# general\_ledger

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# General Ledger.

General Ledger will be a fully-featured, multi-user, open-source general ledger system. The project is in the early stages of development.

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# **Module Index**

## 2.1 Modules

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Program configuration module	 	
General purpose helpers	 	
Reporting program	 	
Database program	 	

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# **Class Index**

# 3.1 Class Hierarchy

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# **Class Index**

## 4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Configuration options class
genleg::ConfigBadConfigFile
Exception class for badly formed configuration file
genleg::ConfigBadOption
Exception class for bad provided option
genleg::ConfigCouldNotOpenFile
Exception class for when conf file cannot be opened
genleg::ConfigException
Configuration module exception base class
genleg::ConfigOptionNotSet
Exception class for option not set
gldb::DBConn
Database connection class
gldb::DBConnCouldNotConnect
Could not connect to database exception class
gldb::DBConnCouldNotQuery
Could not execute database query exception class
gldb::DBConnDummy
Dummy database implementation class
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Abstract database implementation base class
gldb::DBConnMySQL
MySQL database implementation class
genleg::DBSQLMySQL
MySQL SQL statements class
genleg::DBSQLStatements
SQL statements class
gldb::Table
Database table class
gldb::TableBadInputFile
Could not connect to database exception class
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Could not connect to database exception class
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# **Module Documentation**

#### 6.1 Database interaction module

#### **Classes**

· class gldb::DBConnException

Base database connection exception class.

class gldb::DBConnCouldNotConnect

Could not connect to database exception class.

· class gldb::DBConnCouldNotQuery

Could not execute database query exception class.

class gldb::DBConn

Database connection class.

class gldb::DBConnImp

Abstract database implementation base class.

class gldb::TableException

Base database connection exception class.

· class gldb::TableBadInputFile

Could not connect to database exception class.

class gldb::TableCouldNotOpenInputFile

Could not connect to database exception class.

· class gldb::Table

Database table class.

· class gldb::TableField

Database table field class.

· class gldb::TableRow

Database table row class.

· class gldb::DBConnDummy

Dummy database implementation class.

• class gldb::DBConnMySQL

MySQL database implementation class.

#### **Functions**

DBConnImp \* gldb::get\_connection (const std::string database, const std::string hostname, const std::string username, const std::string password)

Creates and returns a pointer to a database implementation.

• std::string gldb::get\_database\_type ()

Returns the name of the compiled-in database type.

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#### 6.1.1 Detailed Description

Module for interacting with the database.

#### 6.1.2 Function Documentation

6.1.2.1 DBConnImp \* gldb::get\_connection ( const std::string database, const std::string hostname, const std::string username, const std::string password )

Creates and returns a pointer to a database implementation.

The implementation of this function is provided by the individual database implementations. One database implementation is compiled into the program at any one time. Multiple database systems are, or will be, supported, and not every system will possess the libraries and headers to compile every implementation. Therefore, only only implementation is compiled in at a time. The fact that each database implementation will implement this function to return the correct derived class prevents any attempt to compile unsupported library code. This would not be feasible if we were to simply provide each implementation as a subclass.

#### **Parameters**

database	The name of the database to which to connect.
hostname	The hostname of the computer running the database.
username	The username with which to log into the database.
password	The password with which to log into the database.

#### Returns

A pointer to the database implementation.

6.1.2.2 std::string gldb::get\_database\_type ( )

Returns the name of the compiled-in database type.

#### Returns

The name of the compiled-in database type.

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### 6.2 SQL statements module

#### Classes

• class genleg::DBSQLMySQL

MySQL SQL statements class.

• class genleg::DBSQLStatements

SQL statements class.

### 6.2.1 Detailed Description

Module for producing SQL statements used by program.

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### 6.3 Program configuration module

#### Classes

· class genleg::ConfigException

Configuration module exception base class.

• class genleg::ConfigOptionNotSet

Exception class for option not set.

· class genleg::ConfigBadOption

Exception class for bad provided option.

• class genleg::ConfigCouldNotOpenFile

Exception class for when conf file cannot be opened.

• class genleg::ConfigBadConfigFile

Exception class for badly formed configuration file.

· class genleg::Config

Configuration options class.

#### **Enumerations**

• enum genleg::Argument

Enumeration class for option argument specifications.

#### 6.3.1 Detailed Description

Module for getting options from the command line and configuration files.

### 6.4 General purpose helpers.

#### **Functions**

std::string & pgstring::trim\_front (std::string &s)

Trims leading whitespace from a string.

std::string & pgstring::trim\_back (std::string &s)

Trims trailing whitespace from a string.

std::string & pgstring::trim (std::string &s)

Trims leading and trailing whitespace from a string.

• std::vector< std::string > pgstring::split (const std::string &s, const char delim)

Splits a delimited string into tokens.

std::vector< std::string > & pgstring::split (std::vector< std::string > &vec, const std::string &s, const char delim)

Splits a delimited string into tokens.

#### 6.4.1 Detailed Description

General purpose helper classes and functions.

#### 6.4.2 Function Documentation

6.4.2.1 std::vector< std::string > pgstring::split ( const std::string & s, const char delim )

Splits a delimited string into tokens.

#### **Parameters**

S	The string to split.
delim	The delimiter character on which to split.

#### Returns

A vector of tokens.

6.4.2.2 std::vector< std::string > & pgstring::split ( std::vector< std::string > & vec, const std::string & s, const char delim )

Splits a delimited string into tokens.

#### **Parameters**

vec	The vector into which to add the tokens.
S	The string to split.
delim	The delimiter character on which to split.

#### Returns

A reference to vec.

6.4.2.3 std::string & pgstring::trim ( std::string & s )

Trims leading and trailing whitespace from a string.

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#### **Parameters**

s	The string to trim.

#### Returns

The trimmed string.

6.4.2.4 std::string & pgstring::trim\_back ( std::string & s )

Trims trailing whitespace from a string.

#### **Parameters**

s	The string to trim.

#### Returns

The trimmed string.

6.4.2.5 std::string & pgstring::trim\_front ( std::string & s )

Trims leading whitespace from a string.

#### **Parameters**

s	The string to trim.

#### Returns

The trimmed string.

### 6.5 Reporting program.

#### **Functions**

• static void set\_configuration (genleg::Config &config, int argc, char \*argv[])

Sets program configuration options.

• static void print\_usage\_message ()

Prints a program usage message.

• static void print\_version\_message ()

Prints a program version message.

• static void print\_help\_message ()

Prints a program help message.

• static std::string login (void)

Gets a password from the terminal.

• int main (int argc, char \*argv[])

Main function.

#### **Variables**

static const char \* progname = "gl\_report"
 Static variable for program name.

#### 6.5.1 Detailed Description

Administrative reporting program.

#### 6.5.2 Function Documentation

```
6.5.2.1 static std::string login ( void ) [static]
```

Gets a password from the terminal.

Returns

The password.

```
6.5.2.2 int main ( int argc, char * argv[] )
```

Main function.

argc	Number of command line arguments.
argv	Command line arguments.

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#### Returns

Exit status code.

**6.5.2.3** static void set\_configuration ( genleg::Config & config, int argc, char \* argv[] ) [static]

Sets program configuration options.

config	Reference to a Config object.
argc	argc passed to main().
argv	argv passed to main().

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### 6.6 Database program.

#### **Functions**

• static void set\_configuration (Config &config, int argc, char \*argv[])

Sets program configuration options.

• static void print\_usage\_message ()

Prints a program usage message.

static void print\_version\_message ()

Prints a program version message.

• static void print\_help\_message ()

Prints a program help message.

• static std::string login (void)

Gets a password from the terminal.

• int main (int argc, char \*argv[])

Main function.

#### **Variables**

static const char \* progname = "gl\_db"
 Static variable for program name.

#### 6.6.1 Detailed Description

Administrative database management program.

#### 6.6.2 Function Documentation

```
6.6.2.1 static std::string login ( void ) [static]
```

Gets a password from the terminal.

#### Returns

The password.

```
6.6.2.2 int main ( int argc, char * argv[] )
```

Main function.

argc	Number of command line arguments.
argv	Command line arguments.

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#### Returns

Exit status code.

6.6.2.3 static void set\_configuration ( Config & config, int argc, char \* argv[] ) [static]

Sets program configuration options.

config	Reference to a Config object.
argc	argc passed to main().
argv	argv passed to main().

# **Class Documentation**

### 7.1 genleg::Config Class Reference

```
Configuration options class.
```

```
#include <config.h>
```

#### **Public Member Functions**

- Config ()
- $\sim$ Config ()
- void add\_cmdline\_option (const std::string option, const enum Argument arg)

Adds a supported command line option.

void populate\_from\_cmdline (const int argc, char \*const \*argv)

Populates options from the command line.

void populate\_from\_file (const std::string filename)

Populates options from a configuration file.

