigEndCksum
- u16 szPage
- u32 mxFrame
- u32 nPage
- u32 aFrameCksum [2]
- u32 **aSalt** [2]
- u32 aCksum [2]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.163 Wallterator Struct Reference

Collaboration diagram for Wallterator:

Classes

struct WalSegment

Public Attributes

- int iPrior
- int nSegment
- struct Wallterator::WalSegment aSegment [1]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.164 Walker Struct Reference

Collaboration diagram for Walker:

Public Attributes

```
Parse * pParse
int(* xExprCallback )(Walker *, Expr *)
int(* xSelectCallback )(Walker *, Select *)

    void(* xSelectCallback2 )(Walker *, Select *)

• int walkerDepth
• u8 eCode
union {
    NameContext * pNC
   int n
   int iCur
    SrcList * pSrcList
    struct SrcCount * pSrcCount
   struct CCurHint * pCCurHint
   int * aiCol
   struct IdxCover * pldxCover
 } u
```

The documentation for this struct was generated from the following file:

• sqlite3.c

3.165 Wallterator::WalSegment Struct Reference

Public Attributes

- int iNext
- ht slot * alndex
- u32 * aPgno
- int nEntry
- int iZero

The documentation for this struct was generated from the following file:

• sqlite3.c

3.166 WalWriter Struct Reference

Collaboration diagram for WalWriter:

Public Attributes

```
Wal * pWal
sqlite3_file * pFd
sqlite3_int64 iSyncPoint
int syncFlags
```

• int szPage

The documentation for this struct was generated from the following file:

3.167 WhereAndInfo Struct Reference

Collaboration diagram for WhereAndInfo:

Public Attributes

· WhereClause wc

The documentation for this struct was generated from the following file:

• sqlite3.c

3.168 WhereClause Struct Reference

Collaboration diagram for WhereClause:

Public Attributes

- WhereInfo * pWInfo
- WhereClause * pOuter
- u8 **op**
- int nTerm
- int nSlot
- WhereTerm * a
- WhereTerm aStatic [8]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.169 WhereInfo Struct Reference

Collaboration diagram for WhereInfo:

Public Attributes

- Parse * pParse
- SrcList * pTabList
- ExprList * pOrderBy
- ExprList * pDistinctSet
- · LogEst iLimit
- int aiCurOnePass [2]
- int iContinue
- · int iBreak
- int savedNQueryLoop
- u16 wctrlFlags
- u8 nLevel
- i8 nOBSat
- u8 sorted
- u8 eOnePass
- u8 untestedTerms
- u8 eDistinct
- u8 bOrderedInnerLoop
- int iTop
- WhereLoop * pLoops
- Bitmask revMask
- LogEst nRowOut
- WhereClause sWC
- WhereMaskSet sMaskSet
- WhereLevel a [1]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.170 WhereLevel Struct Reference

Collaboration diagram for WhereLevel:

Public Attributes

- int iLeftJoin
- int iTabCur
- int ildxCur
- int addrBrk
- int addrNxt
- int addrSkip
- int addrCont
- int addrFirst
- int addrBody
- u32 iLikeRepCntr
- int addrLikeRep
- u8 **iFrom**
- u8 **op**
- u8 p3

```
• u8 p5
• int p1
• int p2
• union {
   struct {
      int nln
      struct InLoop {
        int iCur
        int addrInTop
        u8 eEndLoopOp
     } alnLoop
   } in
   Index * pCovidx
 } u
struct WhereLoop * pWLoop
· Bitmask notReady
```

The documentation for this struct was generated from the following file:

• sqlite3.c

3.171 WhereLoop Struct Reference

Collaboration diagram for WhereLoop:

Public Attributes

```
· Bitmask prereq
• Bitmask maskSelf
• u8 iTab
• u8 iSortldx

    LogEst rSetup

· LogEst rRun

    LogEst nOut

• union {
   struct {
      u16 nEq
      u16 nBtm
      u16 nTop
      Index * pIndex
   } btree
    struct {
      int idxNum
      u8 needFree
      i8 isOrdered
      u16 omitMask
      char * idxStr
   } vtab
 } u
```

