LIBPQ wrapper c++

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Chapter 1

Class Index

1.1 Class List

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

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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.
- void fetchAll (std::string, std::string cursor="mycursor")

  PQquery.
- 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
- char ∗ fetch (int row, int column)

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

  delete savepoint
- std::stringstream result ()

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

  out buffer;

Public Attributes

- bool errorSQL

  format without parameters causes an error
- 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
- void prepare (std::string const &format)

  count the number of parameters in the format

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 98 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 319 of file libpqwrp.cpp.

2.1.2.2 void libpqwrp::libPQwrp::autocommitON ( )

close to the database

set auotcommit ON

Definition at line 313 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 326 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 259 of file libpqwrp.cpp.

2.1.2.5 void libpqwrp::libPQwrp::clearRes ( )

end transaction for init

clear PGresult

Definition at line 354 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 307 of file libpqwrp.cpp.

2.1.2.7 void libpqwrp::libPQwrp::commit ( )

start transction for commit

commit for transaction init

Definition at line 333 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 271 of file libpqwrp.cpp.

2.1.2.11 int libpqwrp::libPQwrp::countrow ( )

number of columns

number of rows

Definition at line 278 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 610 of file libpqwrp.cpp.

2.1.2.13 void libpqwrp::libPQwrp::end ( )

rollbck for transaction init

end transaction for init

Definition at line 347 of file libpqwrp.cpp.

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

fetch select for update

get the value of the row and the column

Definition at line 207 of file libpqwrp.cpp.

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

PQquery.

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 387 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 514 of file libpqwrp.cpp.

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

fetch record use openSQL

query for fetchsql record / record select FOR UPDATE NOWAIT

read a line record only for update

end of row or without row

no end of row

Definition at line 565 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 284 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 246 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 451 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]`

delete savepoint

formatting the query with parameters

Definition at line 204 of file libpqwrp.h.

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

connect to the database

PQexec.

Definition at line 89 of file libpqwrp.cpp.

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

PQexec.

PQquery.

Definition at line 145 of file libpqwrp.cpp.

2.1.2.24 void libpqwrp::libPQwrp::rollback ( )

commit for transaction init

rollbck for transaction init

Definition at line 340 of file libpqwrp.cpp.

2.1.2.25 void libpqwrp::libPQwrp::savpoint ( )

clear PGresult

point de sauvegarde

Definition at line 360 of file libpqwrp.cpp.

2.1.2.26 void libpqwrp::libPQwrp::savpointRelease ( )

roolback base savepoint

delete savepoint

Definition at line 374 of file libpqwrp.cpp.

2.1.2.27 void libpqwrp::libPQwrp::savpointRollback ( )

point de sauvegarde

roolback base savepoint

Definition at line 367 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 244 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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