· bool is set (const std::string option) const

Checks is an option is set.

 const std::string & operator[] (const std::string & option) const operator[] overload.

#### **Private Attributes**

```
    std::map< std::string,
std::string > m_opts_set
    std::list< std::pair</li>
    std::string, enum Argument >> m_opts_supp
```

#### 7.1.1 Detailed Description

Configuration options class.

#### 7.1.2 Constructor & Destructor Documentation

```
7.1.2.1 Config::Config()
```

Constructor

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7.1.2.2 Config:: ∼Config ( )

Destructor

#### 7.1.3 Member Function Documentation

7.1.3.1 void Config::add\_cmdline\_option ( const std::string option, const enum Argument arg )

Adds a supported command line option.

#### **Parameters**

option	The name of the option.	
arg	The argument specification for the option.	

7.1.3.2 bool Config::is\_set ( const std::string option ) const

Checks is an option is set.

#### **Parameters**

option	The name of the option to check.

#### Returns

true if the option has been set, false if it has not.

7.1.3.3 const std::string & Config::operator[] ( const std::string & option ) const

operator[] overload.

Retrieves the value of a set option.

#### **Parameters**

option	The name of the option.

#### Returns

The value of the option.

### **Exceptions**

ConfigOptionNotSet If the named option has not been set.

7.1.3.4 void Config::populate\_from\_cmdline ( const int argc, char \*const \* argv )

Populates options from the command line.

argc	argc supplied to main().	
argv	argv supplied to main().	

#### **Exceptions**

ConfigBadOption	If an unsupported option is specified, or if a required argument is missing, or if an unex-
	pected argument is found.

7.1.3.5 void Config::populate\_from\_file ( const std::string filename )

Populates options from a configuration file.

#### **Parameters**

filename	The name of the configuration file.

#### **Exceptions**

ConfigCouldNotOpenFile	If the configuration file cannot be opened.
ConfigBadConfigFile	If the configuration file is badly formed.

#### 7.1.4 Member Data Documentation

**7.1.4.1** std::map<std::string, std::string> genleg::Config::m\_opts\_set [private]

Map of options which have been set

7.1.4.2 std::list<std::pair<std::string, enum Argument>> genleg::Config::m\_opts\_supp [private]

List of options which are supported

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

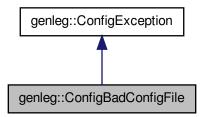
- lib/config/config.h
- lib/config/config.cpp
- lib/config/config\_getopt.cpp

## 7.2 genleg::ConfigBadConfigFile Class Reference

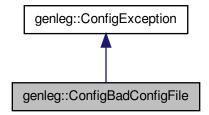
Exception class for badly formed configuration file.

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Inheritance diagram for genleg::ConfigBadConfigFile:



Collaboration diagram for genleg::ConfigBadConfigFile:



### 7.2.1 Detailed Description

Exception class for badly formed configuration file.

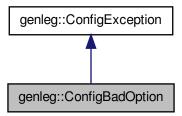
The documentation for this class was generated from the following file:

• lib/config/config.h

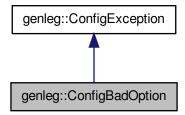
## 7.3 genleg::ConfigBadOption Class Reference

Exception class for bad provided option.

Inheritance diagram for genleg::ConfigBadOption:



Collaboration diagram for genleg::ConfigBadOption:



### 7.3.1 Detailed Description

Exception class for bad provided option.

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

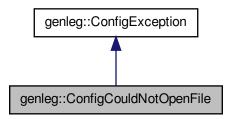
• lib/config/config.h

## 7.4 genleg::ConfigCouldNotOpenFile Class Reference

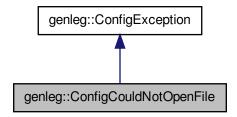
Exception class for when conf file cannot be opened.

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Inheritance diagram for genleg::ConfigCouldNotOpenFile:



Collaboration diagram for genleg::ConfigCouldNotOpenFile:



### 7.4.1 Detailed Description

Exception class for when conf file cannot be opened.

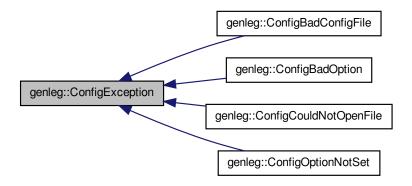
The documentation for this class was generated from the following file:

• lib/config/config.h

## 7.5 genleg::ConfigException Class Reference

Configuration module exception base class.

Inheritance diagram for genleg::ConfigException:



### 7.5.1 Detailed Description

Configuration module exception base class.

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

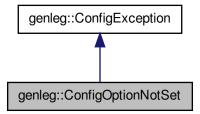
• lib/config/config.h

# 7.6 genleg::ConfigOptionNotSet Class Reference

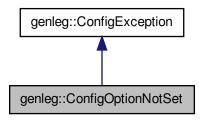
Exception class for option not set.

#include <config.h>

Inheritance diagram for genleg::ConfigOptionNotSet:



Collaboration diagram for genleg::ConfigOptionNotSet:



### 7.6.1 Detailed Description

Exception class for option not set.

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

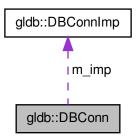
· lib/config/config.h

# 7.7 gldb::DBConn Class Reference

Database connection class.

#include <dbconn.h>

Collaboration diagram for gldb::DBConn:



#### **Public Member Functions**

• DBConn (DBConnImp \*imp)

Constructor.

• ∼DBConn ()

Destructor..

void query (std::string sql\_query)

Runs an SQL query.

• Table select (std::string query)

Runs an SQL SELECT query.

- DBConn (const DBConn &)
- DBConn & operator= (const DBConn &)

#### **Private Attributes**

• DBConnImp \* m imp

#### 7.7.1 Detailed Description

Database connection class.

#### 7.7.2 Constructor & Destructor Documentation

```
7.7.2.1 DBConn::DBConn( DBConnImp * imp ) [explicit]
```

Constructor.

#### **Parameters**

ami	Pointer to database im	plementation ob	iect.

### 7.7.2.2 gldb::DBConn::DBConn ( const DBConn & )

Deleted copy constructor

#### 7.7.3 Member Function Documentation

#### 7.7.3.1 DBConn& gldb::DBConn::operator= ( const DBConn & )

Deleted assignment operator

7.7.3.2 void DBConn::query ( std::string sql\_query )

Runs an SQL query.

#### **Parameters**

```
sql_query The query.
```

#### Returns

A Table object containing the results.

#### 7.7.3.3 Table DBConn::select ( std::string query )

Runs an SQL SELECT query.

#### **Parameters**

query	The query.

#### Returns

A Table object containing the results.

### 7.7.4 Member Data Documentation

7.7.4.1 DBConnImp\*gldb::DBConn::m\_imp [private]

Pointer to database implementation object.

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

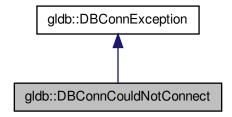
- · lib/database/dbconn.h
- lib/database/dbconn.cpp

# 7.8 gldb::DBConnCouldNotConnect Class Reference

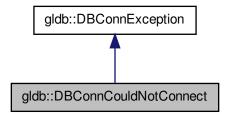
Could not connect to database exception class.

#include <dbconn.h>

Inheritance diagram for gldb::DBConnCouldNotConnect:



Collaboration diagram for gldb::DBConnCouldNotConnect:



#### **Public Member Functions**

DBConnCouldNotConnect (const std::string &msg)
 Constructor.

### 7.8.1 Detailed Description

Could not connect to database exception class.

#### 7.8.2 Constructor & Destructor Documentation

7.8.2.1 gldb::DBConnCouldNotConnect::DBConnCouldNotConnect ( const std::string & msg ) [inline], [explicit]

Constructor.

#### **Parameters**

msg Database error message

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

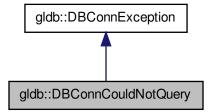
• lib/database/dbconn.h

### 7.9 gldb::DBConnCouldNotQuery Class Reference

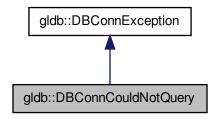
Could not execute database query exception class.

#include <dbconn.h>

Inheritance diagram for gldb::DBConnCouldNotQuery:



Collaboration diagram for gldb::DBConnCouldNotQuery:



#### **Public Member Functions**

DBConnCouldNotQuery (const std::string &msg)
 Constructor.

### 7.9.1 Detailed Description

Could not execute database query exception class.

