# LIBPQ wrapper c++

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# Contents

# Chapter 1

# Class Index

## 1.1 Class List

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

# Chapter 2

# Class Documentation

## 2.1 libpqwrp::libPQwrp Class Reference

gestion parametre sql

`#include <libpqwrp.h>`

### Public Member Functions

- void connectDB (std::string info)

  *connect to the database*
- void qexec (std::string sql)

  *connect to the database*
- void query (std::string sql, bool binary=true)

  *PQexec.*
- char $*$ fetch (int row, int column)

  *PQquery.*
- double fetchDbl (int row, int column)

  *get the value of the row and the column*
- int fetchInt (int row, int column)

  *get the value of the row and the column*
- int nfield (std::string field)

  *get the value of the row and the column*
- const char $*$ cfield (int nfield)

  *number column of the field*
- int countfield ()

  *name of the field*
- int countrow ()

  *number of columns*
- bool is_Table (const char $*$table)

  *number of rows*
- void closeDB ()

  *if exist table of the database*
- void autocommitON ()

  *close to the database*

- void autocommitOFF ()

    *set auotcommit ON*
- void begin ()

    *set auotcommit OFF*
- void commit ()

    *start transction for commit*
- void rollback ()

    *commit for transaction init*
- void end ()

    *rollbck for transaction init*
- void clearRes ()

    *end transaction for init*
- void savpoint ()

    *clear PGresult*
- void savpointRollback ()

    *point de sauvegarde*
- void savpointRelease ()

    *roolback base savepoint*
- void fetchAll (std::string, std::string cursor="mycursor")

    *delete savepoint*
- void opensql (std::string sql, std::string cursor="mycursor")

    *fetch ALL include requete*
- void fetchsql (std::string cursor="mycursor")

    *query for fetchsql record / record*
- void fetchupd (std::string sql)

    *fetch record use openSQL*
- void prepare (std::string const &format)

    *fetch select for update*
- template<typename Head , typename... Args>
  std::string prepare (std::string const &format, Head &&head, Args &&...args)

    *format without parameters causes an error*
- std::stringstream result ()

    *retrieve values on the fields*
- char ∗ DoubleToChar (double _X_, unsigned _precision_=0)

    *out buffer;*

## Public Attributes

- bool errorSQL

    *count the number of parameters in the format*
- bool fetchEOF

    *fatal_error*
- int rows

    *fin de traitenent get reccords*
- int cols

    *initialise par les requetes*
- int rown

    *initialise par les requetes*
- int coln

    *variable de traitement*
- PGresult ∗ res

    *variable de traitement*

## Protected Member Functions

- unsigned count_format_specifiers (std::string const &format)

  *contrôle PGresult*

## Private Attributes

- PGconn ∗ **conn**
- std::stringstream **sqlstream**
- bool **first** = true
- std::string **fin_stage**
- bool **clean**

## Static Private Attributes

- static constexpr char **FORMAT_SPECIFIER** = '?'

## Friends

- std::istream & operator>> (std::istream &is, char ∗t)

  *Double to char.*

### 2.1.1 Detailed Description

gestion parametre sql

$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$ prepare sql formatage avec template variadique etc........ $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

Definition at line 95 of file libpqwrp.h.

### 2.1.2 Member Function Documentation

#### 2.1.2.1 void libpqwrp::libPQwrp::autocommitOFF ( )

set auotcommit ON

set auotcommit OFF

Definition at line 258 of file libpqwrp.cpp.

#### 2.1.2.2 void libpqwrp::libPQwrp::autocommitON ( )

close to the database

set auotcommit ON

Definition at line 252 of file libpqwrp.cpp.

#### 2.1.2.3 void libpqwrp::libPQwrp::begin ( )

set auotcommit OFF

start transction for commit FOR UPDATE LOCK ENRG.

Definition at line 265 of file libpqwrp.cpp.

#### 2.1.2.4 const char ∗ libpqwrp::libPQwrp::cfield ( int *nfield* )

number column of the field

name of the field

Definition at line 198 of file libpqwrp.cpp.

#### 2.1.2.5 void libpqwrp::libPQwrp::clearRes ( )

end transaction for init

clear PGresult

Definition at line 293 of file libpqwrp.cpp.

#### 2.1.2.6 void libpqwrp::libPQwrp::closeDB ( )

if exist table of the database

close to the database

Definition at line 246 of file libpqwrp.cpp.

#### 2.1.2.7 void libpqwrp::libPQwrp::commit ( )

start transction for commit

commit for transaction init

Definition at line 272 of file libpqwrp.cpp.

#### 2.1.2.8 void libpqwrp::libPQwrp::connectDB ( std::string *info* )

connect to the database

init PGconn

init PGresult

Definition at line 74 of file libpqwrp.cpp.

