

SASbyODBC

一、数据库准备

过程略。已备：

Type	Host	Port	User	Password	Database
Oracle 11g	123.456.789.000	49161	system	oracle	sid:xe
Mysql	123.456.789.000	3306	root	123456	x
IBM db2	123.456.789.000	50000	db2inst1	db2inst1-pwd	sample

// Host 已加密，需注意各数据库版本

二、连接测试

(1) telnet测试

若windows，可通过控制面板-程序-打开或关闭windows功能来安装telnet。

```
# telnet 123.456.789.000 49161
Trying 123.456.789.000...
Connected to 123.456.789.000.
Escape character is '^]'.
^]
telnet> quit
Connection closed.
```

```
# telnet 123.456.789.000 3306
Trying 123.456.789.000...
Connected to 123.456.789.000.
Escape character is '^]'.
J
8.0.12 &I~o?ji0*Wj
                                caching_sha2_password
^]
telnet> quit
Connection closed.
```

```
# telnet 123.456.789.000 50000
Trying 123.456.789.000...
Connected to 123.456.789.000.
Escape character is '^]'.
^]
telnet> quit
Connection closed.
```

上述即可通。

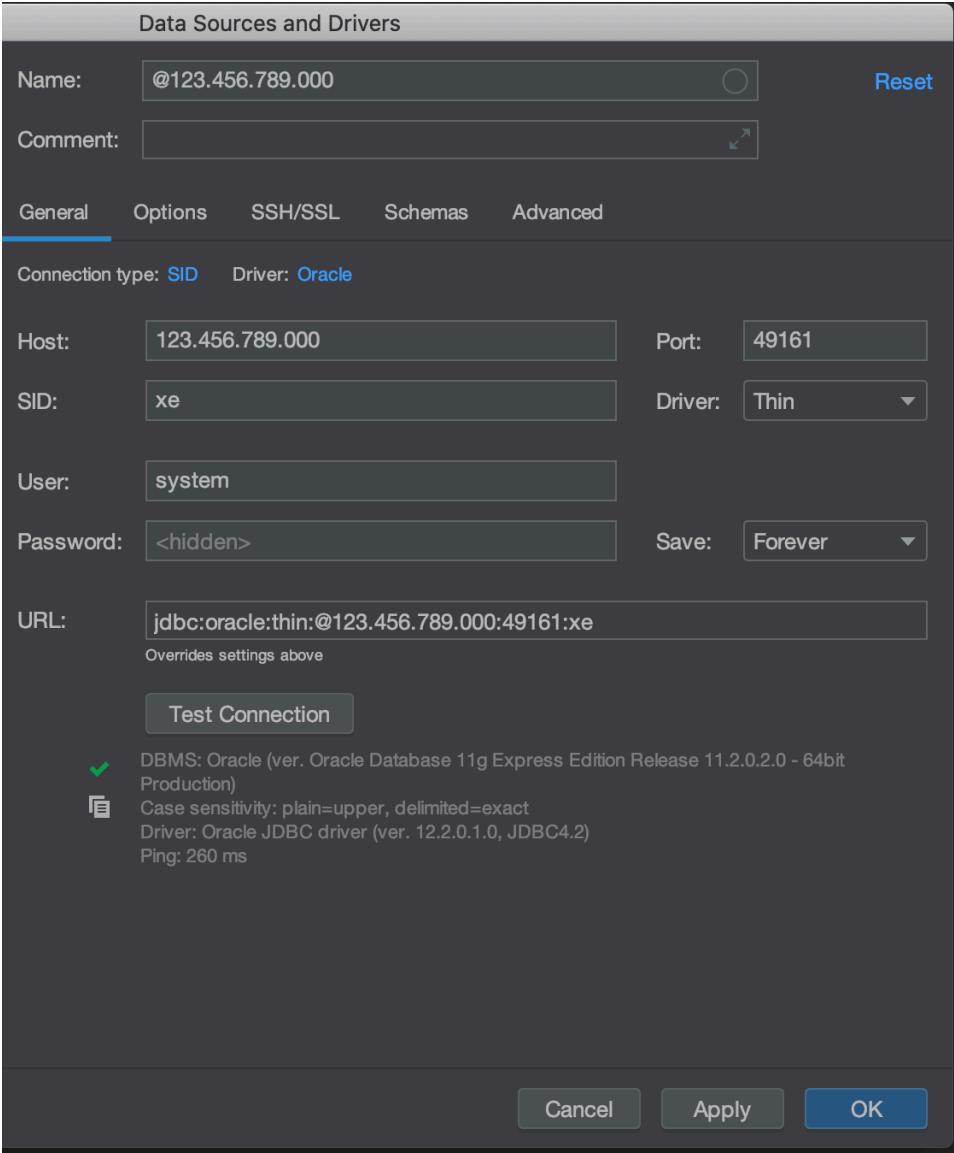
若经过漫长等待后，出现以下情况，请先检查连接情况。

```
# telnet 123.456.789.000 1234
Trying 123.456.789.000...
telnet: connect to address 123.456.789.000: Operation timed out
telnet: Unable to connect to remote host
```