#### 7.9.2 Constructor & Destructor Documentation

7.9.2.1 gldb::DBConnCouldNotQuery::DBConnCouldNotQuery ( const std::string & msg ) [inline], [explicit]

Constructor.

#### **Parameters**

msg Database error message

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

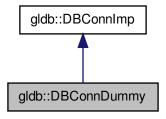
• lib/database/dbconn.h

# 7.10 gldb::DBConnDummy Class Reference

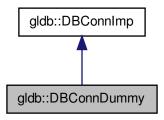
Dummy database implementation class.

#include <dbconn\_dummy\_imp.h>

Inheritance diagram for gldb::DBConnDummy:



Collaboration diagram for gldb::DBConnDummy:



### **Public Member Functions**

• DBConnDummy (const std::string database, const std::string hostname, const std::string username, const std::string password)

Constructor.

- DBConnDummy (const DBConnDummy &)
- virtual ~DBConnDummy ()
- DBConnDummy & operator= (const DBConnDummy &)
- Table select (std::string query)

Fakes running of an SQL SELECT query.

#### 7.10.1 Detailed Description

Dummy database implementation class.

#### 7.10.2 Constructor & Destructor Documentation

7.10.2.1 DBConnDummy::DBConnDummy ( const std::string *database*, const std::string *hostname*, const std::string *username*, const std::string *password* )

Constructor.

#### **Parameters**

database	The name of the Dummy database.
hostname	The hostname of the server.
username	The username to log into the database.
password	The password to log into the database.

7.10.2.2 gldb::DBConnDummy::DBConnDummy ( const DBConnDummy & )

Deleted copy constructor

7.10.2.3 DBConnDummy::~DBConnDummy( ) [virtual]

Destructor

#### 7.10.3 Member Function Documentation

7.10.3.1 DBConnDummy& gldb::DBConnDummy::operator= ( const DBConnDummy & )

Deleted assignment operator

7.10.3.2 Table DBConnDummy::select ( std::string query ) [virtual]

Fakes running of an SQL SELECT query.

#### **Parameters**

query	Any query.

#### Returns

A Table object containing dummy results.

Implements gldb::DBConnImp.

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

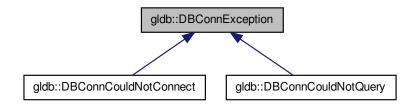
- lib/database\_imp/dummy/dbconn\_dummy\_imp.h
- lib/database\_imp/dummy/dbconn\_dummy\_imp.cpp

### 7.11 gldb::DBConnException Class Reference

Base database connection exception class.

#include <dbconn.h>

Inheritance diagram for gldb::DBConnException:



#### **Public Member Functions**

DBConnException (const std::string &msg)
 Constructor.

### 7.11.1 Detailed Description

Base database connection exception class.

#### 7.11.2 Constructor & Destructor Documentation

7.11.2.1 gldb::DBConnException::DBConnException (const std::string & msg) [inline], [explicit]

Constructor.

#### **Parameters**

msg Database error message

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

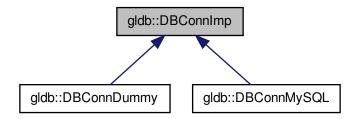
• lib/database/dbconn.h

# 7.12 gldb::DBConnImp Class Reference

Abstract database implementation base class.

#include <dbconnimp.h>

Inheritance diagram for gldb::DBConnImp:



#### **Public Member Functions**

- DBConnImp ()
- virtual ∼DBConnImp ()
- virtual void query (std::string sql\_query)=0

Runs an SQL query.

• virtual Table select (std::string query)=0

Runs an SQL SELECT query.

### 7.12.1 Detailed Description

Abstract database implementation base class.

### 7.12.2 Constructor & Destructor Documentation

7.12.2.1 gldb::DBConnlmp::DBConnlmp( ) [inline]

Constructor

7.12.2.2 virtual gldb::DBConnlmp::~DBConnlmp( ) [inline], [virtual]

Destructor

### 7.12.3 Member Function Documentation

**7.12.3.1 virtual void gldb::DBConnlmp::query ( std::string** *sql\_query* ) [pure virtual]

Runs an SQL query.

#### **Parameters**

sql_query	The query.

Implemented in gldb::DBConnMySQL.

7.12.3.2 virtual Table gldb::DBConnlmp::select ( std::string query ) [pure virtual]

Runs an SQL SELECT query.

#### **Parameters**

query	The query.

#### Returns

A Table object containing the results.

Implemented in gldb::DBConnMySQL, and gldb::DBConnDummy.

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

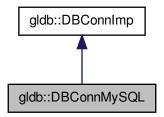
• lib/database/dbconnimp.h

# 7.13 gldb::DBConnMySQL Class Reference

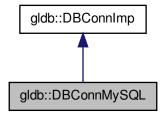
MySQL database implementation class.

#include <dbconn\_mysql\_imp.h>

Inheritance diagram for gldb::DBConnMySQL:



Collaboration diagram for gldb::DBConnMySQL:



#### **Public Member Functions**

• DBConnMySQL (const std::string database, const std::string hostname, const std::string username, const std::string password)

Constructor.

- DBConnMySQL (const DBConnMySQL &)
- virtual ~DBConnMySQL ()
- DBConnMySQL & operator= (const DBConnMySQL &)
- virtual void query (std::string sql\_query)

Runs an SQL query.

· virtual Table select (std::string query)

Runs an SQL SELECT query.

#### **Private Attributes**

• MYSQL \* m conn

### 7.13.1 Detailed Description

MySQL database implementation class.

#### 7.13.2 Constructor & Destructor Documentation

7.13.2.1 DBConnMySQL::DBConnMySQL ( const std::string *database*, const std::string *hostname*, const std::string *username*, const std::string *password* )

Constructor.

#### **Parameters**

database	The name of the MySQL database.
hostname	The hostname of the server.
username	The username to log into the database.
password	The password to log into the database.

#### **Exceptions**

DBConnCouldNotConnect | If could not connect to database.

7.13.2.2 gldb::DBConnMySQL::DBConnMySQL ( const DBConnMySQL & )

Deleted copy constructor

7.13.2.3 DBConnMySQL::~DBConnMySQL() [virtual]

Destructor

#### 7.13.3 Member Function Documentation

7.13.3.1 DBConnMySQL& gldb::DBConnMySQL::operator= ( const DBConnMySQL & )

Deleted assignment operator

7.13.3.2 void DBConnMySQL::query ( std::string sql\_query ) [virtual]

Runs an SQL query.

#### **Parameters**

```
sql_query The query.
```

#### Exceptions

```
DBConnCouldNotQuery If could not successfully execute query.
```

Implements gldb::DBConnImp.

7.13.3.3 Table DBConnMySQL::select ( std::string query ) [virtual]

Runs an SQL SELECT query.

#### **Parameters**

```
query The query.
```

#### Returns

A Table object containing the results.

### Exceptions

```
DBConnCouldNotQuery If could not successfully execute query.
```

Implements gldb::DBConnImp.

### 7.13.4 Member Data Documentation

```
7.13.4.1 MYSQL* gldb::DBConnMySQL::m_conn [private]
```

The initialized MySQL handle.

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

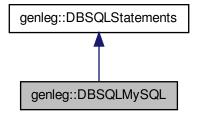
- lib/database\_imp/mysql/dbconn\_mysql\_imp.h
- lib/database\_imp/mysql/dbconn\_mysql\_imp.cpp

### 7.14 genleg::DBSQLMySQL Class Reference

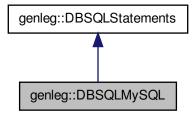
MySQL SQL statements class.

```
#include <dbsql_mysql.h>
```

Inheritance diagram for genleg::DBSQLMySQL:



Collaboration diagram for genleg::DBSQLMySQL:



### **Additional Inherited Members**

### 7.14.1 Detailed Description

MySQL SQL statements class.

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

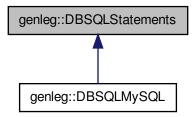
• lib/dbsql/dbsql\_mysql.h

# 7.15 genleg::DBSQLStatements Class Reference

SQL statements class.

#include <dbsqlstatements.h>

Inheritance diagram for genleg::DBSQLStatements:



#### **Public Member Functions**

- DBSQLStatements ()
- virtual ~DBSQLStatements ()
- virtual std::string create\_table (const std::string table\_name) const Returns a SQL statement for creating a table.
- virtual std::string drop\_table (const std::string table\_name) const Returns a SQL statement for dropping a table.
- virtual std::string create\_view (const std::string view\_name) const Returns a SQL statement for creating a view.
- virtual std::string drop\_view (const std::string view\_name) const Returns a SQL statement for dropping a view.

