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Subject: Sqlite3 ChangePassword() failed.  
Posted by [zouqi](#) on Mon, 19 Jun 2023 11:35:43 GMT  
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Helo

when I test the sqlite3 at reference/SQL\_sqlite3, I found a question about ChangePassword() function.

Step 1: Use sqlite3.Open(file, "password") create an encrypted db file.

Step 2: Use sqlite3.ChangePassword("password\_changed") change the file's password.

Step 3: Use sqlite3.Open(file, "password\_changed") to open the db again.

The problem occurred in th third step, when I opened the db file with changed password, that failed about "ERROR file is not a database(26)".

I am not familiar with encryption. Can anyone test and answer this question?

Thanks.

1. create a encrypted file.

2. change password

3. use newpassword open failed.

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## File Attachments

1) [sqlite\\_1.jpg](#), downloaded 593 times

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## SQL\_Sqlite3

Core

Sql

plugin/sqlite3

plugin/z

&lt;prj-aux&gt;

&lt;ide-aux&gt;

&lt;temp-aux&gt;

&lt;meta&gt;

# simple.h

simple.cpp

simple.sch

simple.cpp

```
OK 7  #include <Sql/sch_source.h>
    8
    9  CONSOLE_APP_MAIN
   10  {
   11      StdLogSetup(LOG_COUT | LOG
   12
   13      LOG("-- Starting new run
   14
   15      Sqlite3Session sqlite3;
   16      sqlite3.LogErrors(true);
   17      if(!sqlite3.Open(ConfigF
   18          LOG("Can't create or
   19          return;
   20      }
   21
   22      //sqlite3.ChangePassword
   23
   24      SQL = sqlite3;
   25
   26      // Update the schema to
   27      #ifdef _DEBUG
   28          SqlSchema sch(SQLITE3);
   29          All_Tables(sch);
   30          if(sch.ScriptChanged(Sql
   31              SqlPerformScript(sch
   32          if(sch.ScriptChanged(Sql
   33              SqlPerformScript(sch
   34      }
   35      if(sch.ScriptChanged(Sql
```

2) [sqlite\\_2.jpg](#), downloaded 573 times



**SQL\_Sqlite3**

- Core
- Sql
- plugin/sqlite3
- plugin/z
- <prj-aux>
- <ide-aux>
- <temp-aux>
- <meta>

- # simple.h
- simple.cpp
- simple.sch

```

simple.cpp
7  #include <Sql/sch_source.h>
8
9  CONSOLE_APP_MAIN
10 {
11     StdLogSetup (LOG_COUT | LOG
12
13     LOG ("-- Starting new run
14
15     Sqlite3Session sqlite3;
16     sqlite3.LogErrors (true);
17     if (!sqlite3.Open (ConfigF
18         LOG ("Can't create or
19         return;
20     }
21
22     sqlite3.ChangePassword ("
23
24     SQL = sqlite3;
25
26     // Update the schema to
27     #ifdef DEBUG
28         SqlSchema sch (SQLITE3);
29         All Tables (sch);
    
```

Autos	Locals	this	Watches	CPU	Memory
	sqlite3		{ see=1, encrypted=1, db=249553b		

3) [sqlite\\_3.jpg](#), downloaded 605 times



D:\root5\upp-win-16861\upp\

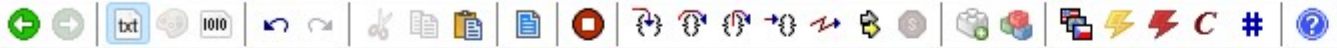


```
-- Starting new run of Sqlite3 simple test  
ERROR file is not a database(26):
```



SQL\_Sqlite3 - D:\root5\upp-win-16861\upp\reference\SQL\_Sqlite3\simple.cpp U

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SQL\_Sqlite3

Core

Sql

plugin/sqlite3

plugin/z

<prj-aux>

<ide-aux>

<temp-aux>

<meta>

# simple.h

simple.cpp

simple.sch

simple.cpp

```
OK 7 #include <Sql/sch_sour  
8  
9  CONSOLE_APP_MAIN  
10 {  
11     StdLogSetup(LOG_CO  
12  
13     LOG("-- Starting n  
14  
15     Sqlite3Session sql  
16     sqlite3.LogErrors(  
17     if(!sqlite3.Open(C  
18     LOG("Can't cre  
19     return;  
20 }  
21  
22     sqlite3.ChangePass  
23  
24     SQL = sqlite3;  
25  
26     // Update the sche  
27 #ifdef _DEBUG  
28     SqlSchema sch(SQLI  
29     All Tables(sch);
```

Autos

Locals

this

Watches

CPU

Subject: Re: Sqlite3 ChangePassword() failed.  
Posted by [coolman](#) on Mon, 19 Jun 2023 13:35:04 GMT  
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Hi,

From the comment in the int Sqlite3Session::SetDBEncryption(int cipher)

```
// "default:cipher" => use SQLCipher during the entire lifetime of database instance
// CIPHER_CHAHA2020_SQLEET settings are backward compatible with the previous sqleet
implementation in the U++
// Note: It is not recommended to use legacy mode for encrypting new databases. It is supported
for compatibility
// reasons only, so that databases that were encrypted in legacy mode can be accessed.
```

So, if you will use cipher Upp::Sqlite3Session::CIPHER\_CHAHA2020\_DEFAULT, there is no problem (legacy is not set).

```
if(!sqlite3.Open(ConfigFile("simple.db"), "test",
Upp::Sqlite3Session::CIPHER_CHAHA2020_DEFAULT)) {
...

```

```
sqlite3.ChangePassword("test_new", Upp::Sqlite3Session::CIPHER_CHAHA2020_DEFAULT);
```

BR, Radek

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Subject: Re: Sqlite3 ChangePassword() failed.  
Posted by [zouqj](#) on Mon, 19 Jun 2023 23:01:09 GMT  
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Thinks a lot!

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