(2) 客户端测试

各种数据库客户端都可以，以下推荐**DataGrip**,可通过jdbc连接，轻松简单。

配置并测试，如下：



Data Sources and Drivers

Name:

x@123.456.789.000

Comment:

General

Options

SSH/SSL

Schemas

Advanced

Connection type: default

Driver: MySQL for 5.1

Host:

123.456.789.000

Port:

3306

User:

root

Password:

<hidden>

Save:

Forever

Database:

x

URL:

jdbc:mysql://123.456.789.000:3306/x

Overrides settings above

Test Connection

✓

DBMS: MySQL (ver. 8.0.12)

Case sensitivity: plain=exact, delimited=exact

Driver: MySQL Connector Java (ver. mysql-connector-java-5.1.46 (Revision: 9cc87a48e75c2d2e87c1a293b2862ce651cb256e), JDBC4.0)

Ping: 333 ms

SSL: yes

⚠ Update to driver ver. 5.1.47

Cancel

Apply

OK

Data Sources and Drivers

Name: [Reset](#)

Comment:

General Options SSH/SSL Schemas Advanced

Connection type: **Type 4** Driver: **IBM Db2**

Host: Port:

User:

Password: Save: **Forever**

Database:

URL:
Overrides settings above

[Test Connection](#)

✓ DBMS: DB2/LINUX8664 (ver. SQL10055)
Case sensitivity: plain=upper, delimited=exact
Driver: IBM Data Server Driver for JDBC and SQLJ (ver. 4.23.42, JDBC4.1)
Effective version: IBM Db2 LUW (ver. 10.5.5)
Ping: 256 ms

[Cancel](#) [Apply](#) [OK](#)

