

general_ledger

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Chapter 1

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.

Chapter 2

Class Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

genleg::Config	9
genleg::ConfigBadConfigFile	11
genleg::ConfigBadOption	11
genleg::ConfigCouldNotOpenFile	11
genleg::ConfigOptionNotSet	12
gldb::DBConn	12
gldb::DBConnCouldNotConnect	12
gldb::DBConnCouldNotQuery	12
gldb::DBConnImp	13
gldb::DBConnMySQL	13
gldb::Table	14
gldb::TableField	15
gldb::TableRow	15

Chapter 3

Class Index

3.1 Class List

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

genleg::Config	9
genleg::ConfigBadConfigFile	11
genleg::ConfigBadOption	11
genleg::ConfigCouldNotOpenFile	11
genleg::ConfigOptionNotSet	12
gldb::DBConn	12
gldb::DBConnCouldNotConnect	12
gldb::DBConnCouldNotQuery	12
gldb::DBConnImp	13
gldb::DBConnMySQL	13
gldb::Table	14
gldb::TableField	15
gldb::TableRow	15

Chapter 4

File Index

4.1 File List

Here is a list of all documented files with brief descriptions:

lib/config/ config.cpp	
Implementation of program configurations class	17
lib/config/ config.h	
Interface to program configurations class	18
lib/config/ config_getopt.cpp	
Implementation of command line functionality	19
lib/database/ data_structures.h	
Main interface to database data structures	20
lib/database/ database.h	
User interface to database functionality	21
lib/database/ dbconn.cpp	
Implementation of database connection abstract base class	23
lib/database/ dbconn.h	
Interface to database connection abstract base class	25
lib/database/ dbconnimp.h	
Interface to abstract database implementation base class	26
lib/database/ table.cpp	
Implementation of table data structure	28
lib/database/ table.h	
Interface to table data structure	29
lib/database/ tablefield.cpp	
Implementation of table field class	31
lib/database/ tablefield.h	
Interface to table field class	32
lib/database/ tablerow.cpp	
Implementation of table row data structure	33
lib/database/ tablerow.h	
Interface to table row data structure	34
lib/database_imp/ database_imp.h	??
lib/database_imp/mysql/ dbconn_mysql_imp.cpp	
Implementation of MySQL database connection implementation class	35
lib/database_imp/mysql/ dbconn_mysql_imp.h	
Interface to MySQL database connection implementation class	36
lib/stringhelp/ stringhelp.cpp	
Implementation of string helper functions	38
lib/stringhelp/ stringhelp.h	
Interface to string helper functions	38

Chapter 5

Class Documentation

5.1 genleg::Config Class Reference

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

Public Member Functions

- [Config](#) ()
Constructor for [Config](#) class.
- [~Config](#) ()
Destructor for [Config](#) class.
- 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 if an option is set.
- const std::string & [operator\[\]](#) (const std::string &option) const
[operator\[\]](#) overload.

5.1.1 Detailed Description

Configuration options class

5.1.2 Constructor & Destructor Documentation

5.1.2.1 Config::Config ()

Constructor for [Config](#) class.

Constructor

5.1.2.2 Config::~~Config ()

Destructor for [Config](#) class.

Destructor

5.1.3 Member Function Documentation

5.1.3.1 void Config::add_cmdline_option (const std::string *option*, const enum Argument *arg*)

Adds a supported command line option.

Parameters

<i>option</i>	The name of the option.
<i>arg</i>	The argument specification for the option.

5.1.3.2 bool Config::is_set (const std::string *option*) const

Checks is an option is set.

Parameters

<i>option</i>	The name of the option to check.
---------------	----------------------------------

Returns

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

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

operator[] overload.

Retrieves the value of a set option.

Parameters

<i>option</i>	The name of the option.
---------------	-------------------------

Returns

The value of the option.

Exceptions

<i>ConfigOptionNotSet()</i>	if the named option has not been set.
-----------------------------	---------------------------------------

5.1.3.4 void Config::populate_from_cmdline (const int *argc*, char *const * *argv*)

Populates options from the command line.

Parameters

<i>argc</i>	<i>argc</i> supplied to <code>main()</code> .
<i>argv</i>	<i>argv</i> supplied to <code>main()</code> .

Exceptions

<i>ConfigBadOption()</i>	if an unsupported option is specified, or if a required argument is missing, or if an unexpected argument is found.
--------------------------	---

5.1.3.5 void Config::populate_from_file (const std::string filename)

Populates options from a configuration file.

Parameters

<i>filename</i>	The name of the configuration file.
-----------------	-------------------------------------

Exceptions

<i>ConfigCouldNotOpenFile()</i>	if the configuration file cannot be opened.
<i>ConfigBadConfigFile()</i>	if the configuration file is badly formed.

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

- lib/config/[config.h](#)
- lib/config/[config.cpp](#)
- lib/config/[config_getopt.cpp](#)

5.2 genleg::ConfigBadConfigFile Class Reference

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

5.2.1 Detailed Description

Exception class for badly formed configuration file

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

- lib/config/[config.h](#)

5.3 genleg::ConfigBadOption Class Reference

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

5.3.1 Detailed Description

Exception class for bad provided option

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

- lib/config/[config.h](#)

5.4 genleg::ConfigCouldNotOpenFile Class Reference

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

5.4.1 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](#)

5.5 genleg::ConfigOptionNotSet Class Reference

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

5.5.1 Detailed Description

Exception class for option not set

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

- [lib/config/config.h](#)

5.6 glldb::DBConn Class Reference

Public Member Functions

- **DBConn** ([DBConnImp](#) *imp)
- [Table select](#) (std::string query)
- **DBConn** (const [DBConn](#) &)
- [DBConn](#) & **operator=** (const [DBConn](#) &)

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

- [lib/database/dbconn.h](#)
- [lib/database/dbconn.cpp](#)

5.7 glldb::DBConnCouldNotConnect Class Reference

Public Member Functions

- **DBConnCouldNotConnect** (const std::string &msg)

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

- [lib/database/dbconn.h](#)