### 7.15.1 Detailed Description

SQL statements class.

### 7.15.2 Constructor & Destructor Documentation

7.15.2.1 DBSQLStatements::DBSQLStatements ( )

Constructor

**7.15.2.2 DBSQLStatements::**~DBSQLStatements() [virtual]

Destructor

### 7.15.3 Member Function Documentation

7.15.3.1 std::string DBSQLStatements::create\_table ( const std::string table\_name ) const [virtual]

Returns a SQL statement for creating a table.

**Parameters** 

table\_name The table to create.

#### Returns

The SQL statement to create the table.

7.15.3.2 std::string DBSQLStatements::create\_view ( const std::string view\_name ) const [virtual]

Returns a SQL statement for creating a view.

#### **Parameters**

view nan	ne The view to create.	

#### **Returns**

The SQL statement to create the view.

7.15.3.3 std::string DBSQLStatements::drop\_table ( const std::string table\_name ) const [virtual]

Returns a SQL statement for dropping a table.

#### **Parameters**

table_name	The table to drop.
------------	--------------------

#### **Returns**

The SQL statement to drop the table.

7.15.3.4 std::string DBSQLStatements::drop\_view ( const std::string view\_name ) const [virtual]

Returns a SQL statement for dropping a view.

#### **Parameters**

view_name	The view to drop.	

#### Returns

The SQL statement to drop the view.

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

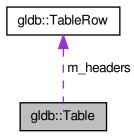
- lib/dbsql/dbsqlstatements.h
- lib/dbsql/dbsqlstatements.cpp

## 7.16 gldb::Table Class Reference

#### Database table class.

#include <table.h>

Collaboration diagram for gldb::Table:



#### **Public Member Functions**

• Table (const TableRow &headers)

Constructor.

- ∼Table ()
- size\_t num\_fields () const

Returns the number of fields in each row.

• size t num records () const

Returns the number of record in the table.

void set\_quoted (std::vector< bool > &vec)

Sets the quote flags for the records.

• const TableRow & get\_headers () const

Returns the field names.

const TableRow & operator[] (const size\_t idx) const

Overloaded index operator.

void append\_record (const TableRow &new\_record)

Appends a record to the table.

std::string insert\_query (const std::string table\_name, const size\_t idx)

Creates an SQL INSERT query from a table record.

#### **Static Public Member Functions**

static Table create\_from\_file (const std::string filename, const char delim)
 Creates a table from an input file.

#### **Private Attributes**

- TableRow m\_headers
- $std::vector < TableRow > m\_records$
- std::vector< bool > m\_quoted

### 7.16.1 Detailed Description

Database table class.

### 7.16.2 Constructor & Destructor Documentation

7.16.2.1 Table::Table ( const TableRow & headers ) [explicit]

Constructor.

#### **Parameters**

headers Table row containing field names.

7.16.2.2 Table::∼Table ( )

Destructor

#### 7.16.3 Member Function Documentation

7.16.3.1 void Table::append\_record ( const TableRow & new\_record )

Appends a record to the table.

#### **Parameters**

new_record	The record to append.
------------	-----------------------

7.16.3.2 Table Table::create\_from\_file ( const std::string filename, const char delim ) [static]

Creates a table from an input file.

#### **Parameters**

filename	The name of the input file.
delim	The delimiting character.

### Returns

The table.

#### **Exceptions**

TableBadInputFile	on badly formed input file.
TableCouldNotOpenInput-	on bad filename.
File	

7.16.3.3 const TableRow & Table::get\_headers ( ) const

Returns the field names.

Returns

The field names.

7.16.3.4 std::string Table::insert\_query ( const std::string table\_name, const size\_t idx )

Creates an SQL INSERT query from a table record.

#### **Parameters**

table_name	The name of the table into which to INSERT.
idx	The index of the record.

#### **Returns**

A string containing the query.

7.16.3.5 size\_t Table::num\_fields ( ) const

Returns the number of fields in each row.

#### Returns

The number of fields in each row.

7.16.3.6 size\_t Table::num\_records ( ) const

Returns the number of record in the table.

#### Returns

The number of records in the table.

7.16.3.7 const TableRow & Table::operator[] ( const size\_t idx ) const

Overloaded index operator.

#### **Parameters**

idx	The zero-based index of the record.

#### Returns

The selected record.

7.16.3.8 void Table::set\_quoted ( std::vector < bool > & vec )

Sets the quote flags for the records.

### **Parameters**

vec	A vector of bools. The size must match the size of the records.

### 7.16.4 Member Data Documentation

**7.16.4.1 TableRow gldb::Table::m\_headers** [private]

The names of the fields

**7.16.4.2** std::vector<bool> gldb::Table::m\_quoted [private]

A vector to show if fields should be quoted for INSERT

**7.16.4.3** std::vector<TableRow> gldb::Table::m\_records [private]

A vector of the records

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

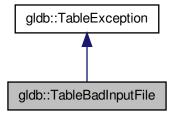
- lib/database/table.h
- lib/database/table.cpp

## 7.17 gldb::TableBadInputFile Class Reference

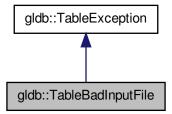
Could not connect to database exception class.

#include <table.h>

Inheritance diagram for gldb::TableBadInputFile:



Collaboration diagram for gldb::TableBadInputFile:



### 7.17.1 Detailed Description

Could not connect to database exception class.

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

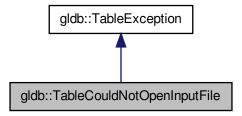
• lib/database/table.h

### 7.18 gldb::TableCouldNotOpenInputFile Class Reference

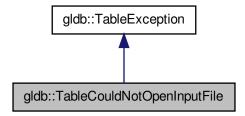
Could not connect to database exception class.

#include <table.h>

Inheritance diagram for gldb::TableCouldNotOpenInputFile:



Collaboration diagram for gldb::TableCouldNotOpenInputFile:



### 7.18.1 Detailed Description

Could not connect to database exception class.

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

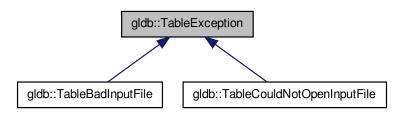
· lib/database/table.h

# 7.19 gldb::TableException Class Reference

Base database connection exception class.

#include <table.h>

Inheritance diagram for gldb::TableException:



### 7.19.1 Detailed Description

Base database connection exception class.

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

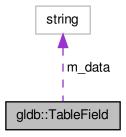
· lib/database/table.h

# 7.20 gldb::TableField Class Reference

Database table field class.

#include <tablefield.h>

 $Collaboration\ diagram\ for\ gldb:: Table Field:$ 



### **Public Member Functions**

• TableField (const char \*data)

Constructor accepting const char \* data.

TableField (const std::string &data)

Constructor accepting std:string data.

- ∼TableField ()
- size\_t length () const

Returns the length of the field.

• operator std::string () const

Overridden conversion operator.

TableField & operator= (const char \*data)

Overridden assignment operator for const char \*.

TableField & operator= (const std::string &data)

Overridden assignment operator for std::string.

char & operator[] (const size\_t idx)

Overridden index operator.

const char & operator[] (const size\_t idx) const

Overridden index operator.

TableField & operator+= (const char &c)

Overridden compound assignment operator.

TableField & operator+= (const std::string &data)

Overridden compound assignment operator.

#### **Private Attributes**

• std::string m\_data

### **Friends**

std::ostream & operator<< (std::ostream &out, const TableField &field)</li>
 Overridden << operator for printing a field.</li>

#### 7.20.1 Detailed Description

Database table field class.

#### 7.20.2 Constructor & Destructor Documentation

```
7.20.2.1 TableField::TableField ( const char * data ) [explicit]
```

Constructor accepting const char \* data.

#### **Parameters**

data The initial contents of the field.

#### 7.20.2.2 TableField::TableField ( const std::string & data ) [explicit]

Constructor accepting std:string data.

#### **Parameters**

data The initial contents of the field.

7.20.2.3 TableField::~TableField()

Destructor

7.20.3 Member Function Documentation

7.20.3.1 size\_t TableField::length ( ) const

Returns the length of the field.

Returns

The length of the field.

7.20.3.2 TableField::operator std::string ( ) const

Overridden conversion operator.

Returns the field contents as a string.

7.20.3.3 TableField & TableField::operator+= ( const char & c )

Overridden compound assignment operator.

#### **Parameters**

С	The character to append to the field.

#### Returns

A reference to the same field.

7.20.3.4 TableField & TableField::operator+= ( const std::string & data )

Overridden compound assignment operator.

#### **Parameters**

data	The string to append to the field.

