LIBPQ wrapper c++

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Contents

1 Namespace Index **1**

1.1 Namespace List 1

2 Class Index **3**

2.1 Class List 3

3 File Index **5**

3.1 File List 5

4 Namespace Documentation **7**

4.1 libpqsql Namespace Reference 7

4.1.1 Function Documentation 8

4.1.1.1 begin(PGconn ∗conn) 8

4.1.1.2 cfield(PGresult ∗res, int nfield) 8

4.1.1.3 closeDB(PGconn ∗conn) 9

4.1.1.4 commit(PGconn ∗conn) 9

4.1.1.5 connectDB(std::string info) 9

4.1.1.6 countfield(PGresult ∗res) 9

4.1.1.7 countrow(PGresult ∗res) 9

4.1.1.8 DoubleToChar(double _X_, unsigned _precision_=0) 9

4.1.1.9 end(PGconn ∗conn) 9

4.1.1.10 fechsql(PGconn ∗conn, std::string cursor=""mycursor"") 10

4.1.1.11 fetch(PGresult ∗res, int row, int column) 10

4.1.1.12 fetchAll(PGconn ∗conn, std::string sql, std::string cursor=""mycursor"") 10

4.1.1.13 fetchDbl(PGresult ∗res, int row, int column) 10

4.1.1.14 fetchInt(PGresult *res, int row, int column) . . . 10
4.1.1.15 HashStringToInt(const char *str, unsigned long long int hash=0) . . . 10
4.1.1.16 is_Table(PGconn *conn, const char *table) . . . 11
4.1.1.17 nfield(PGresult *res, std::string field) . . . 11
4.1.1.18 opensql(PGconn *conn, std::string sql, std::string cursor=""mycursor"") . . . 11
4.1.1.19 operator>>(std::istream &is, char *t) . . . 11
4.1.1.20 qexec(PGconn *conn, std::string sql) . . . 11
4.1.1.21 query(PGconn *conn, std::string sql, bool binary=true) . . . 11
4.1.1.22 rollback(PGconn *conn) . . . 11
4.1.1.23 savpoint(PGconn *conn) . . . 12
4.1.1.24 savpointRelease(PGconn *conn) . . . 12
4.1.1.25 savpointRollback(PGconn *conn) . . . 12
4.1.2 Variable Documentation . . . 12
4.1.2.1 delete0 . . . 12
4.1.2.2 fetch0 . . . 12
4.1.2.3 fetchEOF . . . 12
4.1.2.4 insert0 . . . 12
4.1.2.5 records . . . 12
4.1.2.6 select0 . . . 12
4.1.2.7 update0 . . . 12

5 Class Documentation **13**

5.1 libpqsql::inforowcol Struct Reference . . . 13
5.1.1 Detailed Description . . . 13
5.1.2 Member Data Documentation . . . 13
5.1.2.1 cols . . . 13
5.1.2.2 rows . . . 13
5.1.2.3 Xcol . . . 14
5.1.2.4 Xrow . . . 14
5.2 libpqsql::QueryPrint Class Reference . . . 14
5.2.1 Detailed Description . . . 15
5.2.2 Member Function Documentation . . . 15
5.2.2.1 count_format_specifiers(std::string const &format) . . . 15
5.2.2.2 prepare(std::string const &format) . . . 15
5.2.2.3 prepare(std::string const &format, Head &&head, Args &&...args) . . . 15
5.2.2.4 result(PGresult *res) . . . 15
5.2.2.5 resultctrl(PGresult *res) . . . 15
5.2.3 Member Data Documentation . . . 16
5.2.3.1 fin_stage . . . 16
5.2.3.2 first . . . 16
5.2.3.3 FORMAT_SPECIFIER . . . 16
5.2.3.4 sql . . . 16

6 File Documentation **17**

6.1 libpqwrp.hpp File Reference 17

6.1.1 Macro Definition Documentation 19

6.1.1.1 DeLiMiTaTioN 19

6.1.1.2 NAMEOF 19

Index **21**

Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all namespaces with brief descriptions:

libpqsql 7

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

Chapter 4

Namespace Documentation

4.1 libpqsql Namespace Reference

Classes

- struct inforowcol
- class QueryPrint

  gestion parametre sql ex: select

Functions

- std::istream & operator>> (std::istream &is, char *t)
- char * DoubleToChar (double _X_, unsigned _precision_=0)

  Double to char ----------—.
- constexpr unsigned long long int HashStringToInt (const char *str, unsigned long long int hash=0)

  a function to make your alphanumeric switch
- PGconn * connectDB (std::string info)

  *$$$

- 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 435 of file libpqwrp.hpp.

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

name of the field

Definition at line 381 of file libpqwrp.hpp.

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

close to the database

Definition at line 425 of file libpqwrp.hpp.

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

full

Definition at line 443 of file libpqwrp.hpp.

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

$$$

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 581 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 326 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 492 of file libpqwrp.hpp.

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

get the value of the row and the column

Definition at line 339 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 353 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 121 of file libpqwrp.hpp.

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

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

Definition at line 408 of file libpqwrp.hpp.

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

column of the field

Definition at line 367 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 540 of file libpqwrp.hpp.

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

dumy

Definition at line 82 of file libpqwrp.hpp.