5.8 glldb::DBConnCouldNotQuery Class Reference

Public Member Functions

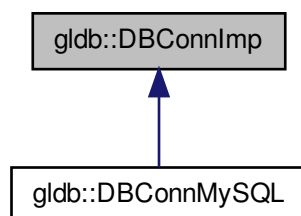
- **DBConnCouldNotQuery** (const std::string &msg)

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

- [lib/database/dbconn.h](#)

5.9 glldb::DBConnImp Class Reference

Inheritance diagram for glldb::DBConnImp:



Public Member Functions

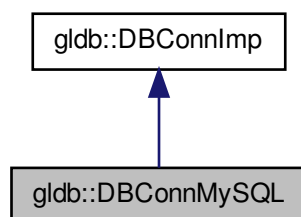
- virtual [Table select](#) (std::string query)=0

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

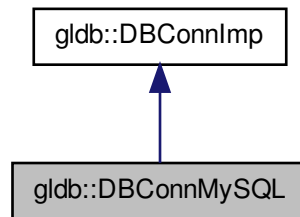
- lib/database/[dbconnimp.h](#)

5.10 glldb::DBConnMySQL Class Reference

Inheritance diagram for glldb::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 for DBConnMySQL_imp class.
- [DBConnMySQL](#) (const [DBConnMySQL](#) &)
- virtual [~DBConnMySQL](#) ()
Destructor for DBConnMySQL_imp class.
- [DBConnMySQL](#) & **operator=** (const [DBConnMySQL](#) &)
- [Table select](#) (std::string query)

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](#)

5.11 gldb::Table Class Reference

Public Member Functions

- [Table](#) (const [TableRow](#) &headers)
Constructor for Table class.
- [~Table](#) ()
Destructor for Table class.
- size_t **num_fields** () const
- size_t **num_records** () const
- const [TableRow](#) & **get_headers** () const
- const [TableRow](#) & **operator[]** (const size_t idx) const
- void **append_record** (const [TableRow](#) &new_record)

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

- lib/database/[table.h](#)
- lib/database/[table.cpp](#)

5.12 glldb::TableField Class Reference

Public Member Functions

- [TableField](#) ()
Constructor for [TableField](#) class.
- **TableField** (const char *data)
- **TableField** (const std::string &data)
- [~TableField](#) ()
Destructor for [TableField](#) class.
- size_t **length** () const
- **operator std::string** () const
- [TableField](#) & **operator=** (const char *data)
- [TableField](#) & **operator=** (const std::string &data)
- char & **operator[]** (const size_t idx)
- const char & **operator[]** (const size_t idx) const
- [TableField](#) & **operator+=** (const char &c)
- [TableField](#) & **operator+=** (const std::string &data)

Friends

- std::ostream & **operator<<** (std::ostream &out, const [TableField](#) &field)

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

- lib/database/[tablefield.h](#)
- lib/database/[tablefield.cpp](#)

5.13 glldb::TableRow Class Reference

Public Member Functions

- [TableRow](#) ()
Constructor for [TableRow](#) class.
- **TableRow** (const size_t size)
- [~TableRow](#) ()
Destructor for [TableRow](#) class.
- size_t **size** () const
- [TableField](#) & **operator[]** (const size_t idx)
- const [TableField](#) & **operator[]** (const size_t idx) const
- void **append_field** (const char *new_field)
- void **append_field** (const std::string &new_field)
- void **append_field** (const [TableField](#) &new_field)
- void **print** (std::ostream &stream) const

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

- lib/database/[tablerow.h](#)
- lib/database/[tablerow.cpp](#)

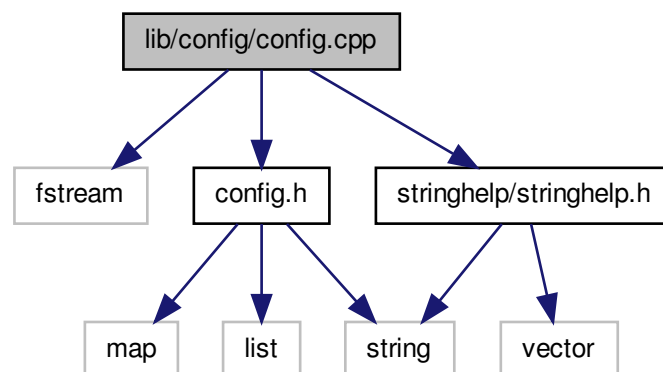
Chapter 6

File Documentation

6.1 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:
```



6.1.1 Detailed Description

Implementation of program configurations class.

Author

Paul Griffiths

Copyright

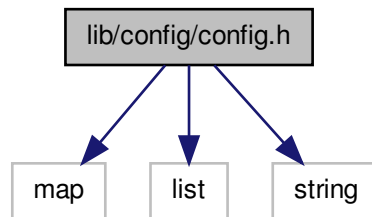
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6.2 lib/config/config.h File Reference

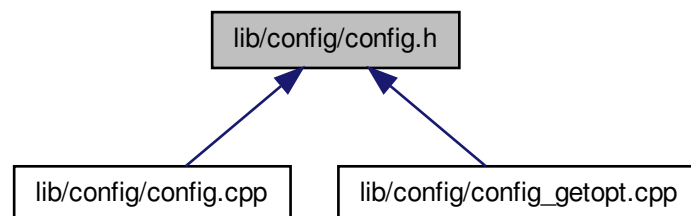
Interface to program configurations class.

```
#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::ConfigOptionNotSet](#)
- class [genleg::ConfigBadOption](#)
- class [genleg::ConfigCouldNotOpenFile](#)
- class [genleg::ConfigBadConfigFile](#)
- class [genleg::Config](#)

Enumerations

- enum **Argument**

6.2.1 Detailed Description

Interface to program configurations class.