#### Returns

A reference to the same field.

7.20.3.5 TableField & TableField::operator= ( const char \* data )

Overridden assignment operator for const char \*.

#### **Parameters**

data	The new contents of the field.

#### Returns

A reference to the same field.

7.20.3.6 TableField & TableField::operator= ( const std::string & data )

Overridden assignment operator for std::string.

#### **Parameters**

data	The new contents of the field.

#### **Returns**

A reference to the same field.

7.20.3.7 char & TableField::operator[] ( const size\_t idx )

Overridden index operator.

#### **Parameters**

idx	The desired index.
-----	--------------------

#### **Returns**

A reference to the character at the specified index.

7.20.3.8 const char & TableField::operator[] ( const size\_t idx ) const

Overridden index operator.

### **Parameters**

idx	The desired index.
-----	--------------------

#### Returns

A const reference to the character at the specified index.

### 7.20.4 Friends And Related Function Documentation

7.20.4.1 std::ostream& operator<<( std::ostream & out, const TableField & field ) [friend]

Overridden << operator for printing a field.

#### **Parameters**

out	The ostream to which to print.
field	A reference to the field.

#### Returns

A reference to out.

#### 7.20.5 Member Data Documentation

```
7.20.5.1 std::string gldb::TableField::m_data [private]
```

The field contents

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

- · lib/database/tablefield.h
- · lib/database/tablefield.cpp

### 7.21 gldb::TableRow Class Reference

Database table row class.

```
#include <tablerow.h>
```

#### **Public Member Functions**

- TableRow ()
- TableRow (const size\_t size)

Constructor with initial number of fields.

TableRow (std::vector< std::string > &vec)

Constructor with string vector.

- ∼TableRow ()
- size\_t size () const

Returns the number of fields.

TableField & operator[] (const size\_t idx)

Overridden index operator.

• const TableField & operator[] (const size t idx) const

Overridden index operator.

void append\_field (const char \*new\_field)

Appends a field to the row.

void append\_field (const std::string &new\_field)

Appends a field to the row.

void append\_field (const TableField &new\_field)

Appends a field to the row.

· void print (std::ostream &stream) const

Prints a row.

std::string record\_string (const std::vector< bool > &quoted)

Creates a comma separated string of fields.

• std::string record\_string ()

Creates an unquoted comma separated string of fields.

### **Private Attributes**

std::vector< TableField > m\_fields

### 7.21.1 Detailed Description

Database table row class.

#### 7.21.2 Constructor & Destructor Documentation

7.21.2.1 TableRow::TableRow ( )

Default constructor

**7.21.2.2** TableRow::TableRow ( const size\_t size ) [explicit]

Constructor with initial number of fields.

#### **Parameters**

size The initial number of fields.

7.21.2.3 TableRow::TableRow ( std::vector < std::string > & vec ) [explicit]

Constructor with string vector.

#### **Parameters**

vec The vector.

7.21.2.4 TableRow::~TableRow()

Destructor

#### 7.21.3 Member Function Documentation

7.21.3.1 void TableRow::append\_field ( const char \* new\_field )

Appends a field to the row.

### **Parameters**

new field The contents of the new field.

7.21.3.2 void TableRow::append\_field ( const std::string & new\_field )

Appends a field to the row.

#### **Parameters**

new field The contents of the new field.

7.21.3.3 void TableRow::append\_field ( const TableField & new\_field )

Appends a field to the row.

#### **Parameters**

new\_field | A field from which to copy.

7.21.3.4 TableField & TableRow::operator[] ( const size\_t idx )

Overridden index operator.

#### **Parameters**

idx T	The zero-based index of the field.	

#### Returns

A reference to the field at the specified index.

7.21.3.5 const TableField & TableRow::operator[] ( const size\_t idx ) const

Overridden index operator.

#### **Parameters**

idx	The zero-based index of the field.
-----	------------------------------------

#### Returns

A const reference to the field at the specified index.

7.21.3.6 void TableRow::print ( std::ostream & stream ) const

Prints a row.

#### **Parameters**

stream	
--------	--

7.21.3.7 std::string TableRow::record\_string ( const std::vector< bool > & quoted )

Creates a comma separated string of fields.

#### **Parameters**

quoted	A vector of bool, for each field true means that field will be enclosed in single quotes in the
	comma separated string, false means it will not be.

#### Returns

The comma separated string.

7.21.3.8 std::string TableRow::record\_string ( )

Creates an unquoted comma separated string of fields.

#### Returns

The unquoted comma separated string.

7.21.3.9 size\_t TableRow::size ( ) const

Returns the number of fields.

#### Returns

The number of fields.

### 7.21.4 Member Data Documentation

**7.21.4.1** std::vector<TableField> gldb::TableRow::m\_fields [private]

### A vector of fields

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

- lib/database/tablerow.h
- lib/database/tablerow.cpp

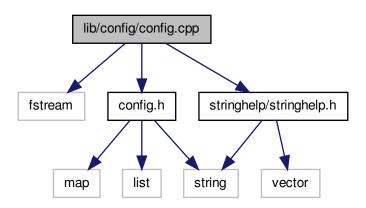
# **Chapter 8**

# **File Documentation**

# 8.1 lib/config/config.cpp File Reference

Implementation of program configurations class.

```
#include <fstream>
#include "config.h"
#include "stringhelp/stringhelp.h"
Include dependency graph for config.cpp:
```



### 8.1.1 Detailed Description

Implementation of program configurations class.

**Author** 

Paul Griffiths

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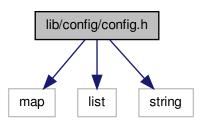
58 File Documentation

# 8.2 lib/config/config.h File Reference

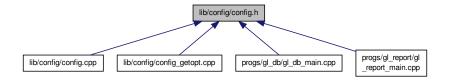
Interface to program configurations class.

```
#include <map>
#include <list>
#include <string>
```

Include dependency graph for config.h:



This graph shows which files directly or indirectly include this file:



#### **Classes**

• class genleg::ConfigException

Configuration module exception base class.

• class genleg::ConfigOptionNotSet

Exception class for option not set.

• class genleg::ConfigBadOption

Exception class for bad provided option.

• class genleg::ConfigCouldNotOpenFile

Exception class for when conf file cannot be opened.

· class genleg::ConfigBadConfigFile

Exception class for badly formed configuration file.

· class genleg::Config

Configuration options class.

### **Enumerations**

• enum genleg::Argument

Enumeration class for option argument specifications.

### 8.2.1 Detailed Description

Interface to program configurations class.

Author

Paul Griffiths

### Copyright

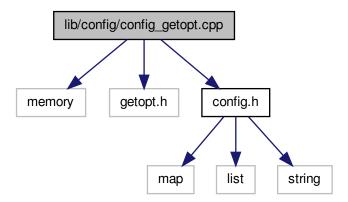
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# 8.3 lib/config/config\_getopt.cpp File Reference

Implementation of command line functionality.

```
#include <memory>
#include <getopt.h>
#include "config.h"
```

Include dependency graph for config\_getopt.cpp:



#### **Macros**

• #define \_XOPEN\_SOURCE 600

#### 8.3.1 Detailed Description

Implementation of command line functionality. Included in separate file to isolate usage of non-standard getopt library.

Author

Paul Griffiths

60 File Documentation

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### 8.3.2 Macro Definition Documentation

#### 8.3.2.1 #define \_XOPEN\_SOURCE 600

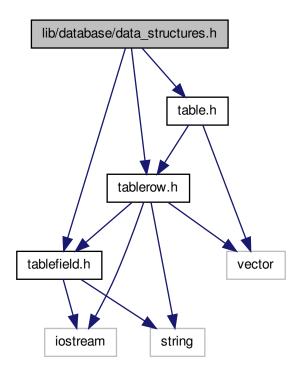
UNIX feature test macro for getopt library

### 8.4 lib/database/data\_structures.h File Reference

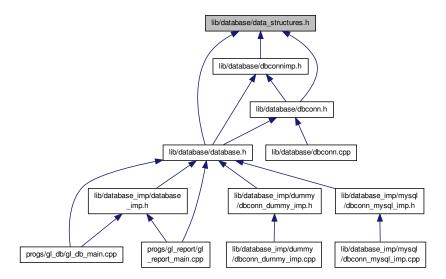
Main interface to database data structures.

```
#include "tablefield.h"
#include "tablerow.h"
#include "table.h"
```

Include dependency graph for data\_structures.h:



This graph shows which files directly or indirectly include this file:



#### 8.4.1 Detailed Description

Main interface to database data structures.