均测试通过Test Connection，并可查看存在表。

Database

+

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■


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🖋


📄


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▼  @123.456.789.000 2 of 13


▶  PUBLIC


▼  SYSTEM


▼  tables 155


▶  AQ\$_INTERNET_AGENT_PRIVS


▶  AQ\$_INTERNET_AGENTS

▶  AQ\$_QUEUE_TABLES

▶  AQ\$_QUEUES

▶  AQ\$_SCHEDULES

▶  CLASSINFO

▶  DEF\$_AQCALL

SYSTEM.CLASSINFO [@123.456.789.000] ✕

⏪

⏴

2 rows ▼

⏵

⏩


🔄

+


−

Tx: Ma

🔍 <Filter criteria>

 CLASSID

⌵

 CLASSNAME

⌵

1

1

ivan

2

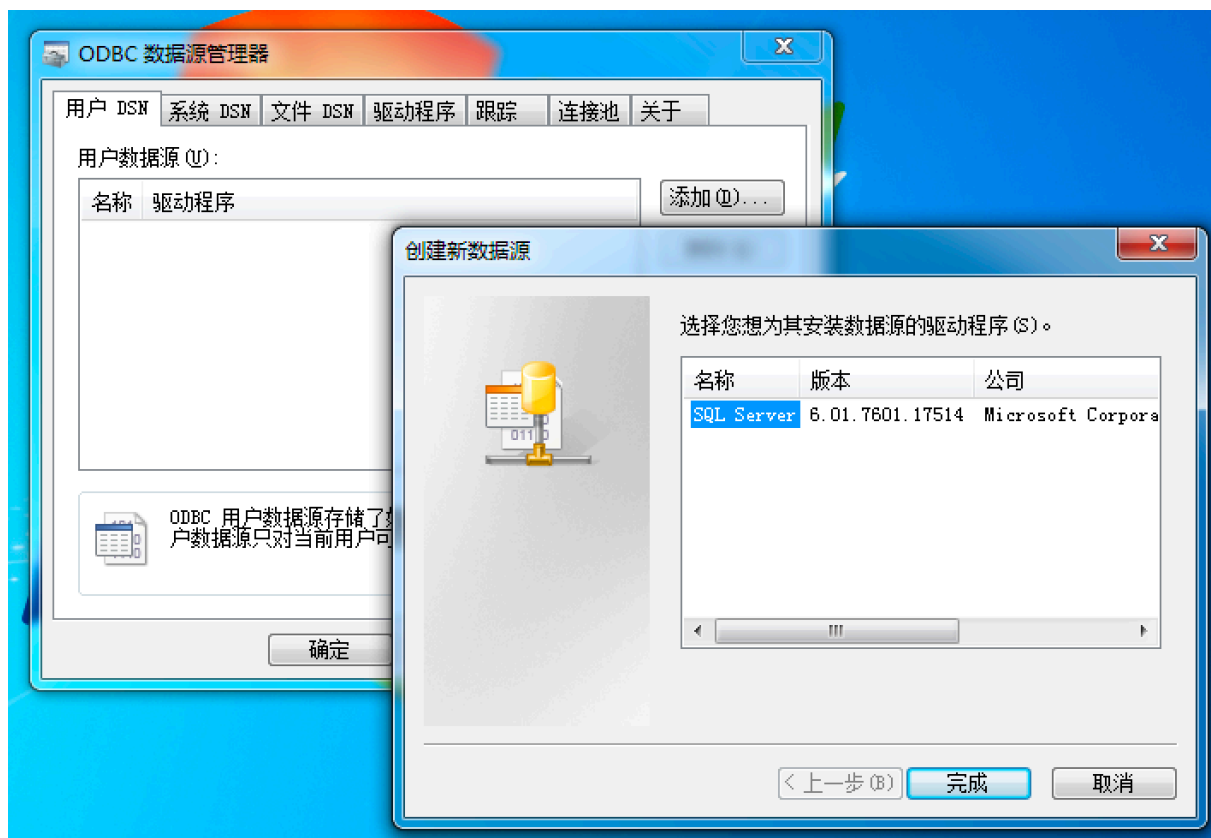
2

你好

三、ODBC驱动

以下测试机型：win7 64bit 2GB*

一般来说，打开ODBC 数据源管理器的用户DSN添加，如下：



添加ODBC驱动，以实现在此出现新驱动。

(1) Oracle 11g

根据以下链接，注意版本和位数。

官方下载链接

<https://www.oracle.com/technetwork/cn/topics/winia64soft-083954-zhs.html>

辅助下载链接

<https://ivan-bucket-out-001.oss-cn-beijing.aliyuncs.com/out/instantclient-basic-windows.x64-12.2.0.1.0.zip>

<https://ivan-bucket-out-001.oss-cn-beijing.aliyuncs.com/out/instantclient-odbc-windows.x64-12.2.0.1.0-2.zip>

各自解压到对应文件，如C:\App，可以看到文件路径如下：

```
C:\App\instantclient-basic-windows.x64-12.2.0.1.0\instantclient_12_2
C:\App\instantclient-odbc-windows.x64-12.2.0.1.0-2\instantclient_12_2
```

合并到instantclient_12_2，即odbc里面的文件全部放入basic文件中，通过cmd查看路径。

Microsoft Windows [版本 6.1.7601]

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```
# C:\Windows\system32>dir C:\App\instantclient_12_2
```

```
2019/11/13  18:33    <DIR>          .
2019/11/13  18:33    <DIR>          ..
2017/03/08  07:34                19,968 adrci.exe
2017/03/08  07:34                23,264 adrci.sym
2017/03/08  07:35                 512 BASIC_README
```

2017/03/08	07:34		55,808	genezi.exe
2017/03/08	07:34		56,264	genezi.sym
2019/11/13	18:33	<DIR>		help
2017/03/08	07:27		778,752	oci.dll
2017/03/08	07:27		731,816	oci.sym
2016/12/15	01:56		152,576	ocijdbc12.dll
2016/12/15	01:56		44,936	ocijdbc12.sym
2017/03/08	06:58		565,248	ociw32.dll
2017/03/08	06:58		96,456	ociw32.sym
2014/05/04	22:17		21,385	ODBC_IC_Readme_Win.html
2017/09/13	18:25		102,912	odbc_install.exe
2017/09/13	18:25		98,816	odbc_uninstall.exe
2016/12/13	16:40		4,036,257	ojdbc8.jar
2017/03/08	06:47		71,680	oramysql12.dll
2017/03/08	06:47		44,368	oramysql12.sym
2016/11/23	21:52		4,709,888	orannzsbb12.dll
2016/11/23	21:53		2,344,232	orannzsbb12.sym
2017/03/08	06:19		1,026,048	oraocci12.dll
2017/03/08	07:34		1,161,816	oraocci12.sym
2017/03/08	06:41		1,064,960	oraocci12d.dll
2017/03/08	07:34		1,137,064	oraocci12d.sym
2017/03/08	07:31		195,298,304	oraociei12.dll
2017/03/08	07:32		13,912,192	oraociei12.sym
2016/07/28	18:42		252,416	oraons.dll
2017/03/08	07:23		295,424	orasql12.dll
2017/03/08	07:23		60,072	orasql12.sym
2017/09/13	18:24		758,272	sqora32.dll
2017/09/13	18:25		192,512	sqoras32.dll
2017/09/13	18:25		18,432	sqresja.dll
2017/09/13	18:25		19,456	sqresus.dll
2017/03/08	07:34		19,968	uidrvci.exe
2017/03/08	07:34		23,264	uidrvci.sym
2019/11/13	18:32	<DIR>		vc14
2017/01/26	02:36		74,230	xstreams.jar
			35 个文件	229,269,568 字节
			4 个目录	52,208,181,248 可用字节

开始安装，注意通过管理员模式。

```
Microsoft Windows [版本 6.1.7601]
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# C:\Windows\system32>cd /d C:\App\instantclient_12_2