Author

Paul Griffiths

Copyright

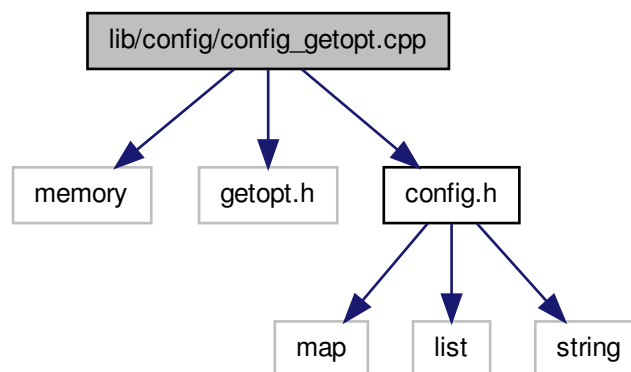
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6.3 lib/config/config_getopt.cpp File Reference

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`

6.3.1 Detailed Description

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

Author

Paul Griffiths

Copyright

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6.3.2 Macro Definition Documentation

6.3.2.1 `#define _XOPEN_SOURCE 600`

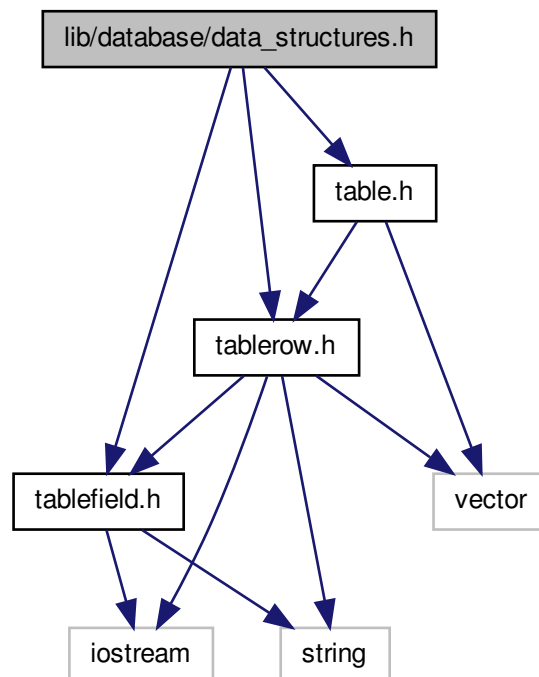
UNIX feature test macro for getopt library

6.4 `lib/database/data_structures.h` File Reference

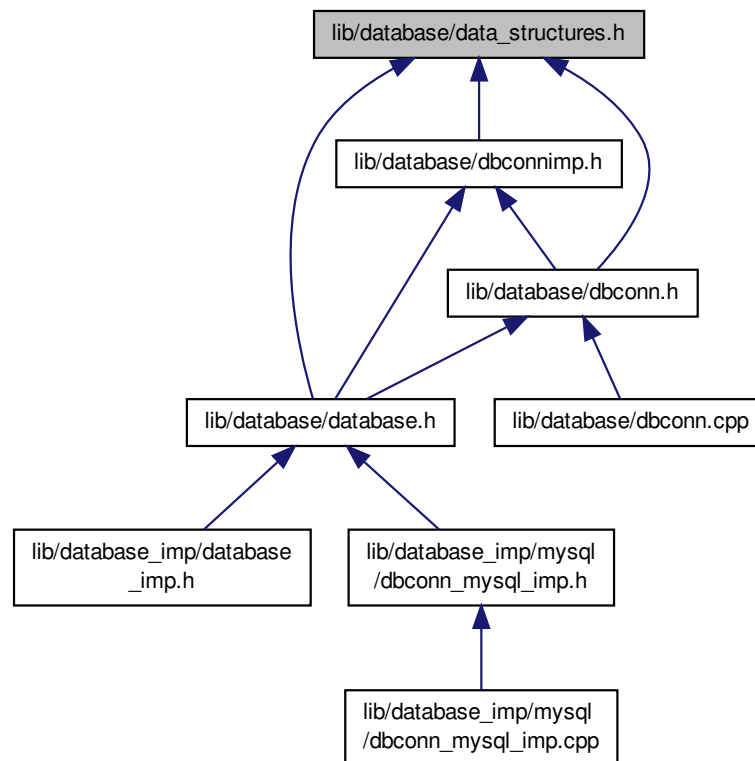
Main interface to database data structures.

```
#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:



6.4.1 Detailed Description

Main interface to database data structures.

Author

Paul Griffiths

Copyright

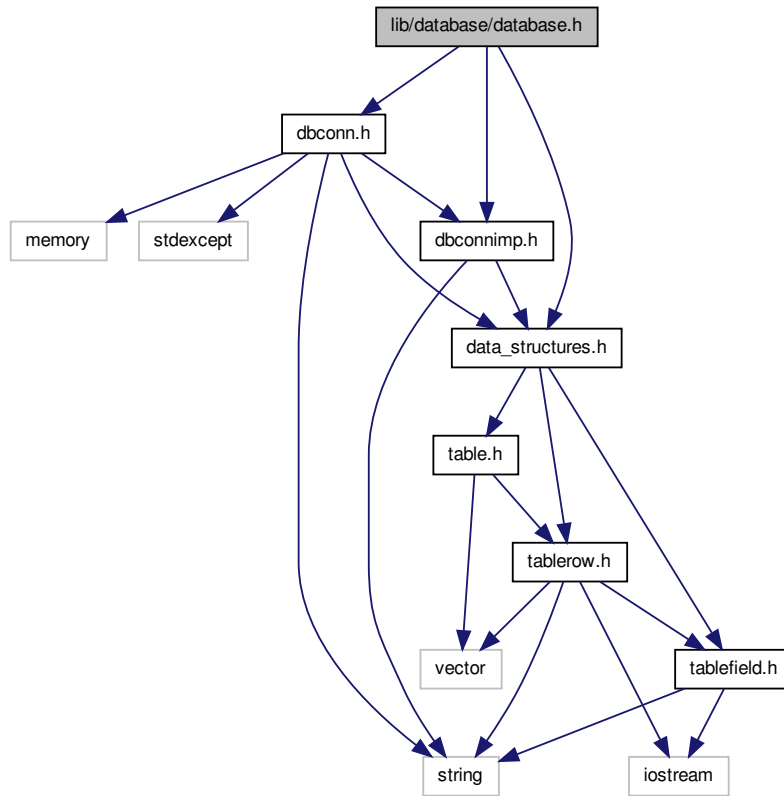
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6.5 lib/database/database.h File Reference

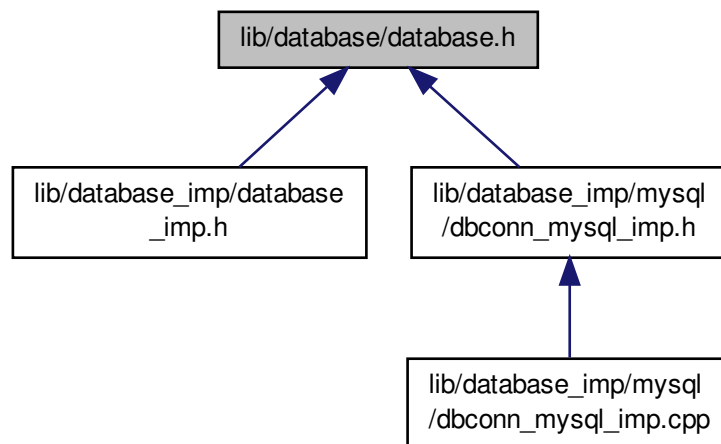
User interface to database functionality.

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

Include dependency graph for database.h:



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



6.5.1 Detailed Description

User interface to database functionality.

Author

Paul Griffiths

Copyright

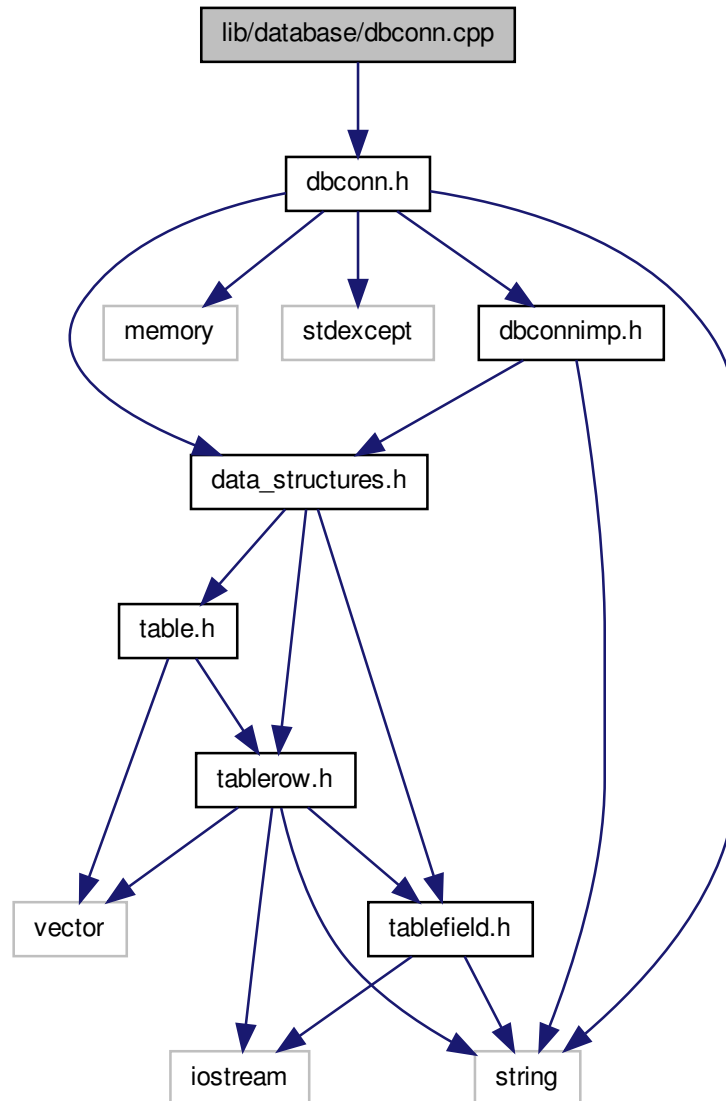
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6.6 lib/database/dbconn.cpp File Reference

Implementation of database connection abstract base class.

