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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Namespace Index

2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

Chapter 3

Class Index

3.1 Class Hierarchy

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

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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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Here is a list of all files with brief descriptions:

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- class Table
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- DBConnImp * get_connection (const std::string database, const std::string hostname, const std::string username, const std::string password)

6.2.1 Function Documentation

6.2.1.1 DBConnImp * gldb::get_connection (const std::string *database*, const std::string *hostname*, const std::string *username*, const std::string *password*)

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

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- std::string & trim_front (std::string &s)

  Trims leading whitespace from a string.
- std::string & trim_back (std::string &s)

  Trims trailing whitespace from a string.
- std::string & trim (std::string &s)

  Trims leading and trailing whitespace from a string.
- std::vector< std::string > split (const std::string &s, const char delim)

  Splits a delimited string into tokens.

6.3.1 Function Documentation

6.3.1.1 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.

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

Trims leading and trailing whitespace from a string.

Parameters

s	The string to trim.

Returns

The trimmed string.

6.3.1.3 std::string & pgstring::trim_back (std::string & *s*)

Trims trailing whitespace from a string.

Parameters

s	The string to trim.

Returns

The trimmed string.

6.3.1.4 std::string & pgstring::trim_front (std::string & *s*)

Trims leading whitespace from a string.

Parameters

s	The string to trim.

Returns

The trimmed string.

Chapter 7

Class Documentation

7.1 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)
- void populate_from_cmdline (const int argc, char ∗const ∗argv)
- void populate_from_file (const std::string filename)
- bool is_set (const std::string option) const
- const std::string & operator[] (const std::string &option) const

7.1.1 Constructor & Destructor Documentation

7.1.1.1 Config::Config ( )

Constructor for Config class.

7.1.1.2 Config::∼Config ( )

Destructor for Config class.

7.1.2 Member Function Documentation

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

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

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

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

7.1.2.5 void Config::populate_from_file (const std::string *filename*)

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

`#include <config.h>`

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

- lib/config/config.h

7.3 genleg::ConfigBadOption Class Reference

`#include <config.h>`

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

- lib/config/config.h

7.4 genleg::ConfigCouldNotOpenFile Class Reference

`#include <config.h>`

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

- lib/config/config.h

7.5 genleg::ConfigOptionNotSet Class Reference

`#include <config.h>`

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

- lib/config/config.h

7.6 gldb::DBConn Class Reference

`#include <dbconn.h>`

Public Member Functions

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

7.6.1 Constructor & Destructor Documentation

7.6.1.1 DBConn::DBConn (DBConnImp * *imp*)

7.6.1.2 DBConn::~DBConn ( )

7.6.1.3 gldb::DBConn::DBConn (const DBConn &)

7.6.2 Member Function Documentation

7.6.2.1 DBConn& gldb::DBConn::operator= (const DBConn &)

7.6.2.2 Table DBConn::select (std::string *query*)

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

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

7.7 gldb::DBConnCouldNotConnect Class Reference

`#include <dbconn.h>`

Public Member Functions

- DBConnCouldNotConnect (const std::string &msg)

7.7.1 Constructor & Destructor Documentation

7.7.1.1 gldb::DBConnCouldNotConnect::DBConnCouldNotConnect (const std::string & *msg*) [inline]

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

- lib/database/dbconn.h

7.8 gldb::DBConnCouldNotQuery Class Reference

`#include <dbconn.h>`

Public Member Functions

- DBConnCouldNotQuery (const std::string &msg)

7.8.1 Constructor & Destructor Documentation

7.8.1.1 gldb::DBConnCouldNotQuery::DBConnCouldNotQuery (const std::string & *msg*) [inline]

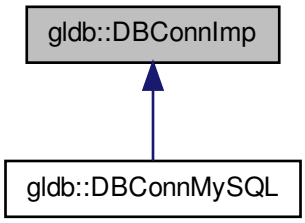
The documentation for this class was generated from the following file:

- lib/database/dbconn.h

7.9 gldb::DBConnImp Class Reference

`#include <dbconnimp.h>`

Inheritance diagram for gldb::DBConnImp:



Public Member Functions

- DBConnImp ()
- virtual ~DBConnImp ()
- virtual Table select (std::string query)=0

7.9.1 Constructor & Destructor Documentation

7.9.1.1 gldb::DBConnImp::DBConnImp ( ) [inline]

7.9.1.2 virtual gldb::DBConnImp::~DBConnImp ( ) [inline], [virtual]

7.9.2 Member Function Documentation

7.9.2.1 virtual Table gldb::DBConnImp::select (std::string *query*) [pure virtual]

Implemented in gldb::DBConnMySQL.

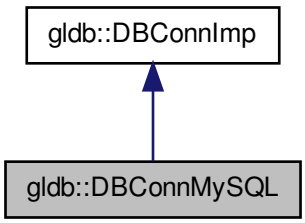
The documentation for this class was generated from the following file:

- lib/database/dbconnimp.h

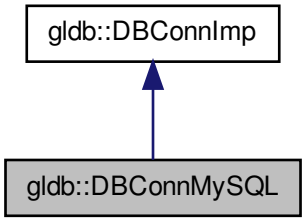
7.10 gldb::DBConnMySQL Class Reference

`#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 for DBConnMySQL_imp class.
- DBConnMySQL (const DBConnMySQL &)
- virtual ~DBConnMySQL ()

  Destructor for DBConnMySQL_imp class.
- DBConnMySQL & operator= (const DBConnMySQL &)
- Table select (std::string query)

7.10.1 Constructor & Destructor Documentation

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

Constructor for DBConnMySQL_imp class.

7.10.1.2 gldb::DBConnMySQL::DBConnMySQL (const DBConnMySQL &)

7.10.1.3 DBConnMySQL::~DBConnMySQL ( ) [virtual]

Destructor for DBConnMySQL_imp class.

7.10.2 Member Function Documentation

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

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

Implements gldb::DBConnImp.

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

7.11 gldb::Table Class Reference

`#include <table.h>`

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)

7.11.1 Constructor & Destructor Documentation

7.11.1.1 Table::Table (const TableRow & *headers*)

Constructor for Table class.

7.11.1.2 Table::~Table ( )

Destructor for Table class.

7.11.2 Member Function Documentation

7.11.2.1 void Table::append_record (const TableRow & *new_record*)

7.11.2.2 const TableRow & Table::get_headers ( ) const

7.11.2.3 size_t Table::num_fields ( ) const

7.11.2.4 size_t Table::num_records ( ) const

7.11.2.5 const TableRow & Table::operator[] (const size_t *idx*) const

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

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

7.12 gldb::TableField Class Reference

`#include <tablefield.h>`

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)

7.12.1 Constructor & Destructor Documentation

7.12.1.1 TableField::TableField ( )

Constructor for TableField class.

7.12.1.2 TableField::TableField (const char * *data*)

7.12.1.3 TableField::TableField (const std::string & *data*)

7.12.1.4 TableField::~TableField ( )

Destructor for TableField class.