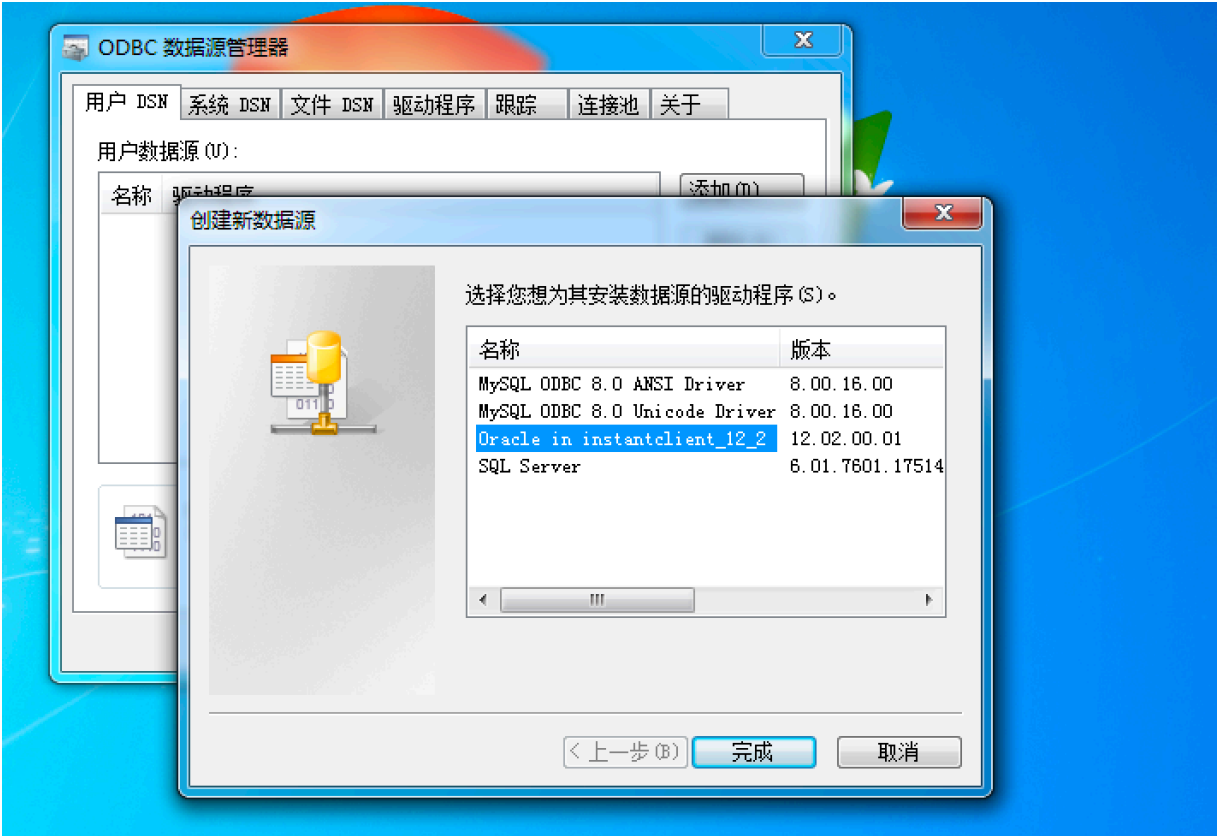
# C:\App\instantclient_12_2>odbc_install.exe
Oracle ODBC Driver is installed successfully.

