$mysql_connector_c++_V1.0.1$

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增删改查基础

普通查询

```
#include <string>
#include <mysql_driver.h>
#include <cppconn/driver.h>
#include <cppconn/statement.h>
#include <cppconn/metadata.h>
#include <cppconn/exception.h>
int main(int argc, char** argv)
  sql::Driver *driver = nullptr;
  try
  {
      driver = sql::mysql::get_driver_instance();
     std::unique_ptr<sql::Connection> conn;
     conn.reset(driver->connect("tcp://172.17.0.2:3306", "root", "test"));
     conn->setSchema("test");
     std::unique_ptr<sql::Statement> stmt;
     stmt.reset(conn->createStatement());
     std::unique_ptr<sql::ResultSet> rs;
     rs.reset(stmt->executeQuery("select * from user"));
     while(rs->next())
       int id = rs->getInt("userid");
       std::string name = rs->getString("username");
       std::cout << id << " : " << name << std::endl;
       }
  catch(sql::SQLException & e)
     std::cout << "exception:" << e.what() << std::endl;</pre>
  catch(...)
```

```
std::cout << "exception:" << "unknown" << std::endl;
}
return 0;
}</pre>
```

已准备的查询

```
sql::Driver *driver = nullptr;
try
{
        driver = sql::mysql::get_driver_instance();
    std::unique_ptr<sql::Connection> conn;
    conn.reset(driver->connect("tcp://172.17.0.2:3306", "root", "test"));
    conn->setSchema("test");
    std::unique_ptr<sql::PreparedStatement> stmt;
    const char* sql = "select userid, username, userpass from user"
            " where userid < ? "</pre>
            " and username = ? ";
    stmt.reset(conn->prepareStatement(sql));
    stmt->setInt(1, 10);
    stmt->setString(2, "tom");
    std::unique_ptr<sql::ResultSet> rs;
    rs.reset(stmt->executeQuery());
    while(rs->next())
        int id = rs->getInt("userid");
        std::string name = rs->getString("username");
        std::cout << id << " : " << name << std::endl;
catch(sql::SQLException & e)
    std::cout << "exception:" << e.what() << std::endl;</pre>
}
catch(...)
{
   std::cout << "exception:" << "unknown" << std::endl;</pre>
}
```

更新记录

```
sql::Driver *driver = nullptr;
```

```
try
{
    driver = sql::mysql::get_driver_instance();
  std::unique_ptr<sql::Connection> conn;
  conn.reset(driver->connect("tcp://172.17.0.2:3306", "root", "test"));
  conn->setSchema("test");
  std::unique_ptr<sql::PreparedStatement> stmt;
  const char* sql = "insert into user "
       " (username, userpass) values "
       " (?, md5(?))";
  stmt.reset(conn->prepareStatement(sql));
  stmt->setString(1, "zhangsan");
  stmt->setString(2, "zhangsantest");
  std::unique_ptr<sql::ResultSet> rs;
  int count = stmt->executeUpdate();
  std::cout << "execute update:" << count << std::endl;</pre>
}
catch(sql::SQLException & e)
  std::cout << "exception:" << e.what() << std::endl;</pre>
}
catch(...)
{
 std::cout << "exception:" << "unknown" << std::endl;</pre>
```

事务处理

```
stmt.reset(conn->prepareStatement(sql));
  stmt->setString(1, "zhangsan");
  stmt->setString(2, "zhangsantest");
  int count = stmt->executeUpdate();
  std::cout << "execute update:" << count << std::endl;</pre>
  sql = "insert into user "
            " (username, userpass) values "
            " (?, md5(?))";
  stmt.reset(conn->prepareStatement(sql));
  stmt->setString(1, "lisi");
  stmt->setString(2, "lisitest");
  count = stmt->executeUpdate();
  std::cout << "execute update:" << count << std::endl;</pre>
  conn->commit();
catch(sql::SQLException & e)
  std::cout << "exception:" << e.what() << std::endl;</pre>
  conn->rollback();
}
catch(...)
 std::cout << "exception:" << "unknown" << std::endl;</pre>
```

备注:

(a)在设置了 autoCommit 为 false 之后,如果不显式提交事务,则在断开连接时会自动回滚。