```
#include "dbconn.h"
```

Include dependency graph for dbconn.cpp:



6.6.1 Detailed Description

Implementation of database connection abstract base class. Implementation of database connection abstract base class

Author

Paul Griffiths

Copyright

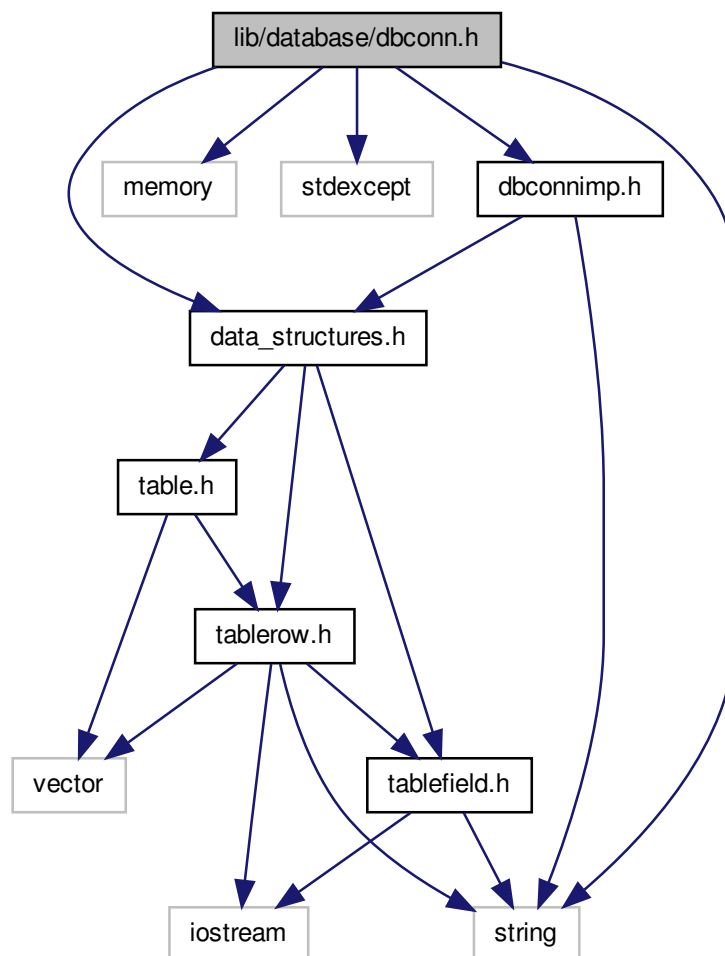
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6.7 lib/database/dbconn.h File Reference

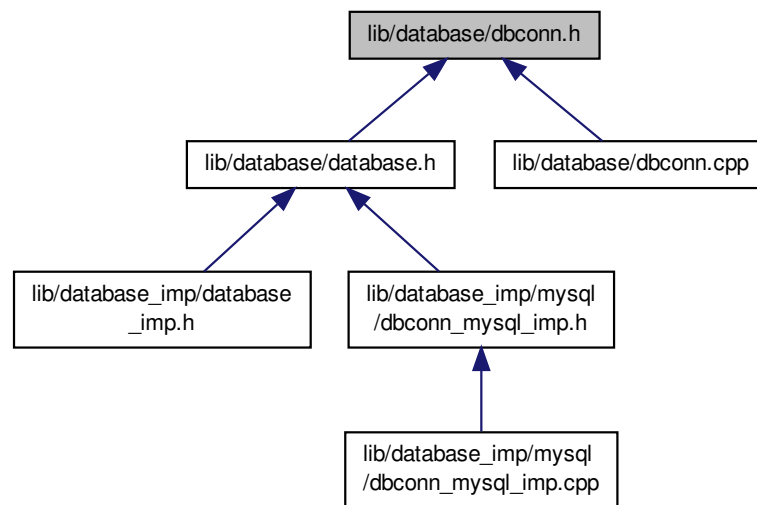
Interface to database connection abstract base class.