# C:\App\instantclient_12_2>
```

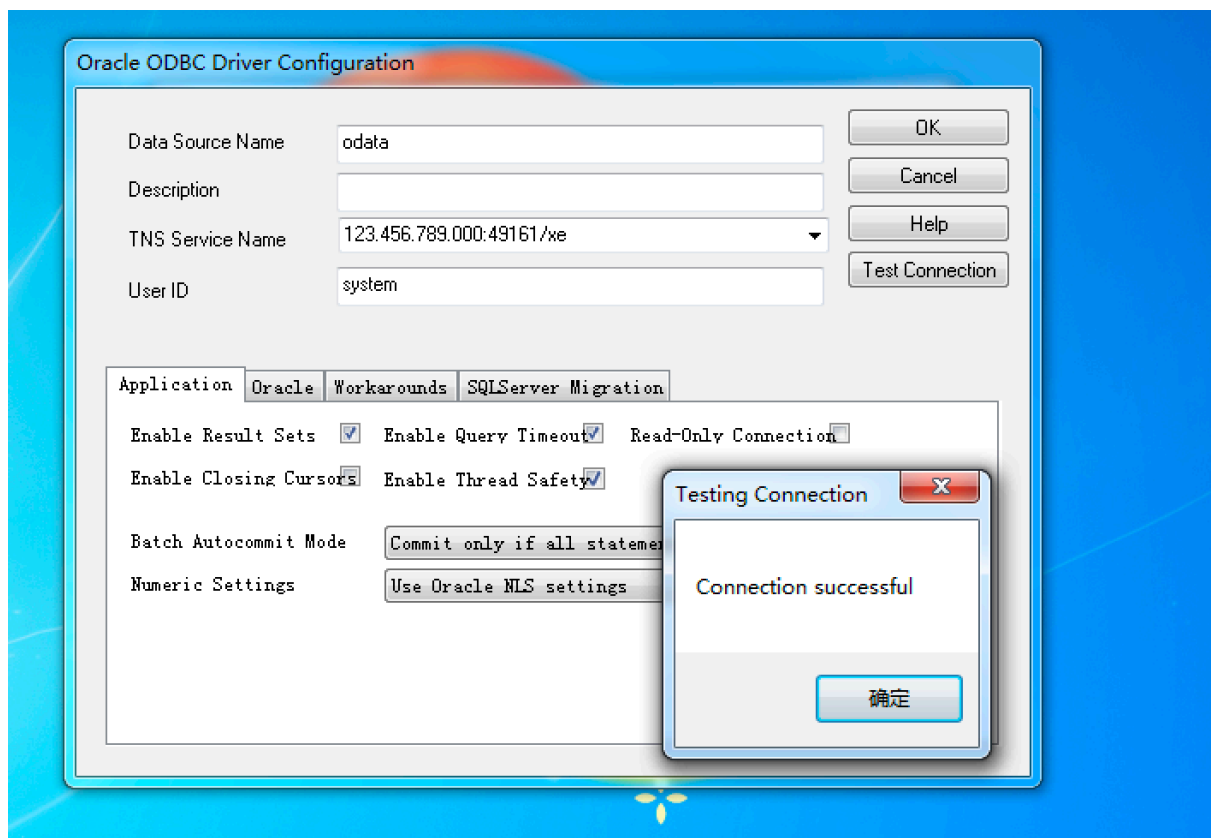
并配置环境变量：

变量	文件路径
ORACLE_HOME	C:\App\instantclient_12_2
Path 添加	C:\App\instantclient_12_2
TNS_ADMIN	C:\App\instantclient_12_2

查看ODBC，可得：



配置并测试，可得：



若无TNS，则配置为123.456.789.000:49161/orcl

(2) Mysql

根据以下链接，注意版本和位数。

