

MySQL with C++

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Sat Mar 2 2013 21:13:50

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Chapter 1

MySQL Connectivity with C++

This is a working code example of using C++ to interface with [MySQL](#). Steps:

- Change database details in [database-detail.h](#) file.
- Download this code
`$ git clone https://github.com/megha55/mysql-with-cpp.git`
- To run example
`$ make`
- For installing [MySQL](#) Connector for C++

`$ make install`

Chapter 2

MySQL with C++

Steps:

1. Change database details in [database-detail.h](#) file.
1. Download this code \$ git clone <https://github.com/megha55/mysql-with-cpp.git>
1. To run example \$ make
1. For installing [MySQL](#) Connector for C++ \$ make install

Chapter 3

Class Index

3.1 Class List

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

MySQL	9
---------------------------------	---

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

database-detail.h	13
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Chapter 5

Class Documentation

5.1 MySQL Class Reference

```
#include <database.h>
```

Public Member Functions

- [MySQL](#) ()
- void [ShowTables](#) ()
- [~MySQL](#) ()

Protected Attributes

- MYSQL * [connect](#)
- MYSQL_RES * [res_set](#)
- MYSQL_ROW [row](#)
- unsigned int [i](#)

5.1.1 Detailed Description

Include [database-detail.h](#) and other files

Class: [MySQL](#)

Description: [MySQL](#) class for database accessibility

Definition at line 32 of file database.h.

5.1.2 Constructor & Destructor Documentation

5.1.2.1 [MySQL::MySQL](#) ()

[MySQL](#) Constructor

Include mysql.h file local header file(declaration of class)

Class: [MySQL](#) Method: [MySQL](#) :: [MySQL](#)()

Description: Constructor to initialize database connectivity

Definition at line 32 of file database.cc.

```
{
    connect = mysql_init(NULL);
    if ( !connect )
    {
        cout << "MySQL Initialization Failed";
    }

    connect = mysql_real_connect(connect, SERVER, USER,
        PASSWORD, DATABASE, 0, NULL, 0);

    if ( connect )
    {
        cout << "Connection Succeeded\n";
    }

    else
    {
        cout << "Connection Failed\n";
    }
}
```

5.1.2.2 MySQL::~~MySQL ()

[MySQL](#) Destructor

Class: [MySQL](#) Method: [MySQL :: ~MySQL\(\)](#) Description: Destructor of [MySQL](#) class for closing mysql

connection

Definition at line 89 of file database.cc.

```
{
    mysql_close (connect);
}
```

5.1.3 Member Function Documentation

5.1.3.1 void MySQL::ShowTables ()

Function to show tables in database

Class: [MySQL](#) Method: [MySQL :: ShowTables\(\)](#)

Description: Show tables in database

Add [MySQL](#) Query

Definition at line 61 of file database.cc.

```
{
    mysql_query (connect, "show tables");

    i = 0;

    res_set = mysql_store_result(connect);

    unsigned int numrows = mysql_num_rows(res_set);

    cout << " Tables in " << DATABASE << " database " << endl;

    while (((row=mysql_fetch_row(res_set)) != NULL))
    {
        cout << row[i] << endl;
    }
}
```

5.1.4 Member Data Documentation

5.1.4.1 MYSQL* MySQL::connect [protected]

[MySQL](#) connectivity Variables

Definition at line 36 of file database.h.

5.1.4.2 unsigned int MySQL::i [protected]

Definition at line 40 of file database.h.

5.1.4.3 MYSQL_RES* MySQL::res_set [protected]

Definition at line 37 of file database.h.

5.1.4.4 MYSQL_ROW MySQL::row [protected]

Definition at line 38 of file database.h.

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

- [database.h](#)
- [database.cc](#)

Chapter 6

File Documentation

6.1 database-detail.h File Reference

Macros

- `#define SERVER "localhost"`
- `#define USER "root"`
- `#define PASSWORD "password"`
- `#define DATABASE "test"`

6.1.1 Macro Definition Documentation

6.1.1.1 `#define DATABASE "test"`

Definition at line 26 of file database-detail.h.

6.1.1.2 `#define PASSWORD "password"`

Definition at line 25 of file database-detail.h.

6.1.1.3 `#define SERVER "localhost"`

define variables for DB Details

Definition at line 23 of file database-detail.h.

6.1.1.4 `#define USER "root"`

Definition at line 24 of file database-detail.h.

6.2 database-main.cpp File Reference

```
#include "database.h"
```

Functions

- int [main](#) (void)

6.2.1 Function Documentation

6.2.1.1 int main (void)

Include required header files

Definition at line 42 of file database-main.cpp.

```
{  
    MySQL Mysql;  
    Mysql.ShowTables();  
  
    return 0;  
}
```

6.3 database.cc File Reference

```
#include "database.h"
```

6.4 database.h File Reference

```
#include "header.h"  
#include "database-detail.h"
```

Classes

- class [MySQL](#)

6.5 header.h File Reference

```
#include <iostream>  
#include <mysql.h>
```

6.6 README.md File Reference

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