**Author** 

Paul Griffiths

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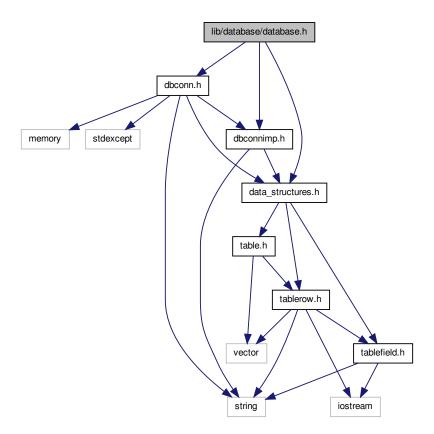
### 8.5 lib/database/database.h File Reference

User interface to database functionality.

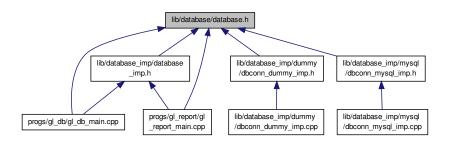
```
#include "data_structures.h"
#include "dbconnimp.h"
#include "dbconn.h"
```

62 File Documentation

Include dependency graph for database.h:



This graph shows which files directly or indirectly include this file:



### 8.5.1 Detailed Description

User interface to database functionality.

Author

Paul Griffiths

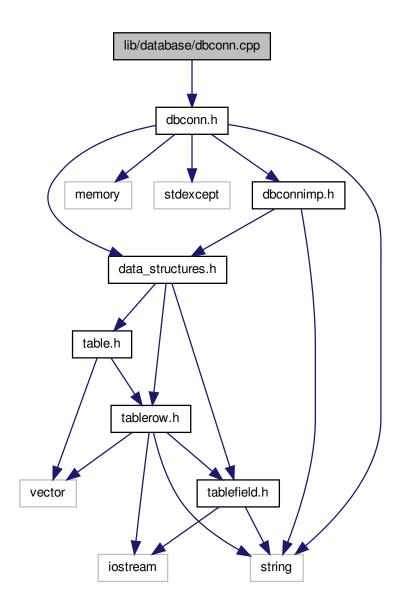
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# 8.6 lib/database/dbconn.cpp File Reference

Implementation of database connection class.

#include "dbconn.h"
Include dependency graph for dbconn.cpp:



## 8.6.1 Detailed Description

Implementation of database connection class.

**Author** 

Paul Griffiths

## Copyright

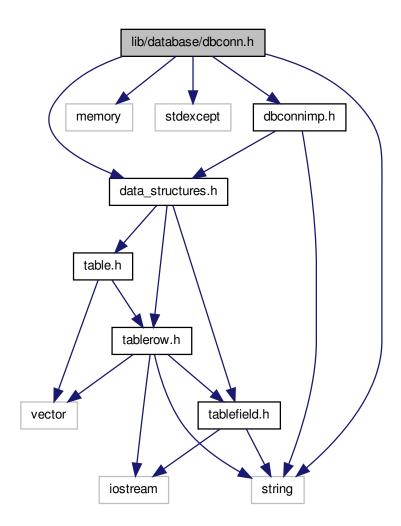
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## 8.7 lib/database/dbconn.h File Reference

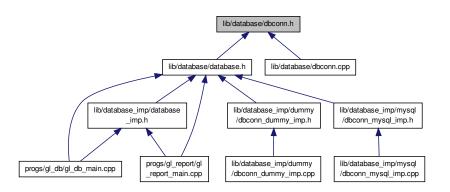
Interface to database connection base class.

```
#include <string>
#include <memory>
#include <stdexcept>
#include "data_structures.h"
#include "dbconnimp.h"
```

Include dependency graph for dbconn.h:



This graph shows which files directly or indirectly include this file:



#### Classes

• class gldb::DBConnException

Base database connection exception class.

· class gldb::DBConnCouldNotConnect

Could not connect to database exception class.

class gldb::DBConnCouldNotQuery

Could not execute database query exception class.

• class gldb::DBConn

Database connection class.

## 8.7.1 Detailed Description

Interface to database connection base class.

**Author** 

Paul Griffiths

#### Copyright

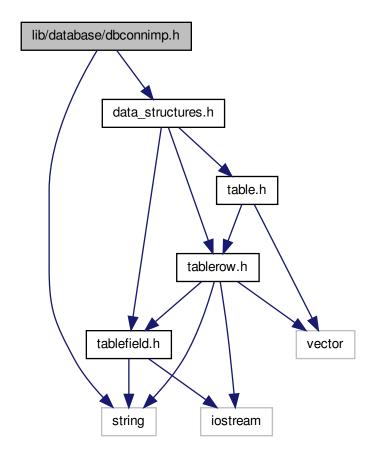
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# 8.8 lib/database/dbconnimp.h File Reference

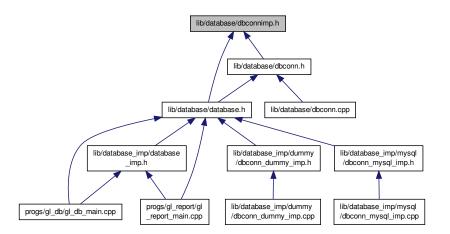
Interface to abstract database implementation base class.

```
#include <string>
#include "data_structures.h"
```

Include dependency graph for dbconnimp.h:



This graph shows which files directly or indirectly include this file:



#### Classes

· class gldb::DBConnImp

Abstract database implementation base class.

#### 8.8.1 Detailed Description

Interface to abstract database implementation base class.

**Author** 

Paul Griffiths

#### Copyright

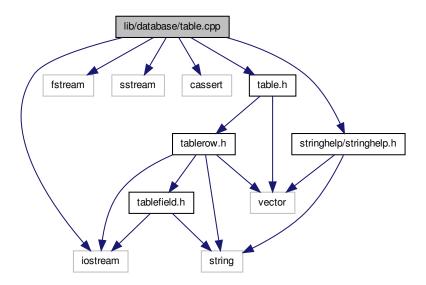
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## 8.9 lib/database/table.cpp File Reference

Implementation of database table data structure.

```
#include <iostream>
#include <fstream>
#include <sstream>
#include <cassert>
#include "table.h"
#include "stringhelp/stringhelp.h"
```

Include dependency graph for table.cpp:



#### 8.9.1 Detailed Description

Implementation of database table data structure.

Author

Paul Griffiths

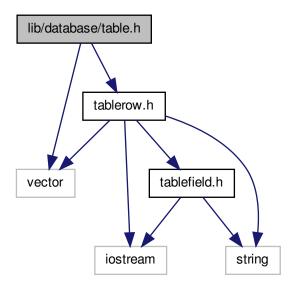
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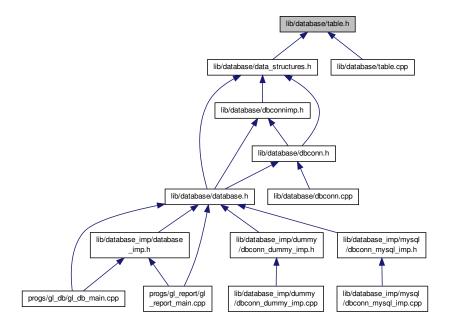
## 8.10 lib/database/table.h File Reference

Interface to database table data structure.

#include <vector>
#include "tablerow.h"
Include dependency graph for table.h:



This graph shows which files directly or indirectly include this file:



#### Classes

· class gldb::TableException

Base database connection exception class.

· class gldb::TableBadInputFile

Could not connect to database exception class.

• class gldb::TableCouldNotOpenInputFile

Could not connect to database exception class.

class gldb::Table

Database table class.

## 8.10.1 Detailed Description

Interface to database table data structure.

Author

Paul Griffiths

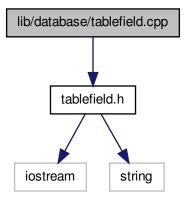
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# 8.11 lib/database/tablefield.cpp File Reference

Implementation of database table field class.

#include "tablefield.h"
Include dependency graph for tablefield.cpp:



#### 8.11.1 Detailed Description

Implementation of database table field class.

Author

Paul Griffiths

## Copyright

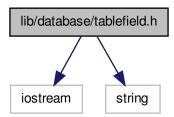
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## 8.12 lib/database/tablefield.h File Reference

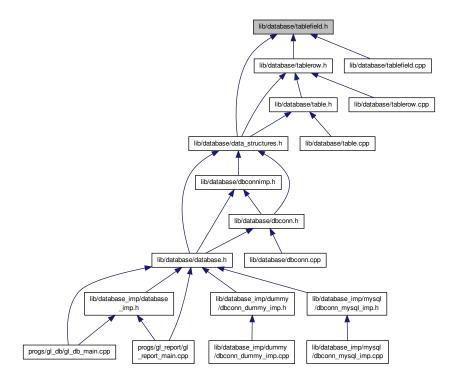
Interface to database table field class.

```
#include <iostream>
#include <string>
```

Include dependency graph for tablefield.h:



This graph shows which files directly or indirectly include this file:



#### Classes

• class gldb::TableField

Database table field class.