```
#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::DBConnCouldNotConnect`
- class `gldb::DBConnCouldNotQuery`
- class `gldb::DBConn`

6.7.1 Detailed Description

Interface to database connection abstract base class. Interface to database connection abstract base class

Author

Paul Griffiths

Copyright

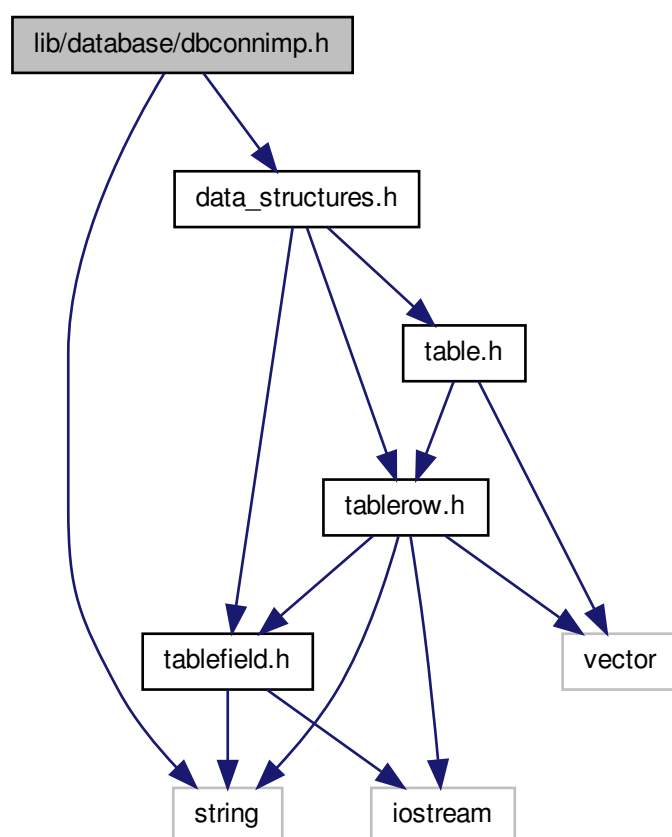
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6.8 lib/database/dbconnimp.h File Reference

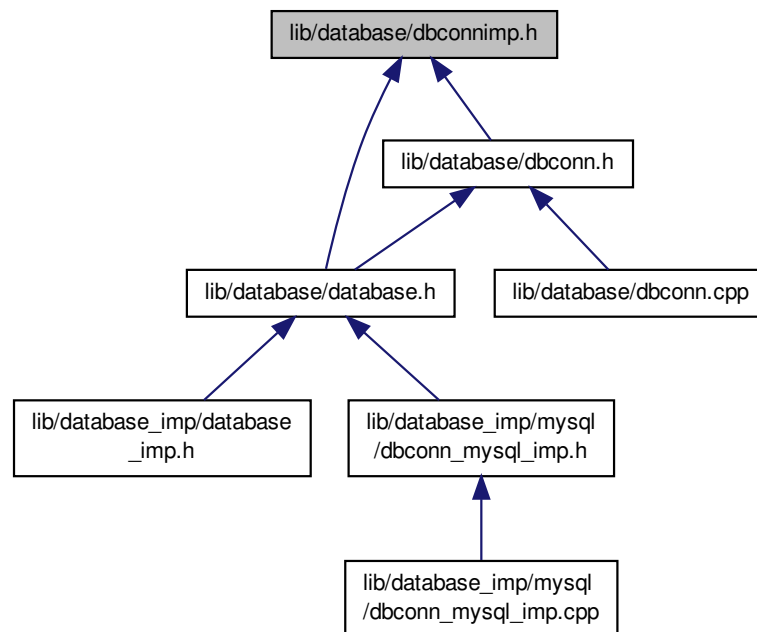
Interface to abstract database implementation base class.

```
#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](#)

6.8.1 Detailed Description

Interface to abstract database implementation base class. Interface to abstract database implementation base class

Author

Paul Griffiths

Copyright

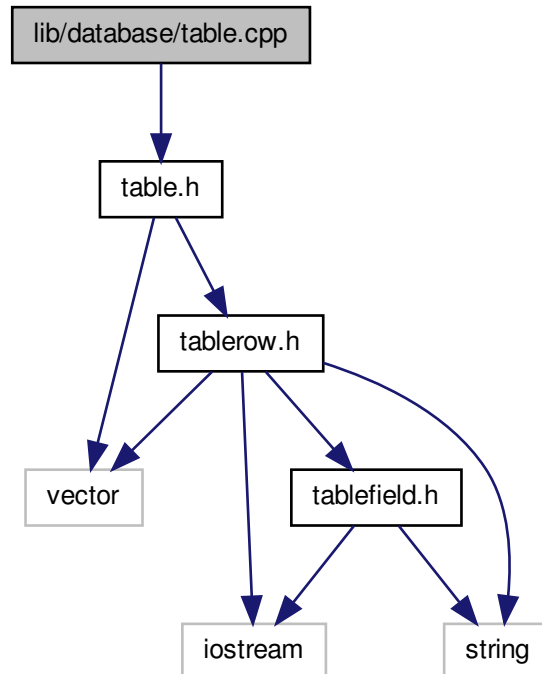
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6.9 lib/database/table.cpp File Reference

Implementation of table data structure.