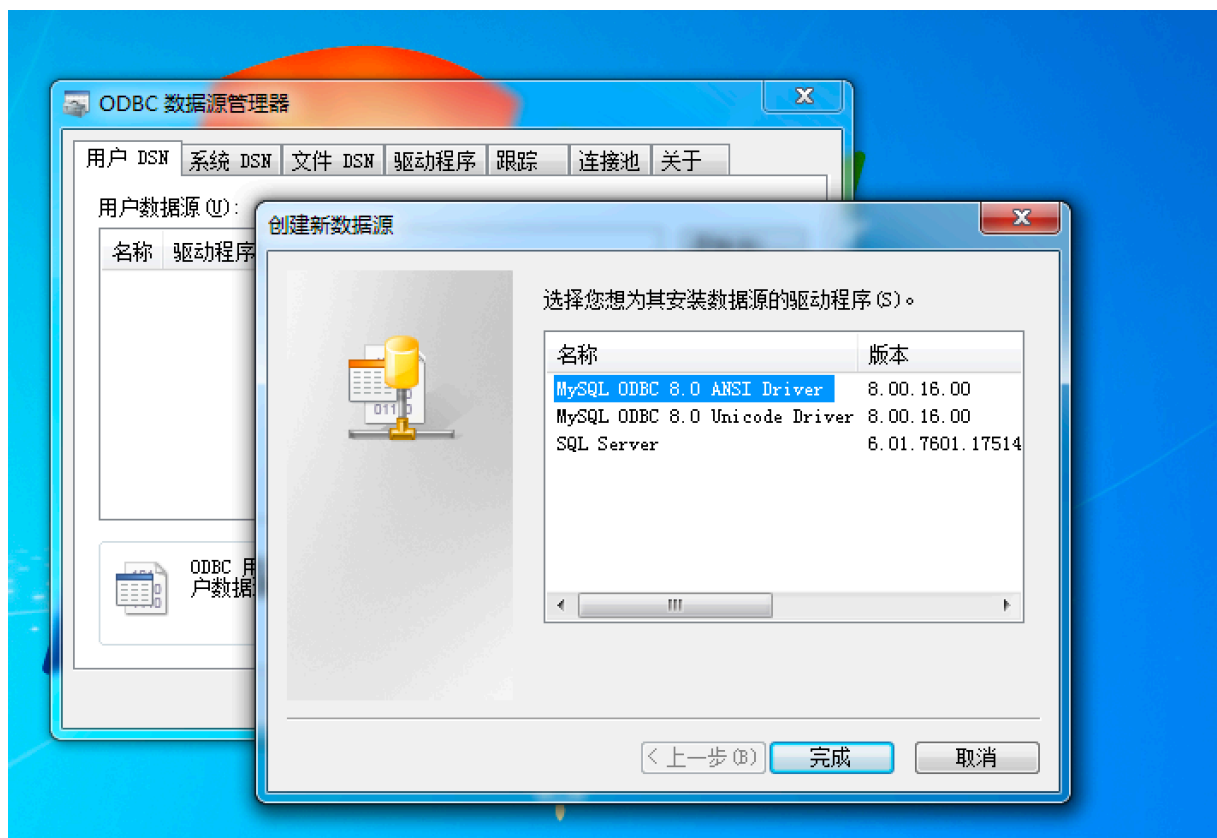
官方下载链接

<https://dev.mysql.com/downloads/connector/odbc/>

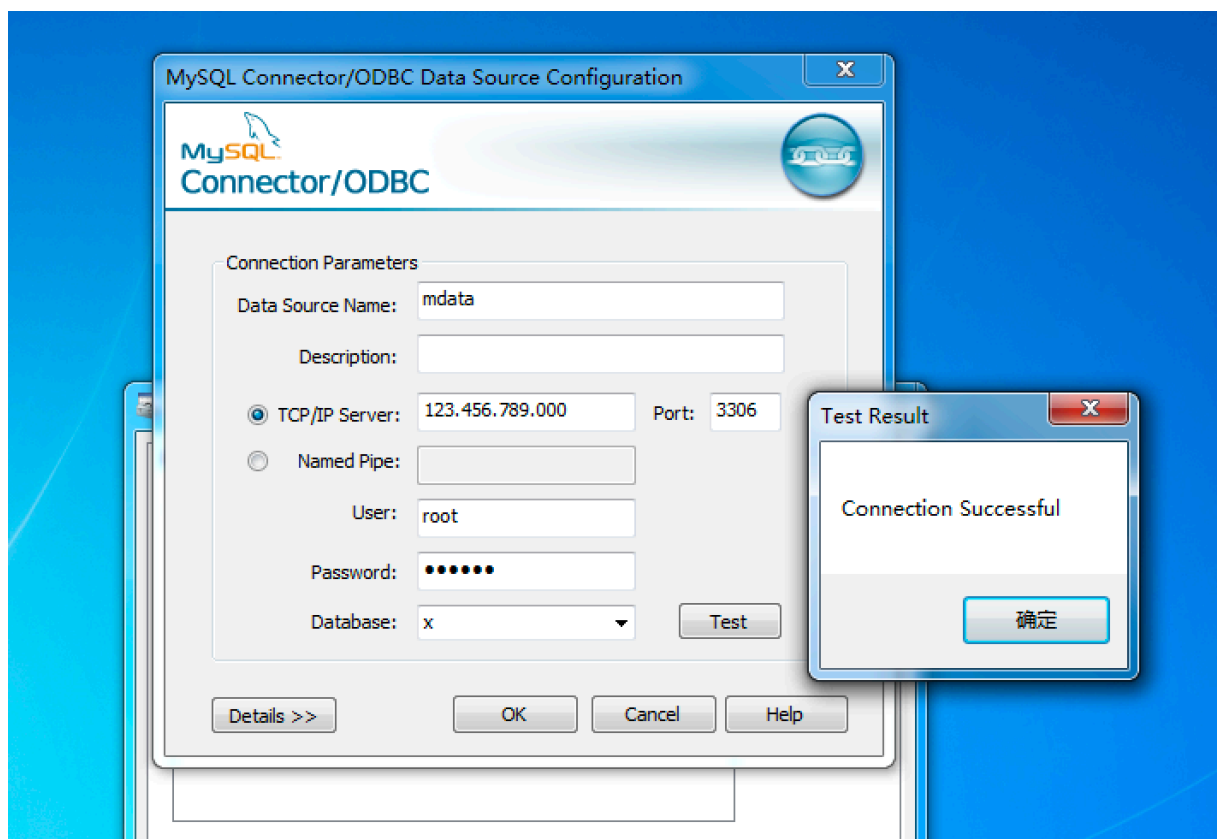
辅助下载链接

<https://ivan-bucket-out-001.oss-cn-beijing.aliyuncs.com/out/mysql-connector-odbc-8.0.16-winx64.msi>

点击安装后，查看ODBC，可得：



配置并测试，可得：



(3) IBM db2

根据以下链接，注意版本和位数。

