

LIBPQ wrapper c++

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Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

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Chapter 2

Class Index

2.1 Class List

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

libpqsql::inforowcol	13
libpqsql::QueryPrint Gestion parametre sql ex: select	14

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

libpqwrp.hpp	17
--	----

Namespace Documentation

Classes

- gestion parametre sql ex: select*

[illegible]

- bool `is_Table` (PGconn *conn, const char *table)
- void `closeDB` (PGconn *conn)
- void `begin` (PGconn *conn)
- void `commit` (PGconn *conn)
- void `end` (PGconn *conn)
- void `rollback` (PGconn *conn)
- void `savpoint` (PGconn *conn)
- void `savpointRollback` (PGconn *conn)
- void `savpointRelease` (PGconn *conn)
- PGresult * `fetchAll` (PGconn *conn, std::string sql, std::string cursor="mycursor")
- PGresult * `opensql` (PGconn *conn, std::string sql, std::string cursor="mycursor")
- PGresult * `fechsql` (PGconn *conn, std::string cursor="mycursor")

Variables

- static bool `fetch0`
- static bool `update0`
- static bool `select0`
- static bool `delete0`
- static bool `insert0`
- static bool `fetchEOF`
- struct `libpqsql::inforowcol` records

4.1.1 Function Documentation

4.1.1.1 void `libpqsql::begin` (PGconn * *conn*)

full

Definition at line 438 of file `libpqwrp.hpp`.

4.1.1.2 const char* `libpqsql::cfield` (PGresult * *res*, int *nfield*)

name of the field

Definition at line 384 of file `libpqwrp.hpp`.

4.1.1.3 void libpqsql::closeDB (PGconn * *conn*)

close to the database

Definition at line 428 of file libpqwrp.hpp.

4.1.1.4 void libpqsql::commit (PGconn * *conn*)

full

Definition at line 446 of file libpqwrp.hpp.

4.1.1.5 PGconn* libpqsql::connectDB (std::string *info*)

%%

connect to the database

Definition at line 269 of file libpqwrp.hpp.

4.1.1.6 int libpqsql::countfield (PGresult * *res*)

number of columns

Definition at line 397 of file libpqwrp.hpp.

4.1.1.7 int libpqsql::countrow (PGresult * *res*)

number of rows

Definition at line 404 of file libpqwrp.hpp.

4.1.1.8 char* libpqsql::DoubleToChar (double *_X_*, unsigned *_precision_* = 0)

Double to char -----.

Definition at line 102 of file libpqwrp.hpp.

4.1.1.9 void libpqsql::end (PGconn * *conn*)

full

Definition at line 453 of file libpqwrp.hpp.

4.1.1.10 `PGresult* libpqsql::fechsql (PGconn * conn, std::string cursor = "mycursor")`

fetch record use openSQL read a line record only

end of row or without row

close cursor

no end of row

Definition at line 584 of file libpqwrp.hpp.

4.1.1.11 `char* libpqsql::fetch (PGresult * res, int row, int column)`

get the value of the row and the column

Definition at line 329 of file libpqwrp.hpp.

4.1.1.12 `PGresult* libpqsql::fetchAll (PGconn * conn, std::string sql, std::string cursor = "mycursor")`

———— process complex

fetch ALL include requete lecture full records ??? memory

end of row or without row

close cursor

no end of row

Definition at line 495 of file libpqwrp.hpp.

4.1.1.13 `double libpqsql::fetchDbI (PGresult * res, int row, int column)`

get the value of the row and the column

Definition at line 342 of file libpqwrp.hpp.

4.1.1.14 `int libpqsql::fetchInt (PGresult * res, int row, int column)`

get the value of the row and the column

Definition at line 356 of file libpqwrp.hpp.

4.1.1.15 `constexpr unsigned long long int libpqsql::HashStringToInt (const char * str, unsigned long long int hash = 0)`

a function to make your alphanumeric switch

Definition at line 124 of file libpqwrp.hpp.

4.1.1.16 `bool libpqsql::is_Table (PGconn * conn, const char * table)`

if exist table of the database -> false = does not exist false for return value count

Definition at line 411 of file libpqwrp.hpp.

4.1.1.17 `int libpqsql::nfield (PGresult * res, std::string field)`

column of the field

Definition at line 370 of file libpqwrp.hpp.

4.1.1.18 `PGresult* libpqsql::opensql (PGconn * conn, std::string sql, std::string cursor = "mycursor")`

query for fetchsql record / record end of row or without row

close cursor

no end of row

read a line record only

Definition at line 543 of file libpqwrp.hpp.

4.1.1.19 `std::istream& libpqsql::operator>> (std::istream & is, char * t)`

dumy

Definition at line 85 of file libpqwrp.hpp.

4.1.1.20 `bool libpqsql::qexec (PGconn * conn, std::string sql)`

PQexec

Definition at line 284 of file libpqwrp.hpp.

4.1.1.21 `PGresult* libpqsql::query (PGconn * conn, std::string sql, bool binary = true)`

PQquery

Definition at line 301 of file libpqwrp.hpp.

4.1.1.22 `void libpqsql::rollback (PGconn * conn)`

full

Definition at line 460 of file libpqwrp.hpp.

4.1.1.23 void libpqsql::savpoint (PGconn * conn)

point de sauvegarde

Definition at line 467 of file libpqwrp.hpp.

4.1.1.24 void libpqsql::savpointRelease (PGconn * conn)

delete savepoint

Definition at line 481 of file libpqwrp.hpp.

4.1.1.25 void libpqsql::savpointRollback (PGconn * conn)

roolback sur savepoint

Definition at line 474 of file libpqwrp.hpp.