```
#include "table.h"
```

Include dependency graph for table.cpp:



6.9.1 Detailed Description

Implementation of table data structure. Implementation of table data structure

Author

Paul Griffiths

Copyright

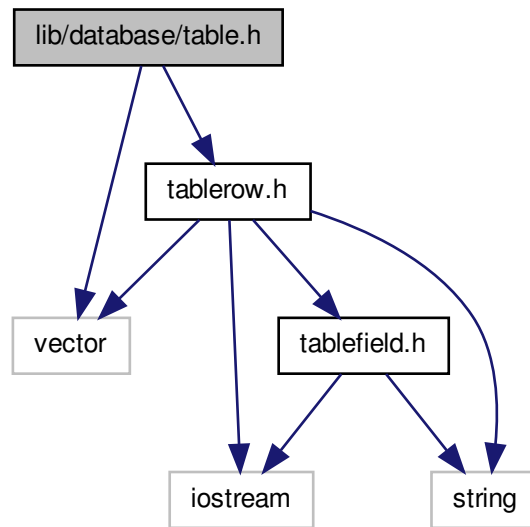
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6.10 lib/database/table.h File Reference

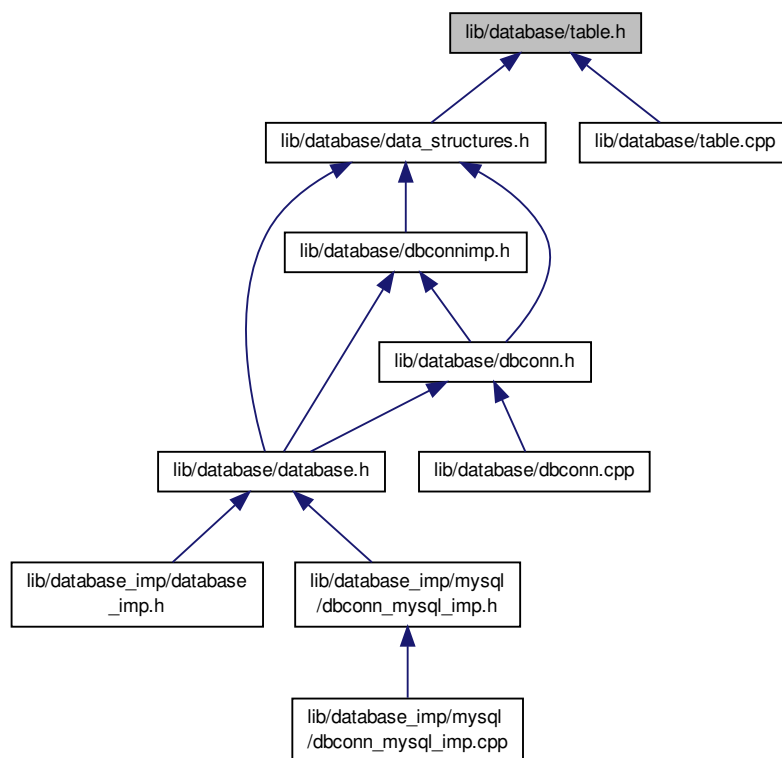
Interface to table data structure.

```
#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::Table](#)

6.10.1 Detailed Description

Interface to table data structure. Interface to table data structure

Author

Paul Griffiths

Copyright

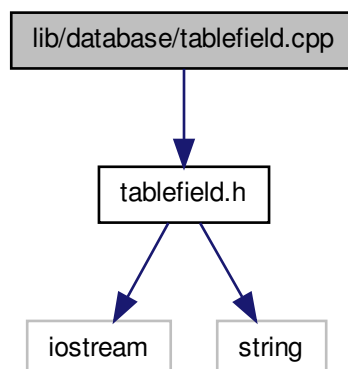
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6.11 lib/database/tablefield.cpp File Reference

Implementation of table field class.

```
#include "tablefield.h"
```

Include dependency graph for tablefield.cpp:



6.11.1 Detailed Description

Implementation of table field class. Implementation of table field class

Author

Paul Griffiths

Copyright

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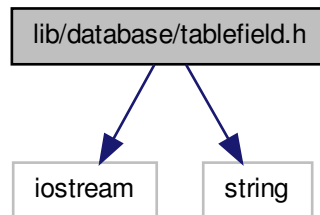
6.12 lib/database/tablefield.h File Reference

Interface to table field class.