#### **Functions**

• std::ostream & gldb::operator<< (std::ostream &out, const TableField &field)

Overridden << operator for printing a field.

#### 8.12.1 Detailed Description

Interface to database table field class.

**Author** 

Paul Griffiths

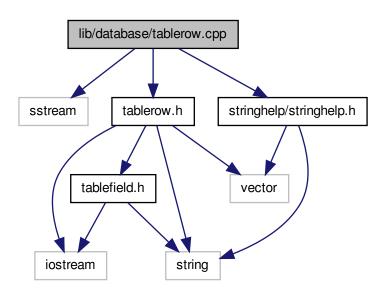
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# 8.13 lib/database/tablerow.cpp File Reference

Implementation of database table row data structure.

```
#include <sstream>
#include "tablerow.h"
#include "stringhelp/stringhelp.h"
Include dependency graph for tablerow.cpp:
```



#### 8.13.1 Detailed Description

Implementation of database table row data structure.

Author

Paul Griffiths

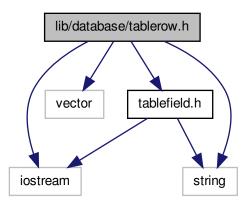
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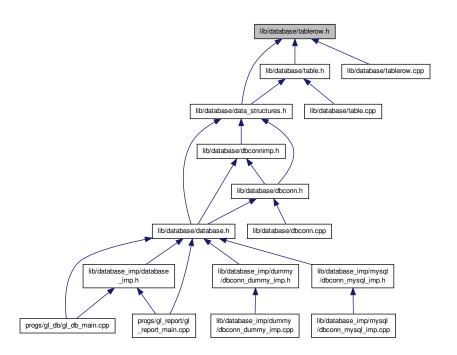
#### 8.14 lib/database/tablerow.h File Reference

Interface to database table row data structure.

```
#include <iostream>
#include <vector>
#include <string>
#include "tablefield.h"
Include dependency graph for tablerow.h:
```



This graph shows which files directly or indirectly include this file:



Classes

class gldb::TableRow

Database table row class.

## 8.14.1 Detailed Description

Interface to database table row data structure.

**Author** 

Paul Griffiths

## Copyright

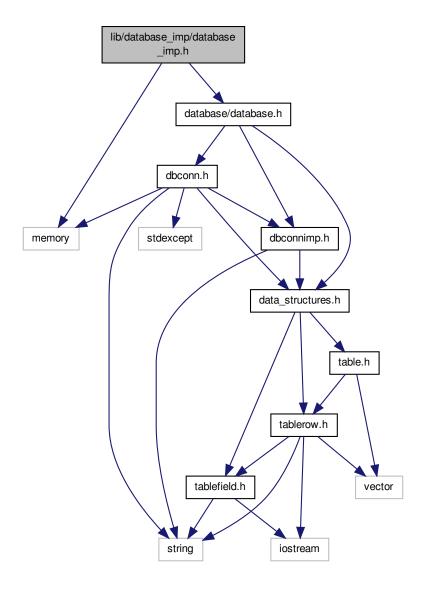
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# 8.15 lib/database\_imp/database\_imp.h File Reference

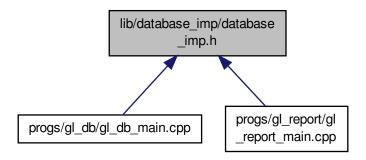
Interface to database implementation factory function.

```
#include <memory>
#include "database/database.h"
```

Include dependency graph for database\_imp.h:



This graph shows which files directly or indirectly include this file:



#### **Functions**

• DBConnImp \* gldb::get\_connection (const std::string database, const std::string hostname, const std::string username, const std::string password)

Creates and returns a pointer to a database implementation.

• std::string gldb::get\_database\_type ()

Returns the name of the compiled-in database type.

#### 8.15.1 Detailed Description

Interface to database implementation factory function.

Author

Paul Griffiths

#### Copyright

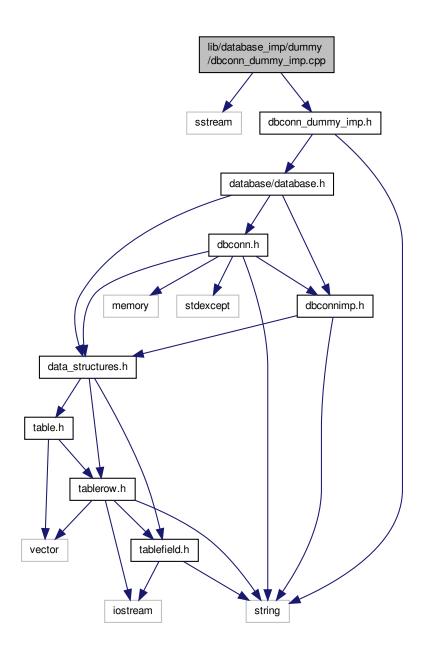
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## 8.16 lib/database\_imp/dummy/dbconn\_dummy\_imp.cpp File Reference

Implementation of Dummy database connection implementation class.

```
#include <sstream>
#include "dbconn_dummy_imp.h"
```

Include dependency graph for dbconn\_dummy\_imp.cpp:



## 8.16.1 Detailed Description

Implementation of Dummy database connection implementation class.

**Author** 

Paul Griffiths

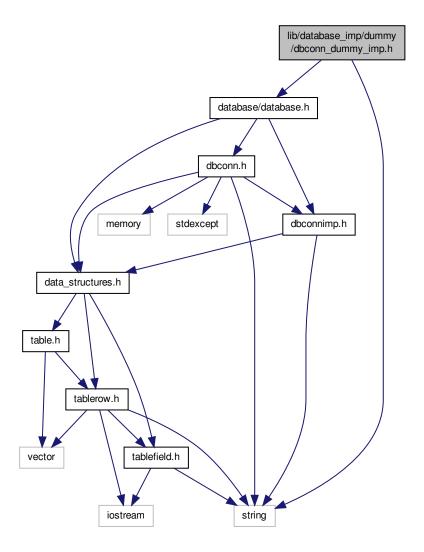
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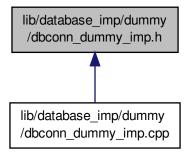
# 8.17 lib/database\_imp/dummy/dbconn\_dummy\_imp.h File Reference

Interface to dummy database connection implementation class.

#include <string>
#include "database/database.h"
Include dependency graph for dbconn\_dummy\_imp.h:



This graph shows which files directly or indirectly include this file:



#### **Classes**

• class gldb::DBConnDummy

Dummy database implementation class.

## 8.17.1 Detailed Description

Interface to dummy database connection implementation class.

**Author** 

Paul Griffiths

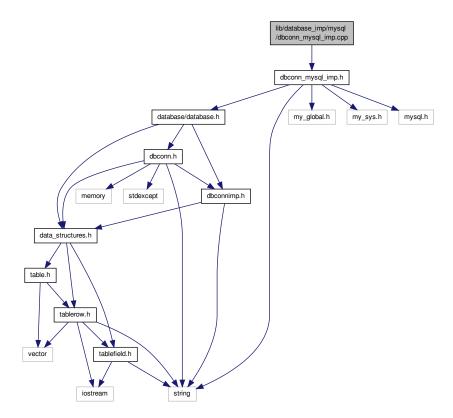
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## 8.18 lib/database\_imp/mysql/dbconn\_mysql\_imp.cpp File Reference

Implementation of MySQL database connection implementation class.

#include "dbconn\_mysql\_imp.h"
Include dependency graph for dbconn\_mysql\_imp.cpp:



#### 8.18.1 Detailed Description

Implementation of MySQL database connection implementation class.

Author

Paul Griffiths

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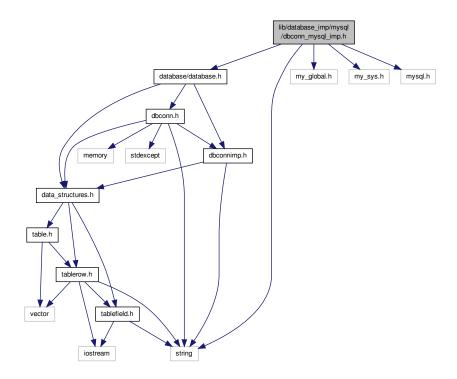
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# 8.19 lib/database\_imp/mysql/dbconn\_mysql\_imp.h File Reference

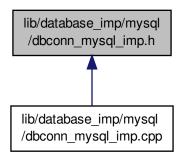
Interface to MySQL database connection implementation class.

```
#include <string>
#include "database/database.h"
#include <my_global.h>
#include <my_sys.h>
#include <mysql.h>
```

Include dependency graph for dbconn\_mysql\_imp.h:



This graph shows which files directly or indirectly include this file:



#### **Classes**

• class gldb::DBConnMySQL

MySQL database implementation class.