4.1.2 Variable Documentation**4.1.2.1 bool libpqsql::delete0 [static]**

Definition at line 64 of file libpqwrp.hpp.

4.1.2.2 bool libpqsql::fetch0 [static]

fonction sql de libpq

Definition at line 61 of file libpqwrp.hpp.

4.1.2.3 bool libpqsql::fetchEOF [static]

Definition at line 66 of file libpqwrp.hpp.

4.1.2.4 bool libpqsql::insert0 [static]

Definition at line 65 of file libpqwrp.hpp.

4.1.2.5 struct libpqsql::inforowcol libpqsql::records**4.1.2.6 bool libpqsql::select0 [static]**

Definition at line 63 of file libpqwrp.hpp.

4.1.2.7 bool libpqsql::update0 [static]

Definition at line 62 of file libpqwrp.hpp.

Chapter 5

Class Documentation

5.1 libpqsql::inforowcol Struct Reference

```
#include <libpqwrp.hpp>
```

Public Attributes

- int [rows](#)
- int [cols](#)
initialise par les requetes
- int [Xrow](#)
initialise par les requetes
- int [Xcol](#)
variable de traitement

5.1.1 Detailed Description

Definition at line 68 of file libpqwrp.hpp.

5.1.2 Member Data Documentation

5.1.2.1 int libpqsql::inforowcol::cols

initialise par les requetes

Definition at line 71 of file libpqwrp.hpp.

5.1.2.2 int libpqsql::inforowcol::rows

Definition at line 70 of file libpqwrp.hpp.

5.1.2.3 int libpqsql::inforowcol::Xcol

variable de traitement

Definition at line 74 of file libpqwrp.hpp.

5.1.2.4 int libpqsql::inforowcol::Xrow

initialise par les requetes

Definition at line 73 of file libpqwrp.hpp.

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

- [libpqwrp.hpp](#)

5.2 libpqsql::QueryPrint Class Reference

gestion parametre sql ex: select

```
#include <libpqwrp.hpp>
```

Public Member Functions

- template<typename Head , typename... Args>
std::string [prepare](#) (std::string const &format, Head &&head, Args &&...args)
error not parameter query result
- std::stringstream [result](#) (PGresult *res)
formatting the query with parameters

Protected Member Functions

- unsigned [count_format_specifiers](#) (std::string const &format)
- void [prepare](#) (std::string const &format)
count the number of parameters in the format
- void [resultctrl](#) (PGresult *res)
format without parameters causes an error

Private Attributes

- std::stringstream [sql](#)
- bool [first](#) = true
- std::string [fin_stage](#)

Static Private Attributes

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

5.2.1 Detailed Description

gestion parametre sql ex: select

prepare sql for-
matage avec template variadique #####

Definition at line 136 of file libpqwrp.hpp.

5.2.2 Member Function Documentation

5.2.2.1 unsigned libpqsql::QueryPrint::count_format_specifiers (std::string const & *format*) [protected]

Definition at line 163 of file libpqwrp.hpp.

5.2.2.2 void libpqsql::QueryPrint::prepare (std::string const & *format*) [protected]

count the number of parameters in the format

Definition at line 182 of file libpqwrp.hpp.

```
5.2.2.3 template<typename Head , typename... Args> std::string libpqsql::QueryPrint::prepare ( std::string const & format,
Head && head, Args &&... args )
```

error not parameter query result

returns to initial position

Definition at line 191 of file libpqwrp.hpp.

5.2.2.4 std::stringstream libpqsql::QueryPrint::result (PGresult * res)

formatting the query with parameters

Definition at line 222 of file libpqwrp.hpp.

5.2.2.5 void libpqsql::QueryPrint::resultctrl (PGresult * res) [protected]

format without parameters causes an error

5.2.3 Member Data Documentation

5.2.3.1 `std::string libpqsql::QueryPrint::fin_stage` `[private]`

Definition at line 143 of file libpqwrp.hpp.

5.2.3.2 `bool libpqsql::QueryPrint::first = true` `[private]`

Definition at line 142 of file libpqwrp.hpp.

5.2.3.3 `constexpr char libpqsql::QueryPrint::FORMAT_SPECIFIER = '?'` `[static], [private]`

Definition at line 139 of file libpqwrp.hpp.

5.2.3.4 `std::stringstream libpqsql::QueryPrint::sql` `[private]`

Definition at line 141 of file libpqwrp.hpp.

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

- [libpqwrp.hpp](#)

Chapter 6

File Documentation

6.1 libpqwrp.hpp File Reference

```
#include <iostream>
#include <ostream>
#include <iomanip>
#include <sstream>
#include <stdexcept>
#include <string>
#include <libpq-fe.h>
#include <cstdlib>
```

Classes

- struct [libpqsql::inforowcol](#)
- class [libpqsql::QueryPrint](#)
gestion parametre sql ex: select

Namespaces

- [libpqsql](#)

Macros

- #define [DeLiMiTaTiON](#) '~'
- #define [NAMEOF](#)(variable) ((void)variable, #variable)

Variables

- static bool [libpqsql::fetch0](#)
- static bool [libpqsql::update0](#)
- static bool [libpqsql::select0](#)
- static bool [libpqsql::delete0](#)
- static bool [libpqsql::insert0](#)
- static bool [libpqsql::fetchEOF](#)
- struct [libpqsql::inforowcol](#) [libpqsql::records](#)

6.1.1 Macro Definition Documentation

6.1.1.1 `#define DeLiMiTaTioN '~'`

Definition at line 52 of file libpqwrp.hpp.

6.1.1.2 `#define NAMEOF(variable) ((void)variable, #variable)`

Definition at line 130 of file libpqwrp.hpp.

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