7.12.2 Member Function Documentation

7.12.2.1 size_t TableField::length ( ) const

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

7.12.2.3 TableField & TableField::operator+= (const char & *c*)

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

7.12.2.5 TableField & TableField::operator= (const char * *data*)

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

7.12.2.7 char & TableField::operator[] (const size_t *idx*)

7.12.2.8 const char & TableField::operator[] (const size_t *idx*) const

7.12.3 Friends And Related Function Documentation

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

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

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

7.13 gldb::TableRow Class Reference

`#include <tablerow.h>`

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

7.13.1 Constructor & Destructor Documentation

7.13.1.1 TableRow::TableRow ( )

Constructor for TableRow class.

7.13.1.2 TableRow::TableRow (const size_t *size*)

7.13.1.3 TableRow::~TableRow ( )

Destructor for TableRow class.

7.13.2 Member Function Documentation

7.13.2.1 void TableRow::append_field (const char * *new_field*)

7.13.2.2 void TableRow::append_field (const std::string & *new_field*)

7.13.2.3 void TableRow::append_field (const **TableField** & *new_field*)

7.13.2.4 **TableField** & TableRow::operator[] (const size_t *idx*)

7.13.2.5 const **TableField** & TableRow::operator[] (const size_t *idx*) const

7.13.2.6 void TableRow::print (std::ostream & *stream*) const

7.13.2.7 size_t TableRow::size ( ) const

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

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

Chapter 8

File Documentation

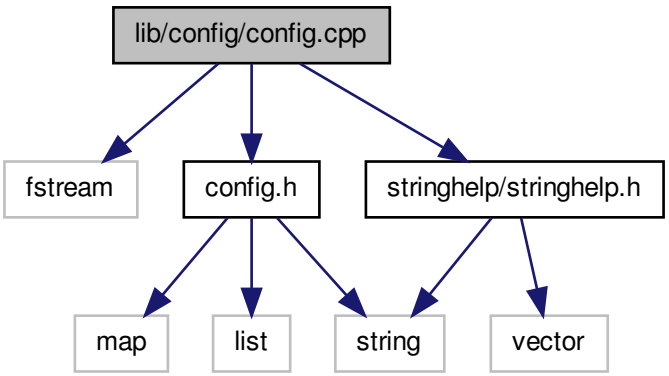
8.1 general_ledger.dox File Reference

8.2 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:



8.2.1 Detailed Description

Implementation of program configurations class.

Author

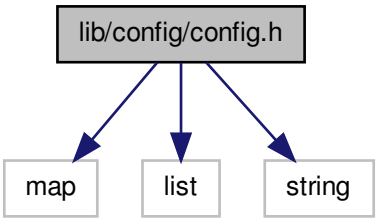
Paul Griffiths

8.3 lib/config/config.h File Reference

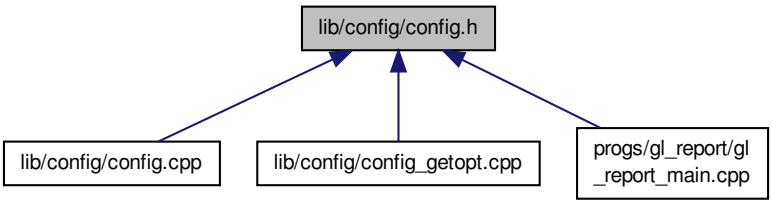
Interface to program configurations class.

```
#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

Namespaces

- namespace genleg

Enumerations

- enum genleg::Argument

8.3.1 Detailed Description

Interface to program configurations class. Interface to program configurations class

Author

Paul Griffiths

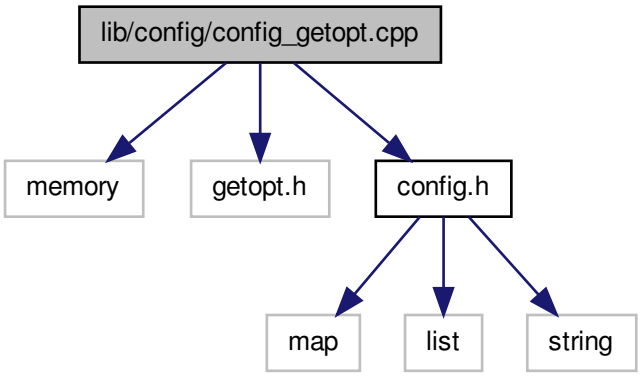
Copyright

8.4 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

8.4.1 Detailed Description

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

Author

Paul Griffiths

Copyright

8.4.2 Macro Definition Documentation

8.4.2.1 #define _XOPEN_SOURCE 600

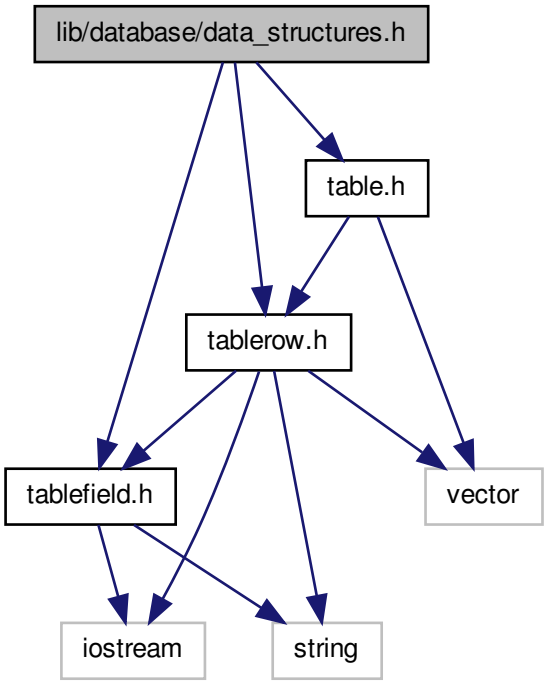
UNIX feature test macro for getopt library

8.5 lib/database/data_structures.h File Reference

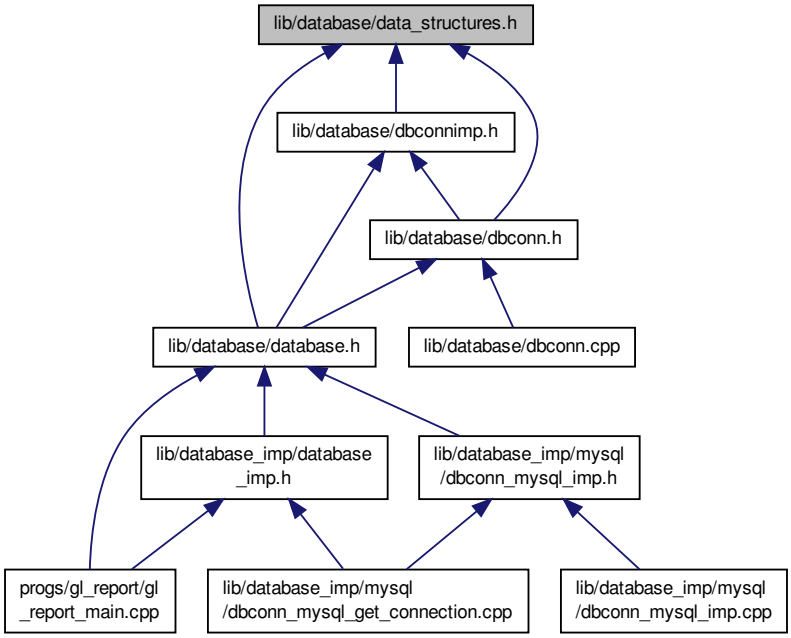
Main interface to database data structures.