#### 8.19.1 Detailed Description

Interface to MySQL database connection implementation class.

Author

Paul Griffiths

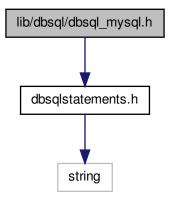
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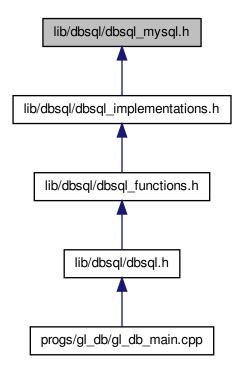
# 8.20 lib/dbsql/dbsql\_mysql.h File Reference

Interface to MySQL SQL statement class.

#include "dbsqlstatements.h"
Include dependency graph for dbsql\_mysql.h:



This graph shows which files directly or indirectly include this file:



#### **Classes**

class genleg::DBSQLMySQL

MySQL SQL statements class.

## 8.20.1 Detailed Description

Interface to MySQL SQL statement class. Interface to MySQL SQL statement class

Author

Paul Griffiths

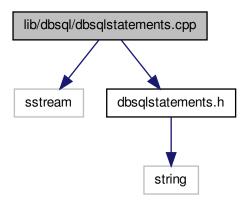
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# 8.21 lib/dbsql/dbsqlstatements.cpp File Reference

Implementation of SQL statement class.

```
#include <sstream>
#include "dbsqlstatements.h"
Include dependency graph for dbsqlstatements.cpp:
```



#### 8.21.1 Detailed Description

Implementation of SQL statement class. Implementation of SQL statement class

#### Author

Paul Griffiths

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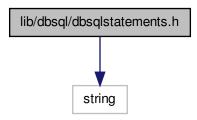
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# 8.22 lib/dbsql/dbsqlstatements.h File Reference

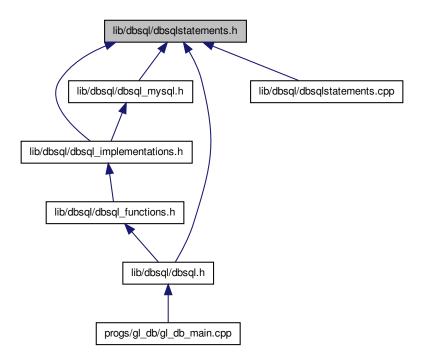
Interface to SQL statement class.

#include <string>

Include dependency graph for dbsqlstatements.h:



This graph shows which files directly or indirectly include this file:



#### **Classes**

class genleg::DBSQLStatements
 SQL statements class.

## 8.22.1 Detailed Description

Interface to SQL statement class.

Author

Paul Griffiths

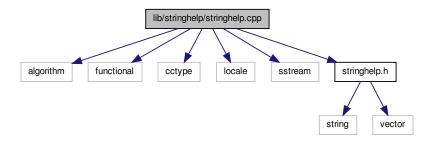
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## 8.23 lib/stringhelp/stringhelp.cpp File Reference

Implementation of string helper functions.

```
#include <algorithm>
#include <functional>
#include <cctype>
#include <locale>
#include <sstream>
#include "stringhelp.h"
Include dependency graph for stringhelp.cpp:
```



#### 8.23.1 Detailed Description

Implementation of string helper functions.

**Author** 

Paul Griffiths

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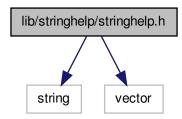
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# 8.24 lib/stringhelp/stringhelp.h File Reference

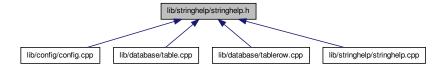
Interface to string helper functions.

```
#include <string>
#include <vector>
```

Include dependency graph for stringhelp.h:



This graph shows which files directly or indirectly include this file:



#### **Functions**

std::string & pgstring::trim\_front (std::string &s)

Trims leading whitespace from a string.

• std::string & pgstring::trim\_back (std::string &s)

Trims trailing whitespace from a string.

• std::string & pgstring::trim (std::string &s)

Trims leading and trailing whitespace from a string.

• std::vector< std::string > pgstring::split (const std::string &s, const char delim)

Splits a delimited string into tokens.

std::vector< std::string > & pgstring::split (std::vector< std::string > &vec, const std::string &s, const char delim)

Splits a delimited string into tokens.

• bool **pgstring::next\_content\_line** (std::istream &ifs, std::string &s)

Gets the next content line from a stream.

• std::vector< std::string > & pgstring::content\_lines (std::vector< std::string > &vec, std::istream &ifs)

Populates a vector of content lines from a stream.

std::vector< std::vector</li>

< std::string > > & pgstring::split\_lines (std::vector< std::vector< std::string >> &vec, std::istream &ifs, const char delim)

Populates a vector of vectors of fields from a stream.

• std::string & **pgstring::join** (std::vector< std::string > &vec, std::string &s, const char delim)

Joins a vector of strings into a delimited line.

#### 8.24.1 Detailed Description

Interface to string helper functions.

**Author** 

Paul Griffiths

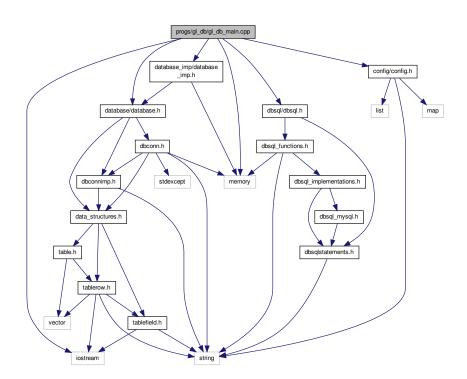
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# 8.25 progs/gl\_db/gl\_db\_main.cpp File Reference

Main functionality for gl\_db program.

```
#include <iostream>
#include <memory>
#include "database/database.h"
#include "database_imp/database_imp.h"
#include "dbsql/dbsql.h"
#include "config/config.h"
Include dependency graph for gl db main.cpp:
```



## **Functions**

- static void set\_configuration (Config &config, int argc, char \*argv[])
   Sets program configuration options.
- static void print\_usage\_message ()

Prints a program usage message.

static void print\_version\_message ()

Prints a program version message.

• static void print\_help\_message ()

Prints a program help message.

static std::string login (void)

Gets a password from the terminal.

• int main (int argc, char \*argv[])

Main function.

#### **Variables**

• static const char \* progname = "gl\_db"

Static variable for program name.

## 8.25.1 Detailed Description

Main functionality for gl\_db program.

**Author** 

Paul Griffiths

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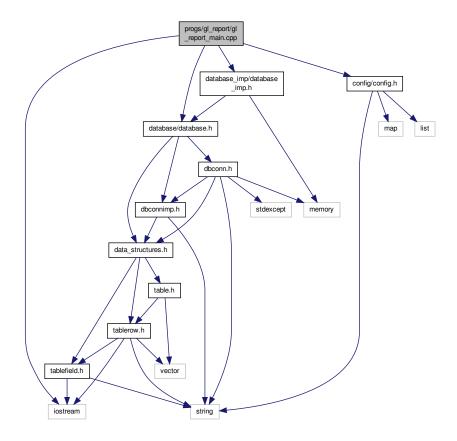
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## 8.26 progs/gl\_report/gl\_report\_main.cpp File Reference

Main functionality for gl\_report program.

```
#include <iostream>
#include "database/database.h"
#include "database_imp/database_imp.h"
#include "config/config.h"
```

Include dependency graph for gl\_report\_main.cpp:



#### **Functions**

- static void set\_configuration (genleg::Config &config, int argc, char \*argv[])
- static void print\_usage\_message ()

Prints a program usage message.

Sets program configuration options.

- static void print\_version\_message ()
  - Prints a program version message.
- static void print\_help\_message ()

Prints a program help message.

- static std::string login (void)
  - Gets a password from the terminal.
- int main (int argc, char \*argv[])

Main function.

## **Variables**

static const char \* progname = "gl\_report"
 Static variable for program name.

## 8.26.1 Detailed Description

Main functionality for gl\_report program.

Author

Paul Griffiths

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