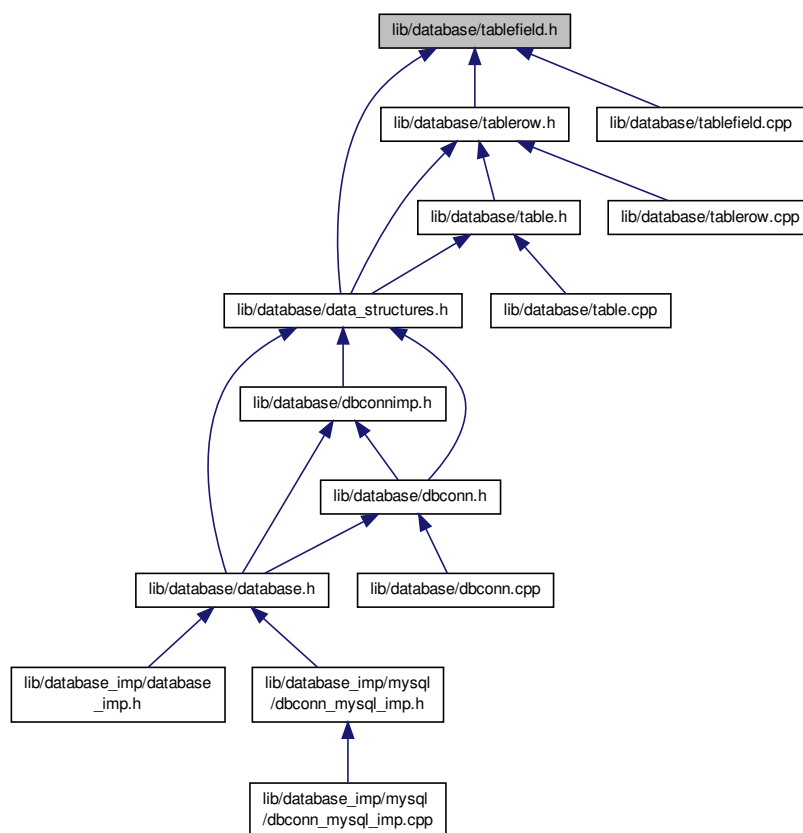
```
#include <iostream>
```

```
#include <string>
```

Include dependency graph for tablefield.h:



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



Classes

- class `gldb::TableField`

Functions

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

6.12.1 Detailed Description

Interface to table field class. Interface to table field class

Author

Paul Griffiths

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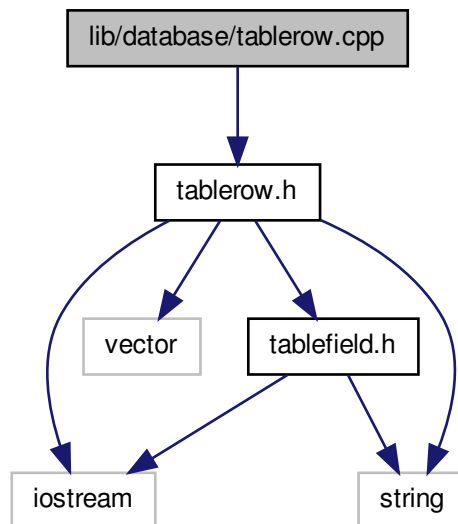
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6.13 lib/database/tablerow.cpp File Reference

Implementation of table row data structure.

```
#include "tablerow.h"
```

Include dependency graph for tablerow.cpp:



6.13.1 Detailed Description

Implementation of table row data structure. Implementation of table row data structure

Author

Paul Griffiths

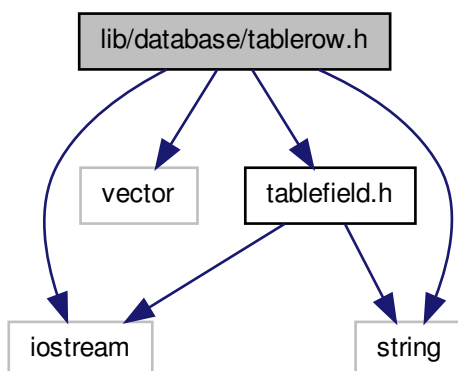
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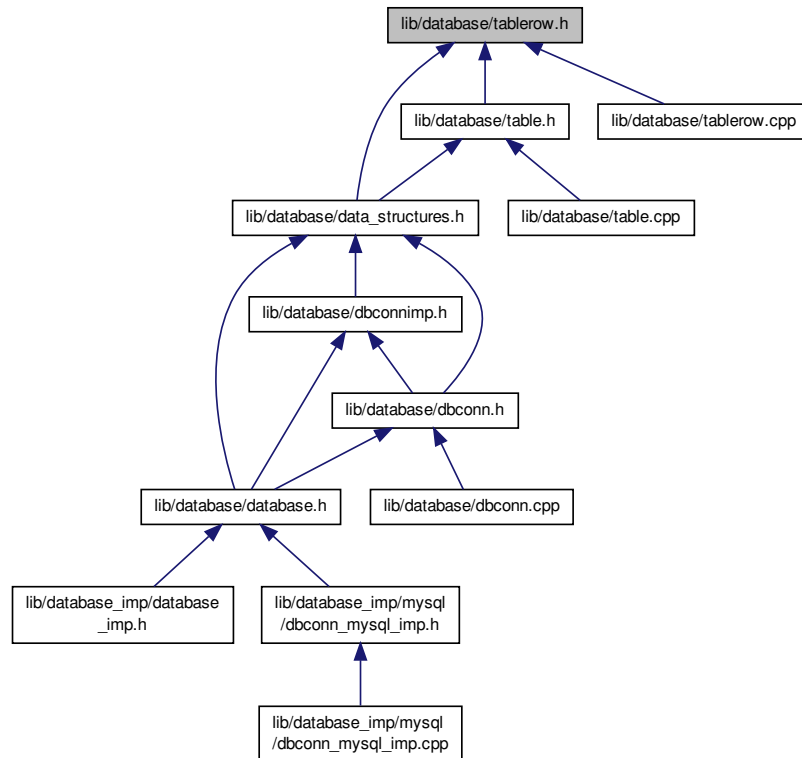
6.14 lib/database/tablerow.h File Reference