• u32 wsFlags

- u16 nLTerm
- u16 nSkip
- u16 nLSlot
- WhereTerm ** aLTerm
- WhereLoop * pNextLoop
- WhereTerm * aLTermSpace [3]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.172 WhereLoopBuilder Struct Reference

Collaboration diagram for WhereLoopBuilder:

Public Attributes

- WhereInfo * pWInfo
- WhereClause * pWC
- ExprList * pOrderBy
- WhereLoop * pNew
- WhereOrSet * pOrSet

The documentation for this struct was generated from the following file:

• sqlite3.c

3.173 WhereMaskSet Struct Reference

Public Attributes

- int **n**
- int ix [BMS]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.174 WhereOrCost Struct Reference

Public Attributes

- Bitmask prereq
- · LogEst rRun
- LogEst nOut

The documentation for this struct was generated from the following file:

3.175 WhereOrInfo Struct Reference

Collaboration diagram for WhereOrInfo:

Public Attributes

- · WhereClause wc
- · Bitmask indexable

The documentation for this struct was generated from the following file:

• sqlite3.c

3.176 WhereOrSet Struct Reference

Collaboration diagram for WhereOrSet:

Public Attributes

- u16 **n**
- WhereOrCost a [N_OR_COST]

The documentation for this struct was generated from the following file:

· sqlite3.c

3.177 WherePath Struct Reference

Collaboration diagram for WherePath:

Public Attributes

- · Bitmask maskLoop
- Bitmask revLoop
- LogEst nRow
- LogEst rCost
- LogEst rUnsorted
- i8 isOrdered
- WhereLoop ** aLoop

The documentation for this struct was generated from the following file:

3.178 WhereScan Struct Reference

Collaboration diagram for WhereScan:

Public Attributes

```
WhereClause * pOrigWC
```

- WhereClause * pWC
- const char * zCollName
- Expr * pldxExpr
- char idxaff
- unsigned char nEquiv
- unsigned char iEquiv
- u32 opMask
- int k
- int aiCur [11]
- i16 aiColumn [11]

The documentation for this struct was generated from the following file:

· sqlite3.c

3.179 WhereTerm Struct Reference

Collaboration diagram for WhereTerm:

Public Attributes

```
• Expr * pExpr
```

- WhereClause * pWC
- LogEst truthProb
- u16 wtFlags
- u16 eOperator
- u8 nChild
- u8 eMatchOp
- int iParent
- · int leftCursor
- int iField
- union {

```
int leftColumn
WhereOrInfo * pOrInfo
WhereAndInfo * pAndInfo
} u
```

- Bitmask prereqRight
- Bitmask prereqAll

The documentation for this struct was generated from the following file:

3.180 With Struct Reference

3.180 With Struct Reference

Collaboration diagram for With:

Classes

struct Cte

Public Attributes

- int nCte
- With * pOuter
- struct With::Cte a [1]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.181 Parse::yColCache Struct Reference

Public Attributes

- int iTable
- i16 iColumn
- u8 tempReg
- int iLevel
- int iReg
- int Iru

The documentation for this struct was generated from the following file:

• sqlite3.c

3.182 YYMINORTYPE Union Reference

Collaboration diagram for YYMINORTYPE:

Public Attributes

```
· int yyinit
• sqlite3ParserTOKENTYPE yy0

    Expr * yy72

TriggerStep * yy145
• ExprList * yy148

    SrcList * yy185

• ExprSpan yy190
• int yy194

    Select * yy243

    IdList * yy254

• With * yy285

    struct TrigEvent yy332

    struct LimitVal yy354

struct {
    int value
    int mask
  } yy497
```

The documentation for this union was generated from the following file:

· sqlite3.c

3.183 yyParser Struct Reference

Collaboration diagram for yyParser:

Public Attributes

- yyStackEntry * yytos
- sqlite3ParserARG_SDECL yyStackEntry yystack [YYSTACKDEPTH]

The documentation for this struct was generated from the following file:

• sqlite3.c

3.184 yyStackEntry Struct Reference

Collaboration diagram for yyStackEntry:

Public Attributes

- YYACTIONTYPE stateno
- YYCODETYPE major
- YYMINORTYPE minor

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