```
#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:



8.5.1 Detailed Description

Main interface to database data structures.

Author

Paul Griffiths

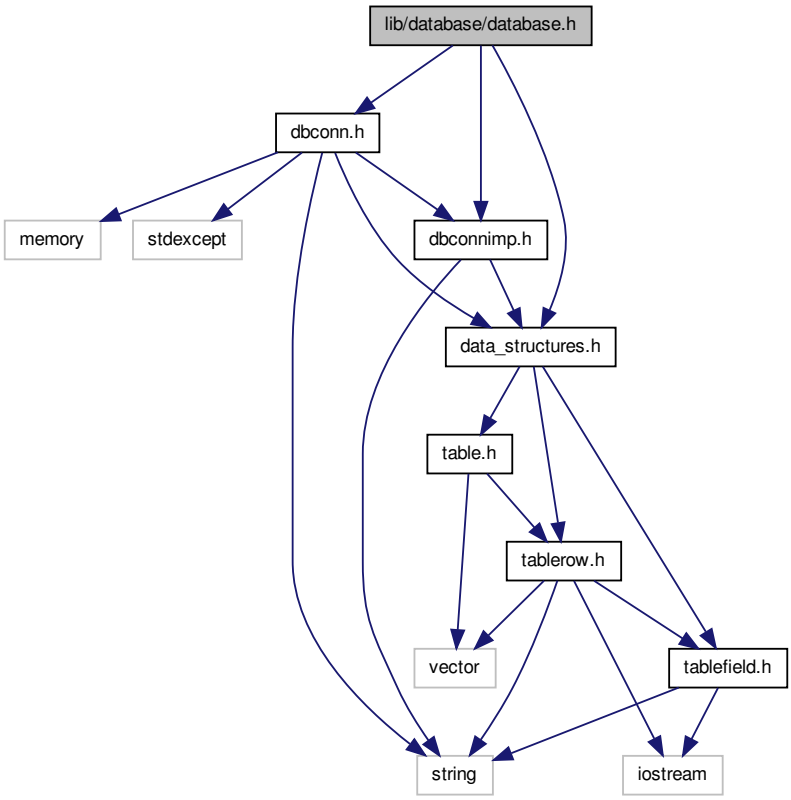
Copyright

8.6 lib/database/database.h File Reference

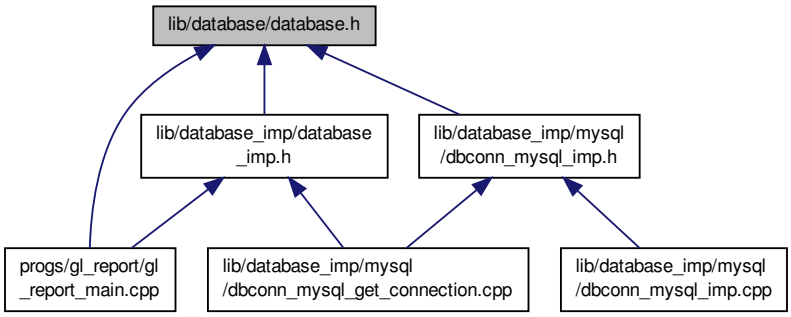
User interface to database functionality.

```
#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:



8.6.1 Detailed Description

User interface to database functionality.

Author

Paul Griffiths

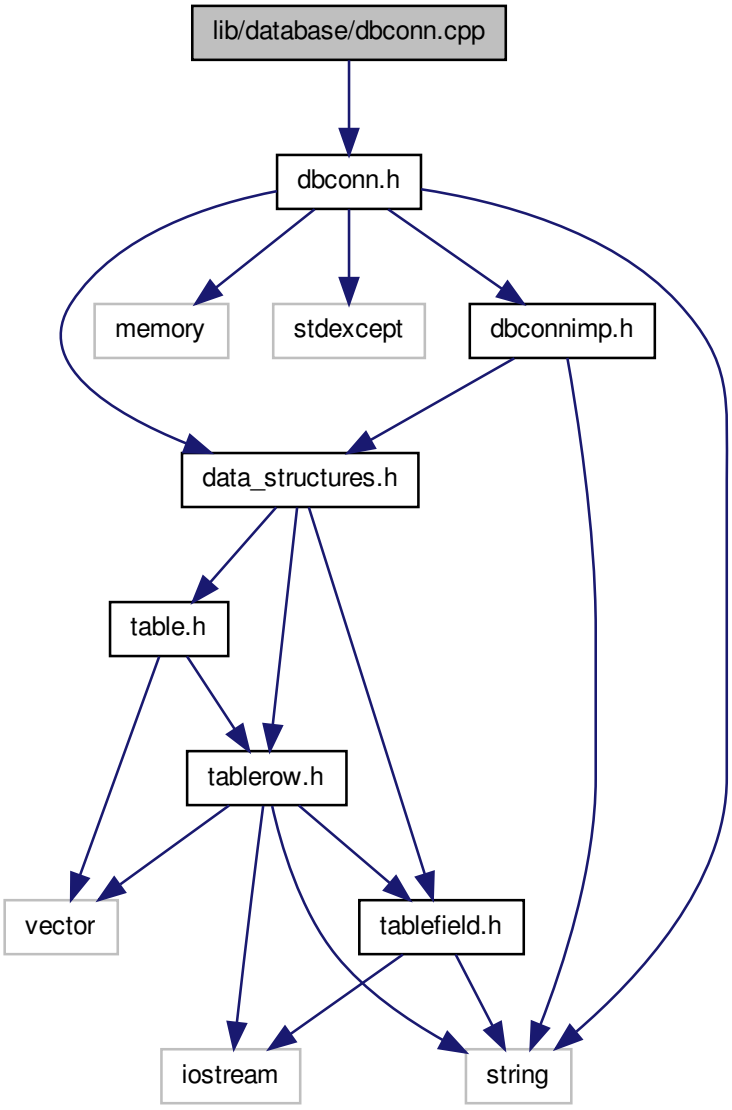
Copyright