Interface to 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`

6.14.1 Detailed Description

Interface to table row data structure. Interface to table row data structure

Author

Paul Griffiths

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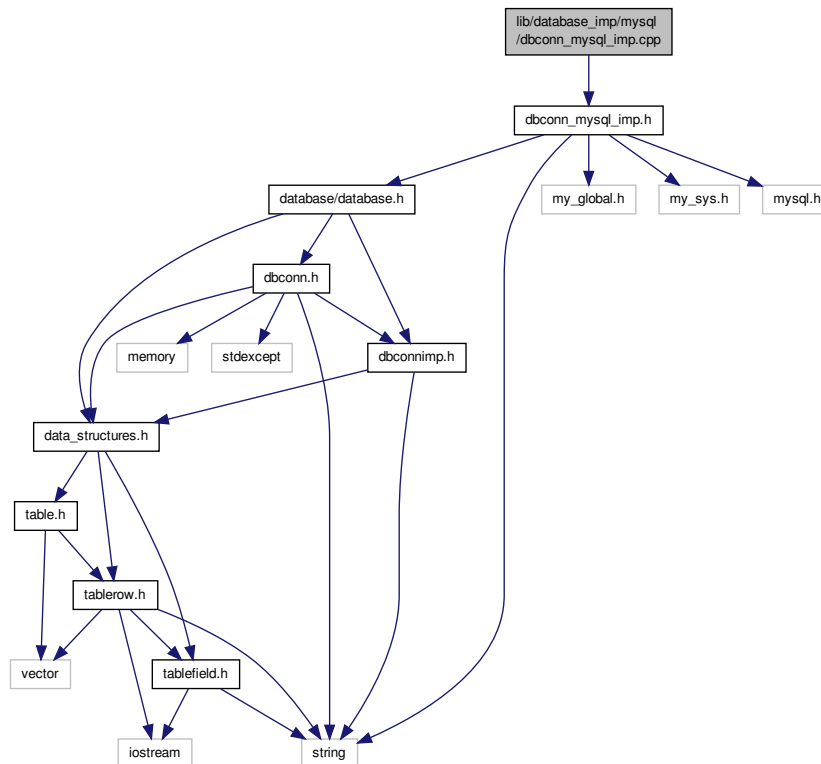
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6.15 lib/database_imp/mysql/dbconn_mysql_imp.cpp File Reference

Implementation of MySQL database connection implementation class.

```
#include "dbconn_mysql_imp.h"
```

Include dependency graph for dbconn_mysql_imp.cpp:



6.15.1 Detailed Description

Implementation of MySQL database connection implementation class. Implementation of MySQL database connection implementation class

Author

Paul Griffiths

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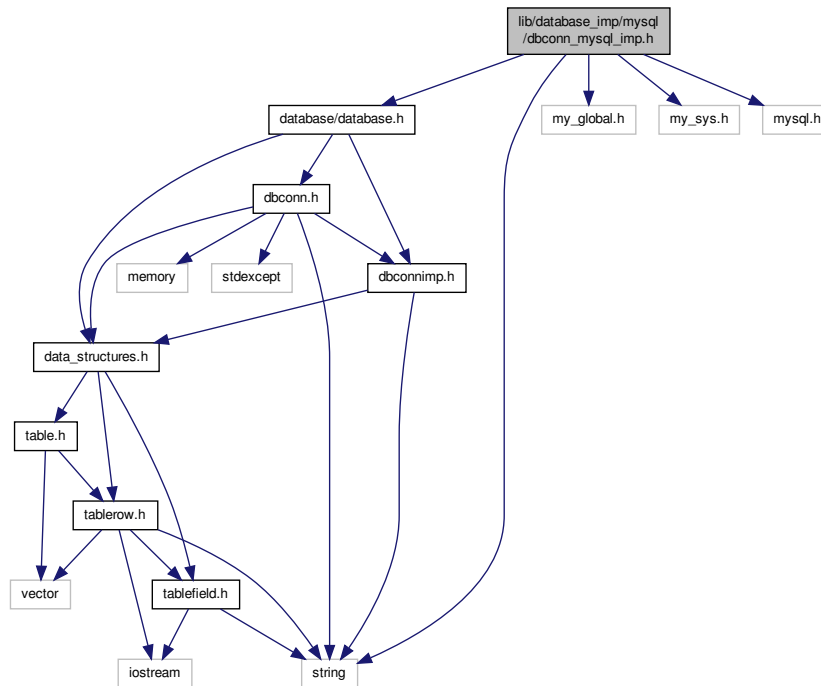
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6.16 lib/database_imp/mysql/dbconn_mysql_imp.h File Reference

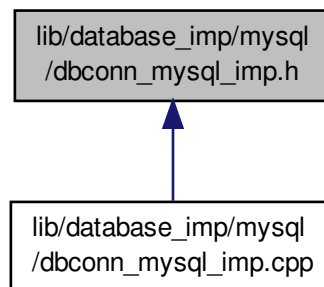
Interface to MySQL database connection implementation class.

```
#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](#)

6.16.1 Detailed Description

Interface to MySQL database connection implementation class. Interface to MySQL database connection implementation class

Author

Paul Griffiths

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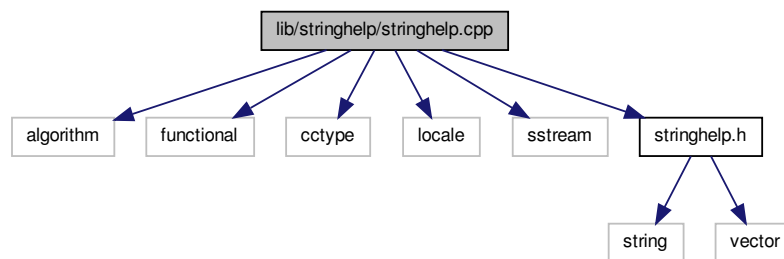
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6.17 lib/stringhelp/stringhelp.cpp File Reference

Implementation of string helper functions.

```
#include <algorithm>
#include <functional>
#include <cctype>
#include <locale>
#include <sstream>
#include "stringhelp.h"
```

Include dependency graph for stringhelp.cpp:



6.17.1 Detailed Description

Implementation of string helper functions.

Author

Paul Griffiths

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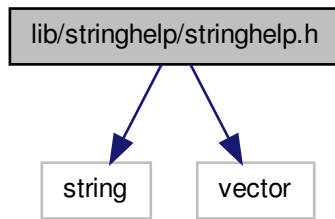
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6.18 lib/stringhelp/stringhelp.h File Reference

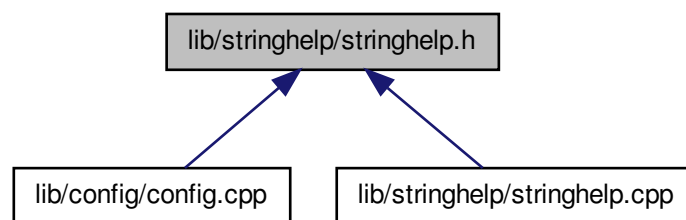
Interface to string helper functions.

```
#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.

6.18.1 Detailed Description

Interface to string helper functions.

Author

Paul Griffiths

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