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

PQexec

Definition at line 281 of file libpqwrp.hpp.

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

PQquery

Definition at line 298 of file libpqwrp.hpp.

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

full

Definition at line 457 of file libpqwrp.hpp.

4.1.1.23 void libpqsql::savpoint (PGconn * *conn*)

point de sauvegarde

Definition at line 464 of file libpqwrp.hpp.

4.1.1.24 void libpqsql::savpointRelease (PGconn * *conn*)

delete savepoint

Definition at line 478 of file libpqwrp.hpp.

4.1.1.25 void libpqsql::savpointRollback (PGconn * *conn*)

roolback sur savepoint

Definition at line 471 of file libpqwrp.hpp.

4.1.2 Variable Documentation

4.1.2.1 bool libpqsql::delete0 [static]

Definition at line 61 of file libpqwrp.hpp.

4.1.2.2 bool libpqsql::fetch0 [static]

$$$

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 65 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 68 of file libpqwrp.hpp.

5.1.2.2 int libpqsql::inforowcol::rows

Definition at line 67 of file libpqwrp.hpp.

5.1.2.3 int libpqsql::inforowcol::Xcol

variable de traitement

Definition at line 71 of file libpqwrp.hpp.

5.1.2.4 int libpqsql::inforowcol::Xrow

initialise par les requetes

Definition at line 70 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

$$$

5.2.3 Member Data Documentation

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

Definition at line 140 of file libpqwrp.hpp.

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

Definition at line 139 of file libpqwrp.hpp.

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

Definition at line 136 of file libpqwrp.hpp.

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

Definition at line 138 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)

Functions

- std::istream & libpqsql::operator>> (std::istream &is, char *t)
- char * libpqsql::DoubleToChar (double _X_, unsigned _precision_=0)

  Double to char ----------.
- constexpr unsigned long long int libpqsql::HashStringToInt (const char *str, unsigned long long int hash=0)

  a function to make your alphanumeric switch
- PGconn * libpqsql::connectDB (std::string info)

  *$$$

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 49 of file libpqwrp.hpp.

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

Definition at line 127 of file libpqwrp.hpp.

Index

begin
    libpqsql, 8

cfield
    libpqsql, 8
closeDB
    libpqsql, 8
cols
    libpqsql::inforowcol, 13
commit
    libpqsql, 9
connectDB
    libpqsql, 9
count_format_specifiers
    libpqsql::QueryPrint, 15
countfield
    libpqsql, 9
countrow
    libpqsql, 9

DeLiMiTaTioN
    libpqwrp.hpp, 19
delete0
    libpqsql, 12
DoubleToChar
    libpqsql, 9

end
    libpqsql, 9

FORMAT_SPECIFIER
    libpqsql::QueryPrint, 16
fechsql
    libpqsql, 9
fetch
    libpqsql, 10
fetch0
    libpqsql, 12
fetchAll
    libpqsql, 10
fetchDbl
    libpqsql, 10
fetchEOF
    libpqsql, 12
fetchInt
    libpqsql, 10
fin_stage
    libpqsql::QueryPrint, 16
first
    libpqsql::QueryPrint, 16

HashStringToInt
    libpqsql, 10

insert0
    libpqsql, 12
is_Table
    libpqsql, 10

libpqsql, 7
    begin, 8
    cfield, 8
    closeDB, 8
    commit, 9
    connectDB, 9
    countfield, 9
    countrow, 9
    delete0, 12
    DoubleToChar, 9
    end, 9
    fechsql, 9
    fetch, 10
    fetch0, 12
    fetchAll, 10
    fetchDbl, 10
    fetchEOF, 12
    fetchInt, 10
    HashStringToInt, 10
    insert0, 12
    is_Table, 10
    nfield, 11
    opensql, 11
    operator>>, 11
    qexec, 11
    query, 11
    records, 12
    rollback, 11
    savpoint, 11
    savpointRelease, 12
    savpointRollback, 12
    select0, 12
    update0, 12
libpqsql::QueryPrint, 14
    count_format_specifiers, 15
    FORMAT_SPECIFIER, 16
    fin_stage, 16
    first, 16
    prepare, 15
    result, 15
    resultctrl, 15
    sql, 16

libpqsql::inforowcol, 13
cols, 13
rows, 13
Xcol, 13
Xrow, 14
libpqwrp.hpp, 17
DeLiMiTaTioN, 19
NAMEOF, 19

NAMEOF
libpqwrp.hpp, 19
nfield
libpqsql, 11

opensql
libpqsql, 11
operator>>
libpqsql, 11

prepare
libpqsql::QueryPrint, 15

qexec
libpqsql, 11
query
libpqsql, 11

records
libpqsql, 12
result
libpqsql::QueryPrint, 15
resultctrl
libpqsql::QueryPrint, 15
rollback
libpqsql, 11
rows
libpqsql::inforowcol, 13

savpoint
libpqsql, 11
savpointRelease
libpqsql, 12
savpointRollback
libpqsql, 12
select0
libpqsql, 12
sql
libpqsql::QueryPrint, 16

update0
libpqsql, 12

Xcol
libpqsql::inforowcol, 13
Xrow
libpqsql::inforowcol, 14