8.7 lib/database/dbconn.cpp File Reference

Implementation of database connection abstract base class.

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

Include dependency graph for dbconn.cpp:



8.7.1 Detailed Description

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

Author

Paul Griffiths

Copyright

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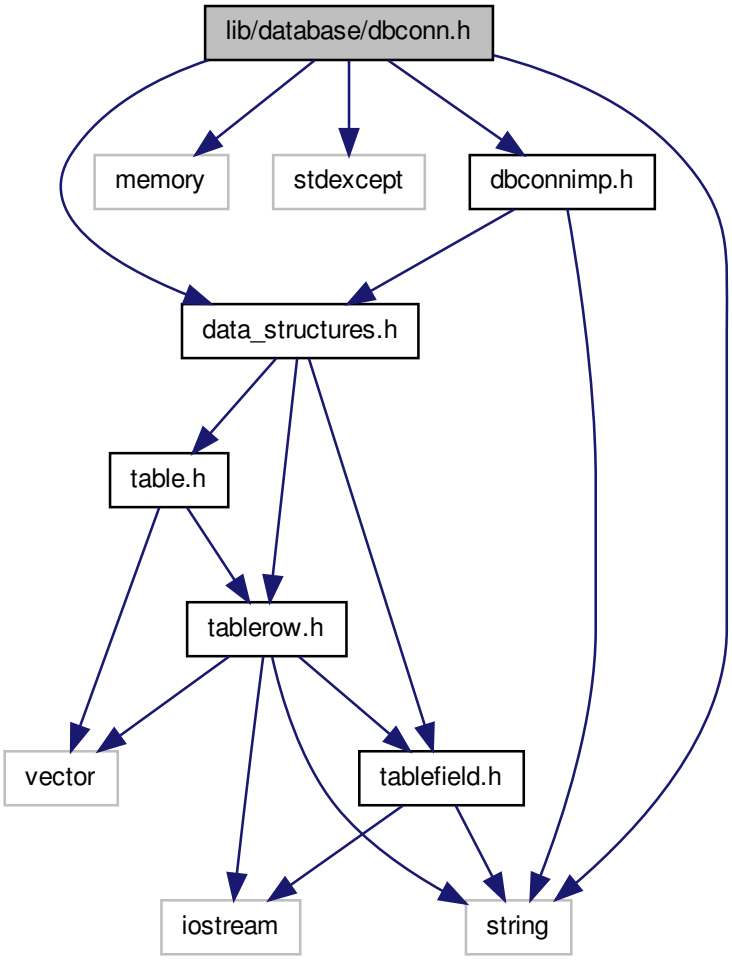
8.8 lib/database/dbconn.h File Reference

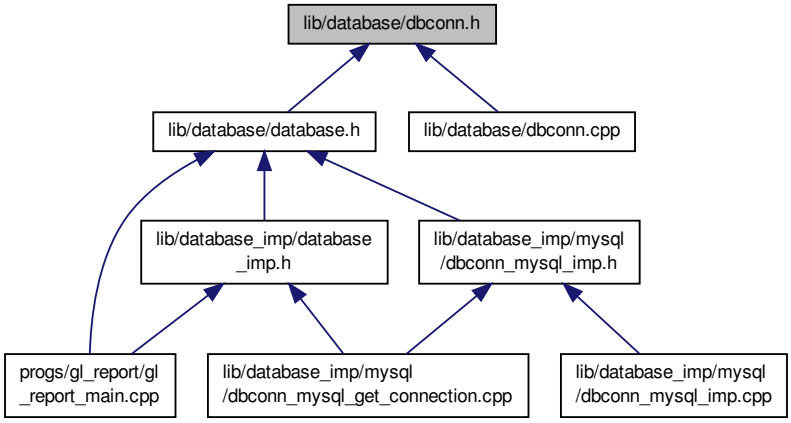
Interface to database connection abstract base class.