#### 2.1.2.9 unsigned libpqwrp::libPQwrp::count_format_specifiers ( std::string const & *format* ) [protected]

contrôle PGresult

$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$ process $$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

Definition at line 14 of file libpqwrp.cpp.

#### 2.1.2.10 int libpqwrp::libPQwrp::countfield ( )

name of the field

number of columns

Definition at line 210 of file libpqwrp.cpp.

#### 2.1.2.11 int libpqwrp::libPQwrp::countrow ( )

number of columns

number of rows

Definition at line 217 of file libpqwrp.cpp.

#### 2.1.2.12 char ∗ libpqwrp::libPQwrp::DoubleToChar ( double *_X_*, unsigned *_precision_* = 0 )

out buffer;

Double to char.

Definition at line 473 of file libpqwrp.cpp.

#### 2.1.2.13 void libpqwrp::libPQwrp::end ( )

rollbck for transaction init

end transaction for init

Definition at line 286 of file libpqwrp.cpp.

#### 2.1.2.14 char ∗ libpqwrp::libPQwrp::fetch ( int *row*, int *column* )

PQquery.

get the value of the row and the column

Definition at line 146 of file libpqwrp.cpp.

#### 2.1.2.15 void libpqwrp::libPQwrp::fetchAll ( std::string *sql,* std::string *cursor =* "mycursor" )

delete savepoint

fetch ALL include requete

#### ———— process complex

lecture full rc ??? memory

end of row or without row

close cursor

no end of row

Definition at line 326 of file libpqwrp.cpp.

#### 2.1.2.16 void libpqwrp::libPQwrp::fetchsql ( std::string *cursor =* "mycursor" )

query for fetchsql record / record

fetch record use openSQL read a line record only

end of row or without row

close cursor

no end of row

Definition at line 416 of file libpqwrp.cpp.

#### 2.1.2.17 void libpqwrp::libPQwrp::fetchupd ( std::string *sql* )

fetch record use openSQL

query for fetchsql record / record read a line record only for update

end of row or without row

no end of row

Definition at line 442 of file libpqwrp.cpp.

#### 2.1.2.18 bool libpqwrp::libPQwrp::is_Table ( const char ∗ *table* )

number of rows

if exist table of the database false for return value count

Definition at line 223 of file libpqwrp.cpp.

#### 2.1.2.19 int libpqwrp::libPQwrp::nfield ( std::string *field* )

get the value of the row and the column

number column of the field

Definition at line 185 of file libpqwrp.cpp.

#### 2.1.2.20 void libpqwrp::libPQwrp::opensql ( std::string *sql*, std::string *cursor* = "mycursor" )

fetch ALL include requete

query for fetchsql record / record read a line record only

end of row or without row

close cursor

no end of row

Definition at line 374 of file libpqwrp.cpp.

#### 2.1.2.21 template<typename Head , typename... Args> std::string libpqwrp::libPQwrp::prepare ( std::string const & *format*, Head && *head*, Args &&... *args* ) [inline]

format without parameters causes an error

formatting the query with parameters

Definition at line 201 of file libpqwrp.h.

#### 2.1.2.22 void libpqwrp::libPQwrp::qexec ( std::string *sql* )

connect to the database

PQexec.

Definition at line 90 of file libpqwrp.cpp.

#### 2.1.2.23 void libpqwrp::libPQwrp::query ( std::string *sql*, bool *binary* = true )

PQexec.

PQquery. lock for update

Definition at line 105 of file libpqwrp.cpp.

#### 2.1.2.24 void libpqwrp::libPQwrp::rollback ( )

commit for transaction init

rollbck for transaction init

Definition at line 279 of file libpqwrp.cpp.

#### 2.1.2.25 void libpqwrp::libPQwrp::savpoint ( )

clear PGresult

point de sauvegarde

Definition at line 299 of file libpqwrp.cpp.

#### 2.1.2.26 void libpqwrp::libPQwrp::savpointRelease ( )

roolback base savepoint

delete savepoint

Definition at line 313 of file libpqwrp.cpp.

#### 2.1.2.27 void libpqwrp::libPQwrp::savpointRollback ( )

point de sauvegarde

roolback base savepoint

Definition at line 306 of file libpqwrp.cpp.

### 2.1.3 Friends And Related Function Documentation

#### 2.1.3.1 std::istream& operator>> ( std::istream & *is,* char ∗ *t* ) `[friend]`

Double to char.

retrieve char∗ for stringstream dumy

Definition at line 241 of file libpqwrp.h.

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

- src/libpqwrp.h
- src/libpqwrp.cpp

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