```
# 官方下载链接
https://www.ibm.com/support/pages/db2-odbc-cli-driver-download-and-installation-
information

# 辅助下载链接
https://ivan-bucket-out-001.oss-cn-beijing.aliyuncs.com/out/v10.1fp6_nt32_odbc_cli.zip
https://ivan-bucket-out-001.oss-cn-
beijing.aliyuncs.com/out/v10.1fp6_ntx64_odbc_cli.zip
```

解压，文件路径：

```
C:\App\v10.1fp6_ntx64_odbc_cli\clidriver
```

开始安装，注意通过管理员模式。

```
Microsoft Windows [版本 6.1.7601]
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# C:\Windows\system32>cd /d C:\App\v10.1fp6_ntx64_odbc_cli\clidriver\bin

# C:\App\v10.1fp6_ntx64_odbc_cli\clidriver\bin>db2cli install -setup
IBM DATABASE 2 Interactive CLI Sample Program
(C) COPYRIGHT International Business Machines Corp. 1993,1996
All Rights Reserved
Licensed Materials - Property of IBM
US Government Users Restricted Rights - Use, duplication or
disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

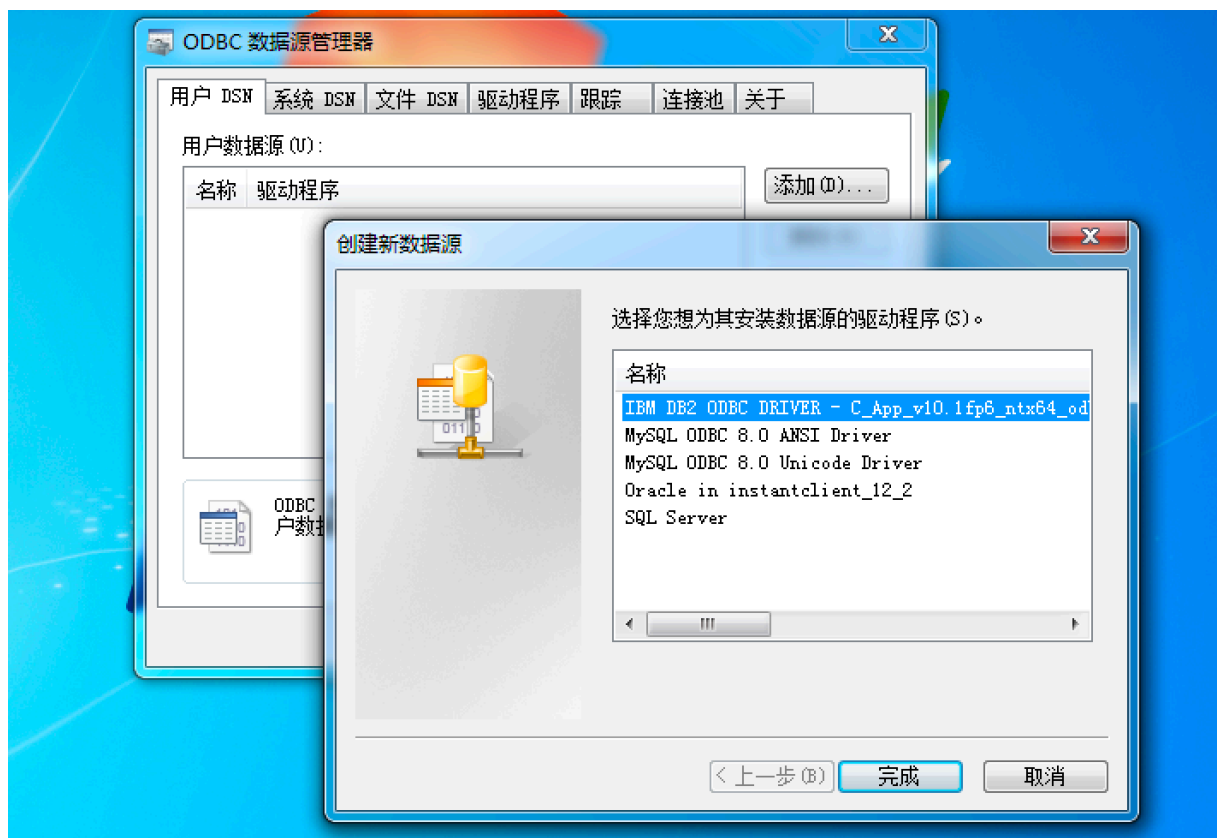
The IBM Data Server Driver for ODBC and CLI registered successfully.
The configuration folders are created successfully.