```
#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

Namespaces

- namespace gldb

8.8.1 Detailed Description

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

Author

Paul Griffiths

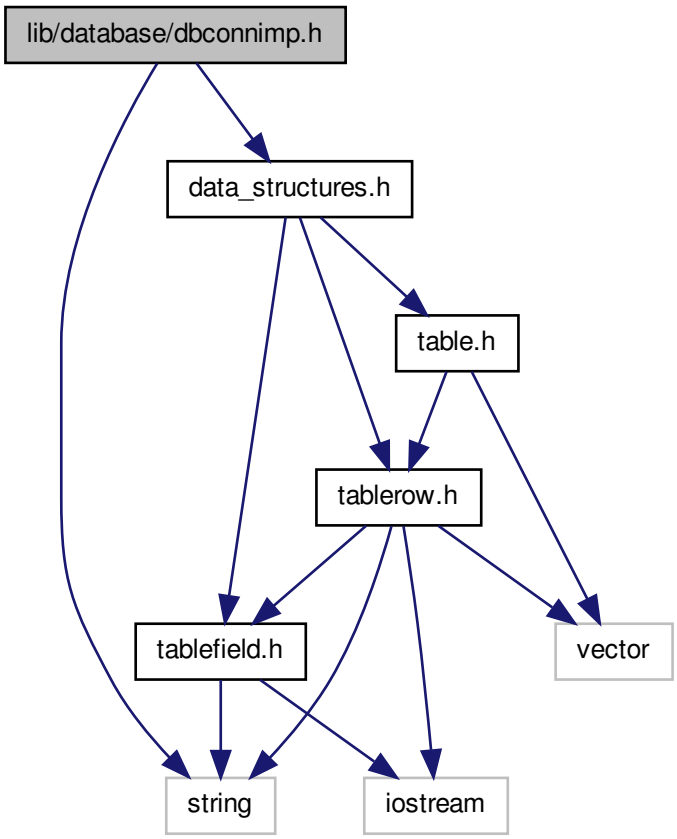
Copyright

8.9 lib/database/dbconnimp.h File Reference

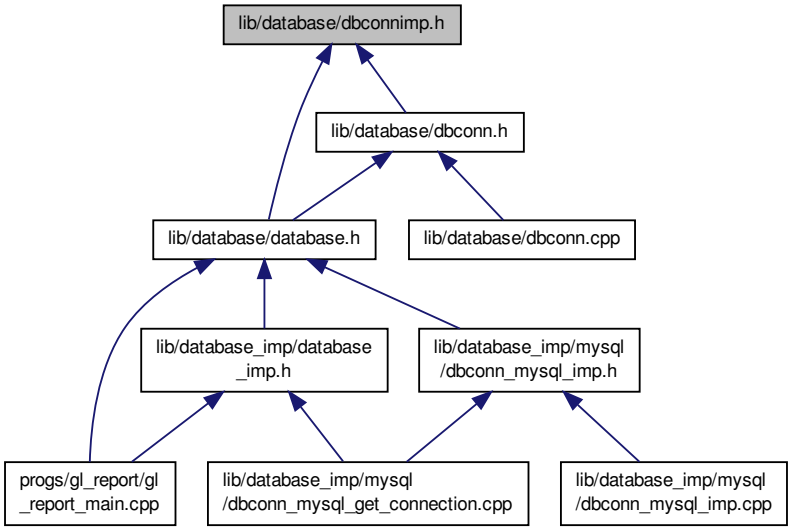
Interface to abstract database implementation base class.

```
#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

Namespaces

- namespace gldb

8.9.1 Detailed Description

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

Author

Paul Griffiths

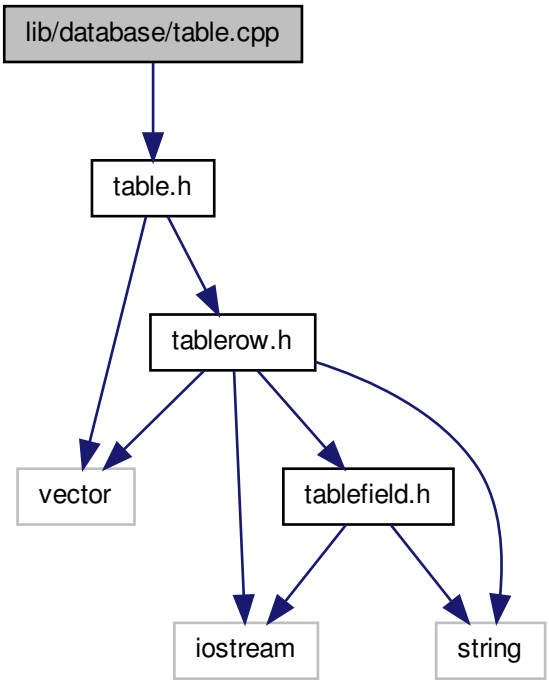
Copyright

8.10 lib/database/table.cpp File Reference

Implementation of table data structure.

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

Include dependency graph for table.cpp:



8.10.1 Detailed Description

Implementation of table data structure. Implementation of table data structure

Author

Paul Griffiths

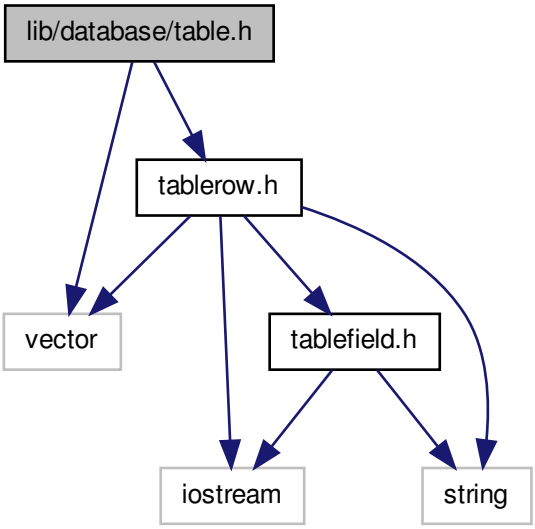
Copyright

8.11 lib/database/table.h File Reference

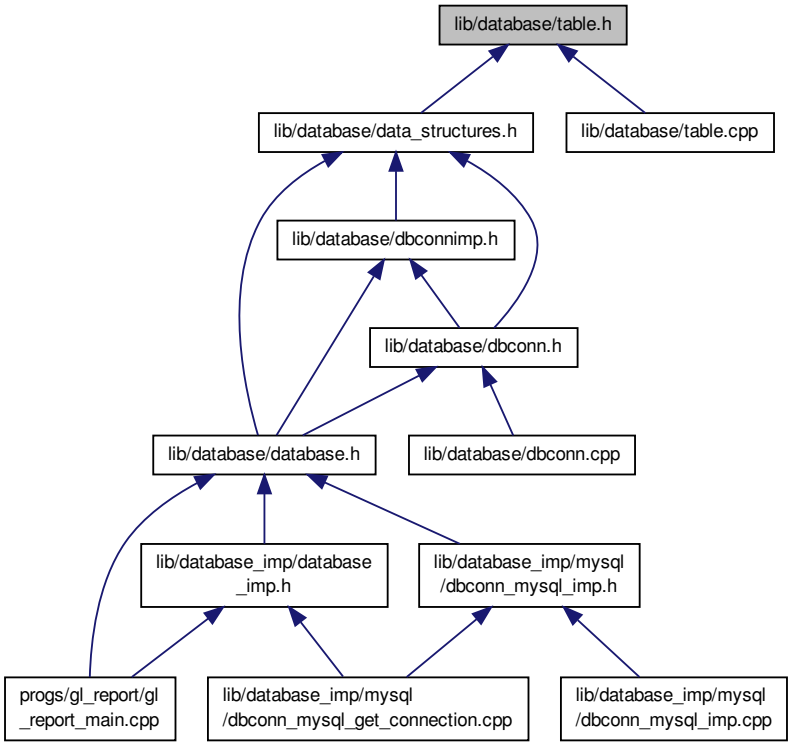
Interface to table data structure.

```
#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

Namespaces

- namespace gldb

8.11.1 Detailed Description

Interface to table data structure. Interface to table data structure

Author

Paul Griffiths

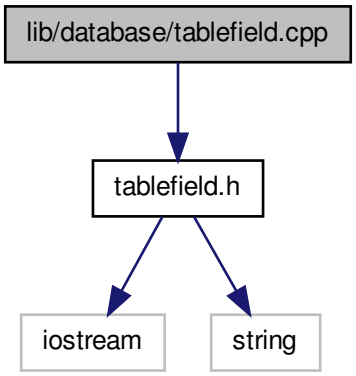
Copyright

8.12 lib/database/tablefield.cpp File Reference

Implementation of table field class.

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

Include dependency graph for tablefield.cpp:



8.12.1 Detailed Description

Implementation of table field class. Implementation of table field class

Author

Paul Griffiths

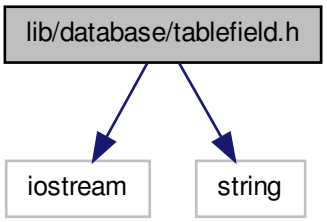
Copyright

8.13 lib/database/tablefield.h File Reference

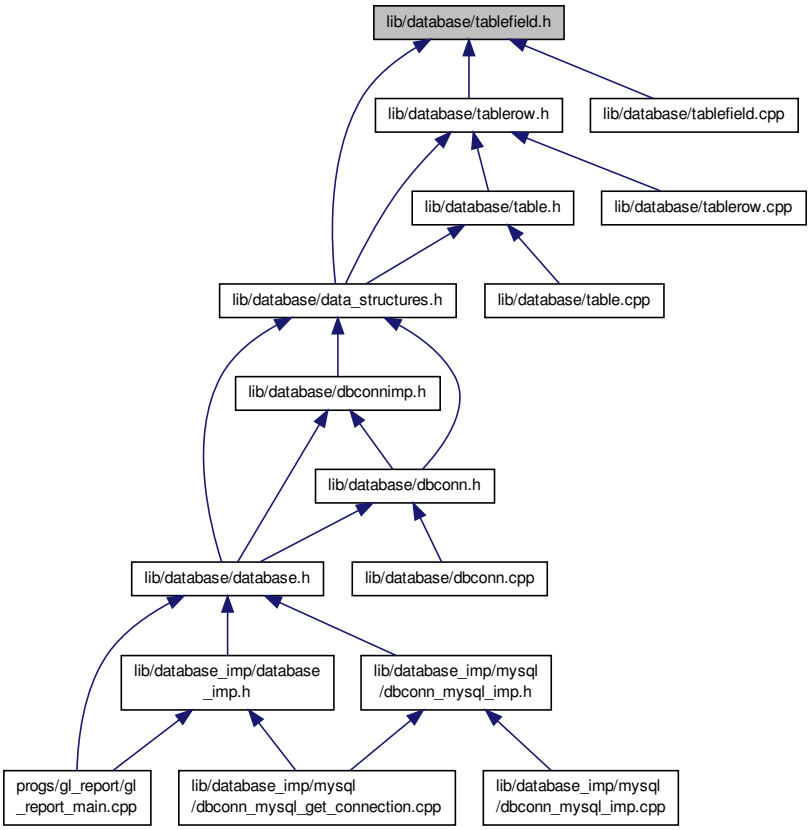
Interface to table field class.

```
#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

Namespaces

- namespace gldb

Functions

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

8.13.1 Detailed Description

Interface to table field class. Interface to table field class

Author

Paul Griffiths

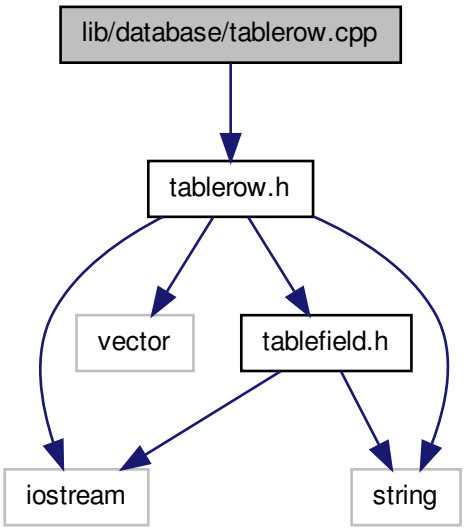
Copyright

8.14 lib/database/tablerow.cpp File Reference

Implementation of table row data structure.

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

Include dependency graph for tablerow.cpp:



8.14.1 Detailed Description

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

Author

Paul Griffiths

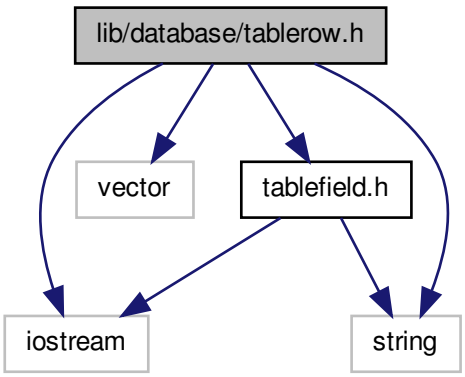
Copyright

8.15 lib/database/tablerow.h File Reference

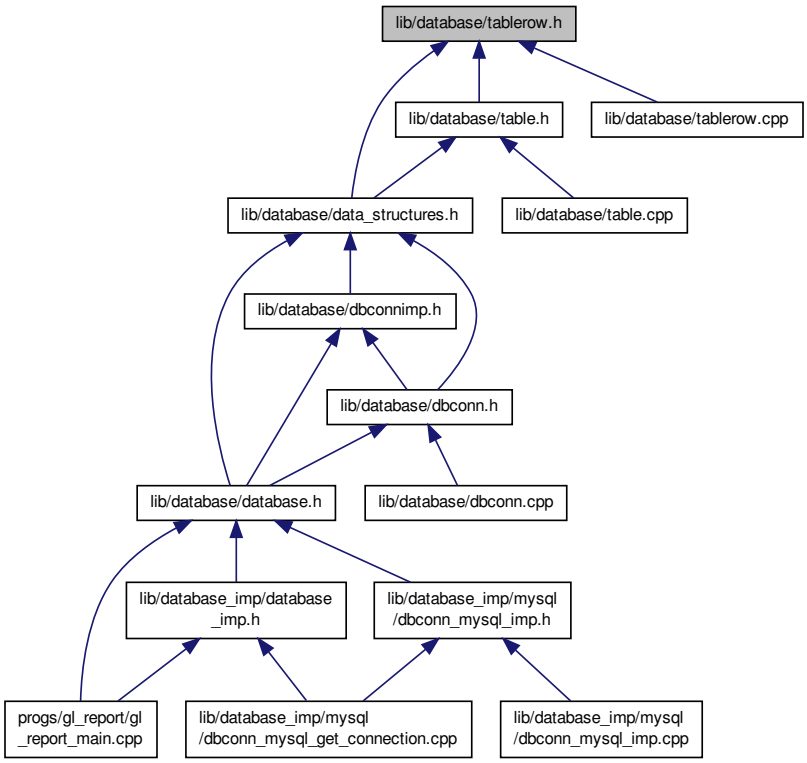
Interface to table row data structure.

```
#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

Namespaces

- namespace gldb

8.15.1 Detailed Description

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

Author

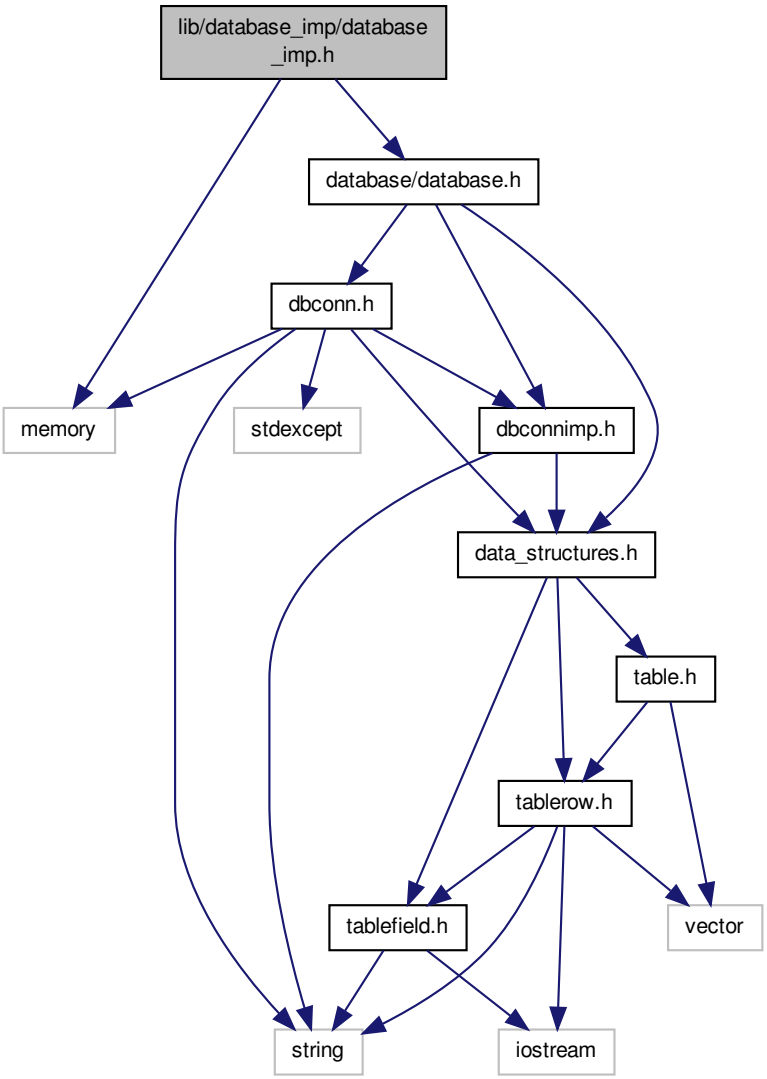
Paul Griffiths

Copyright

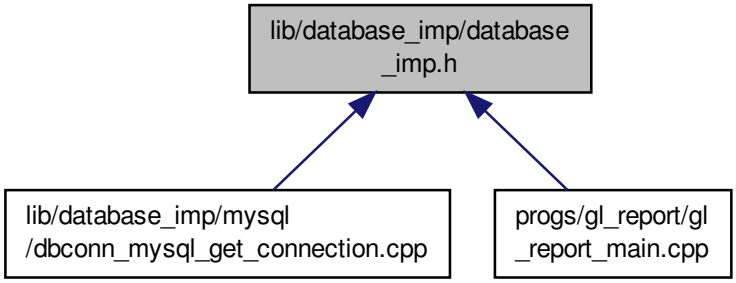
8.16 lib/database_imp/database_imp.h File Reference

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

Include dependency graph for database_imp.h:



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



Namespaces

- namespace gldb

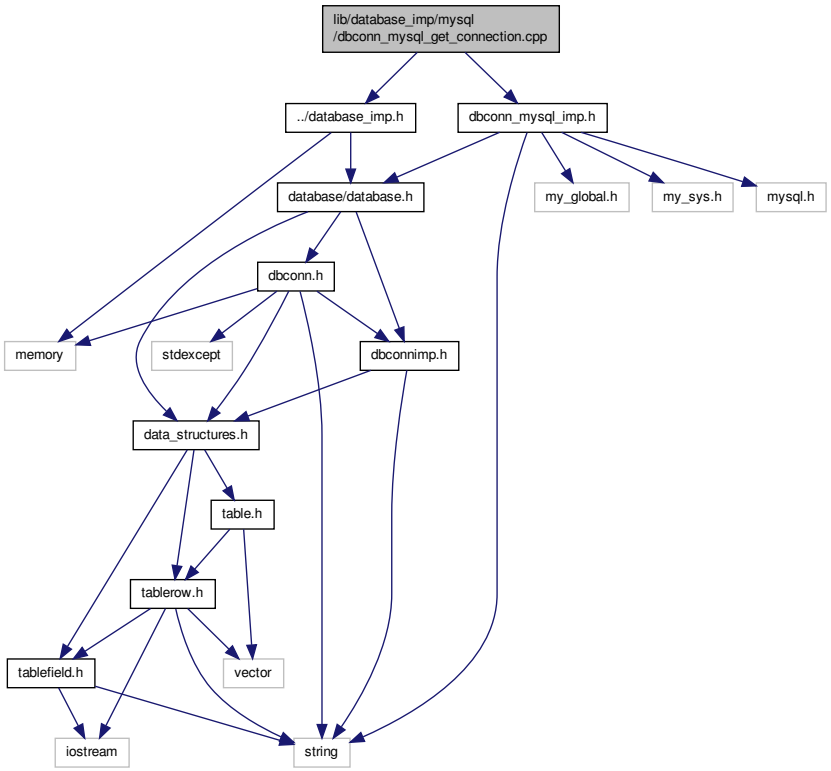
Functions

- DBConnImp * gldb::get_connection (const std::string database, const std::string hostname, const std::string username, const std::string password)

8.17 lib/database_imp/mysql/dbconn_mysql_get_connection.cpp File Reference

```
#include "../database_imp.h"
#include "dbconn_mysql_imp.h"
```

Include dependency graph for dbconn_mysql_get_connection.cpp:

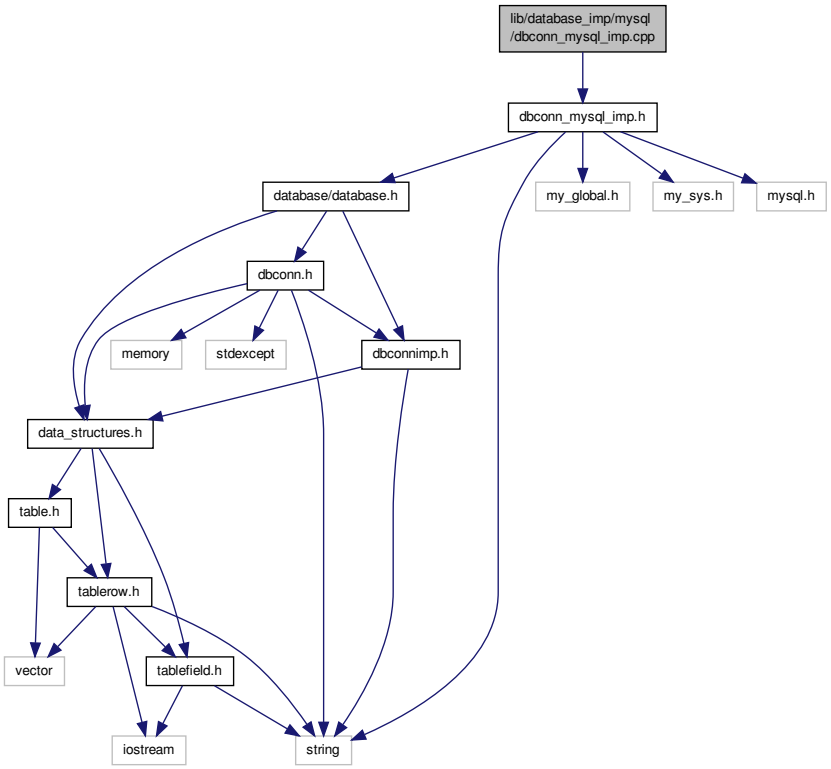


8.18 lib/database_imp/mysql/dbconn_mysql_imp.cpp File Reference

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. Implementation of MySQL database connection implementation class

Author

Paul Griffiths

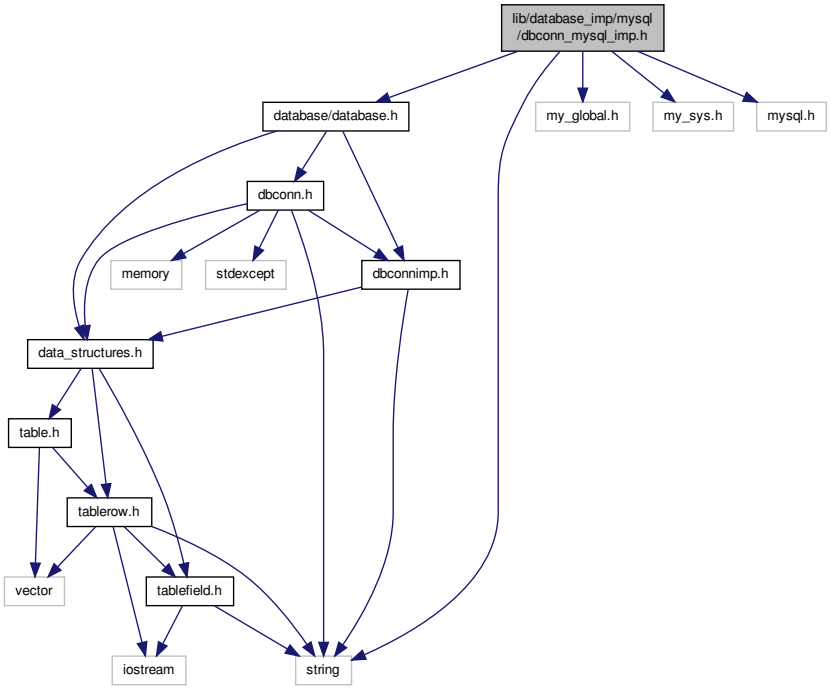
Copyright

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

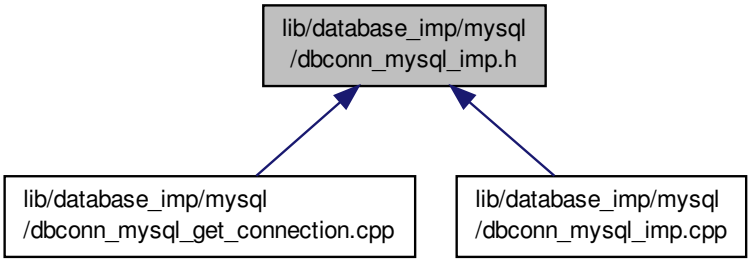
Interface to MySQL database connection implementation class.

```
#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

Namespaces

- namespace gldb

8.19.1 Detailed Description

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

Author

Paul Griffiths

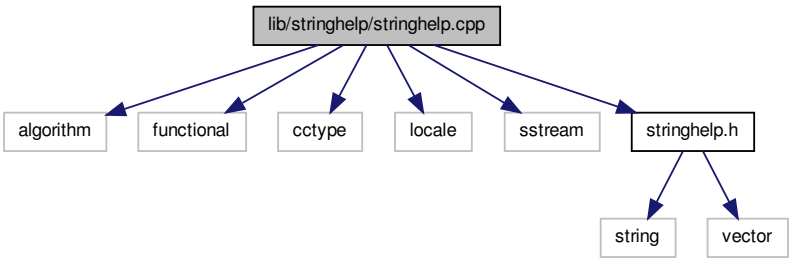
Copyright

8.20 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:



8.20.1 Detailed Description

Implementation of string helper functions.

Author

Paul Griffiths

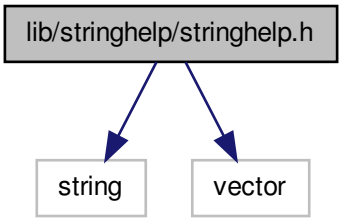
Copyright

8.21 lib/stringhelp/stringhelp.h File Reference

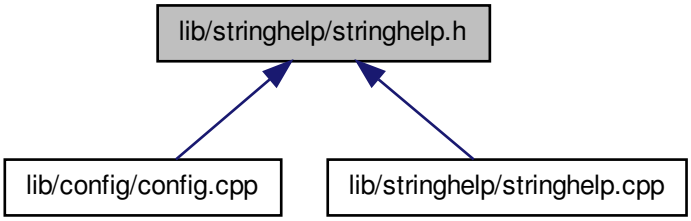
Interface to string helper functions.

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

Include dependency graph for stringhelp.h:



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



Namespaces

- namespace pgstring

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.

8.21.1 Detailed Description

Interface to string helper functions.

Author

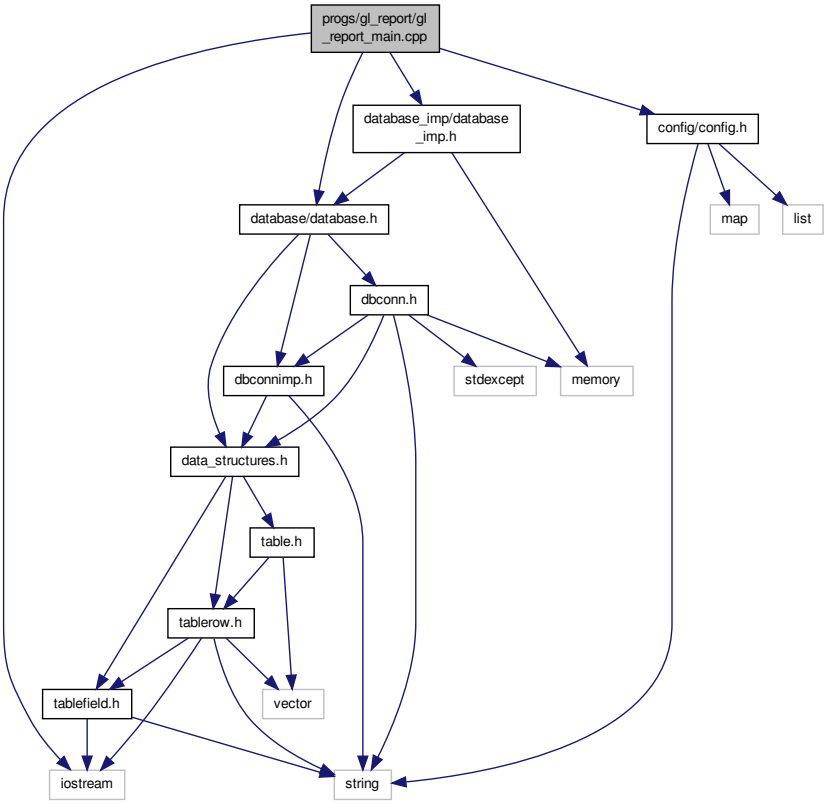
Paul Griffiths

Copyright

8.22 progs/gl_report/gl_report_main.cpp File Reference

```
#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 ()

- static void print_version_message ()
- static void print_help_message ()
- static std::string login (void)
- int main (int argc, char ∗argv[])

Variables

- static const char ∗ progname = "gl_report"

8.22.1 Function Documentation

8.22.1.1 static std::string login (void) [static]

8.22.1.2 int main (int *argc,* char ∗ *argv[]*)

8.22.1.3 static void print_help_message ( ) [static]

8.22.1.4 static void print_usage_message ( ) [static]

8.22.1.5 static void print_version_message ( ) [static]

8.22.1.6 static void set_configuration (genleg::Config & *config,* int *argc,* char ∗ *argv[]*) [static]

8.22.2 Variable Documentation

8.22.2.1 const char∗ progname = ”gl_report” [static]

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