# C:\App\v10.1fp6_ntx64_odbc_cli\clidriver\bin>
```

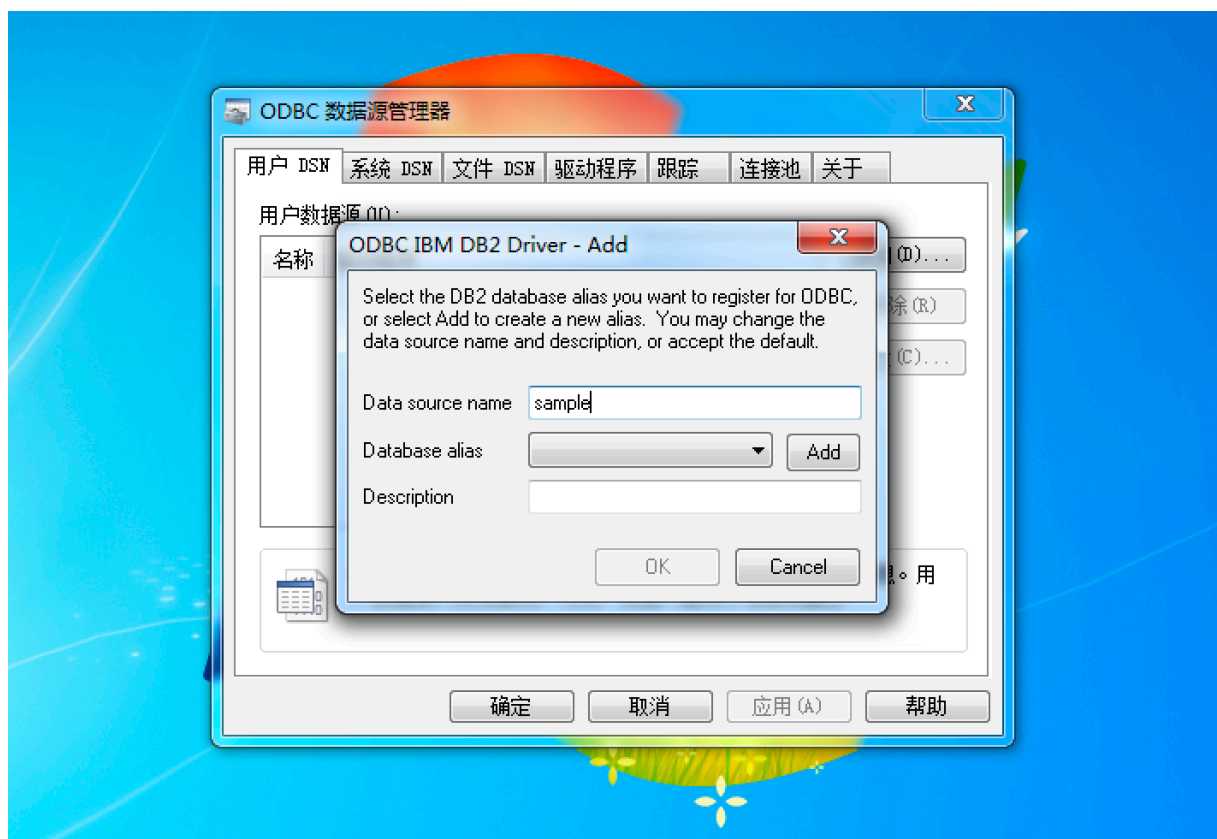
如果版本较老或上述命令无效，

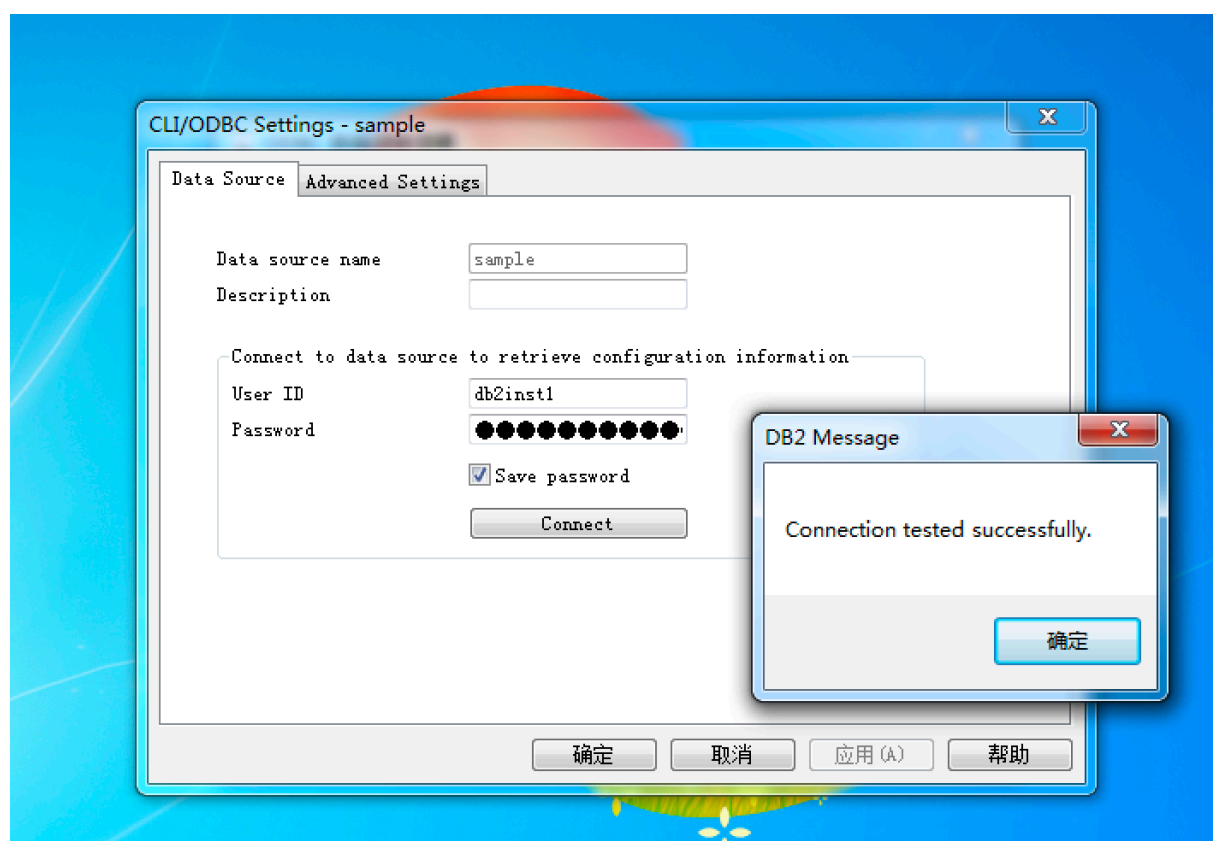
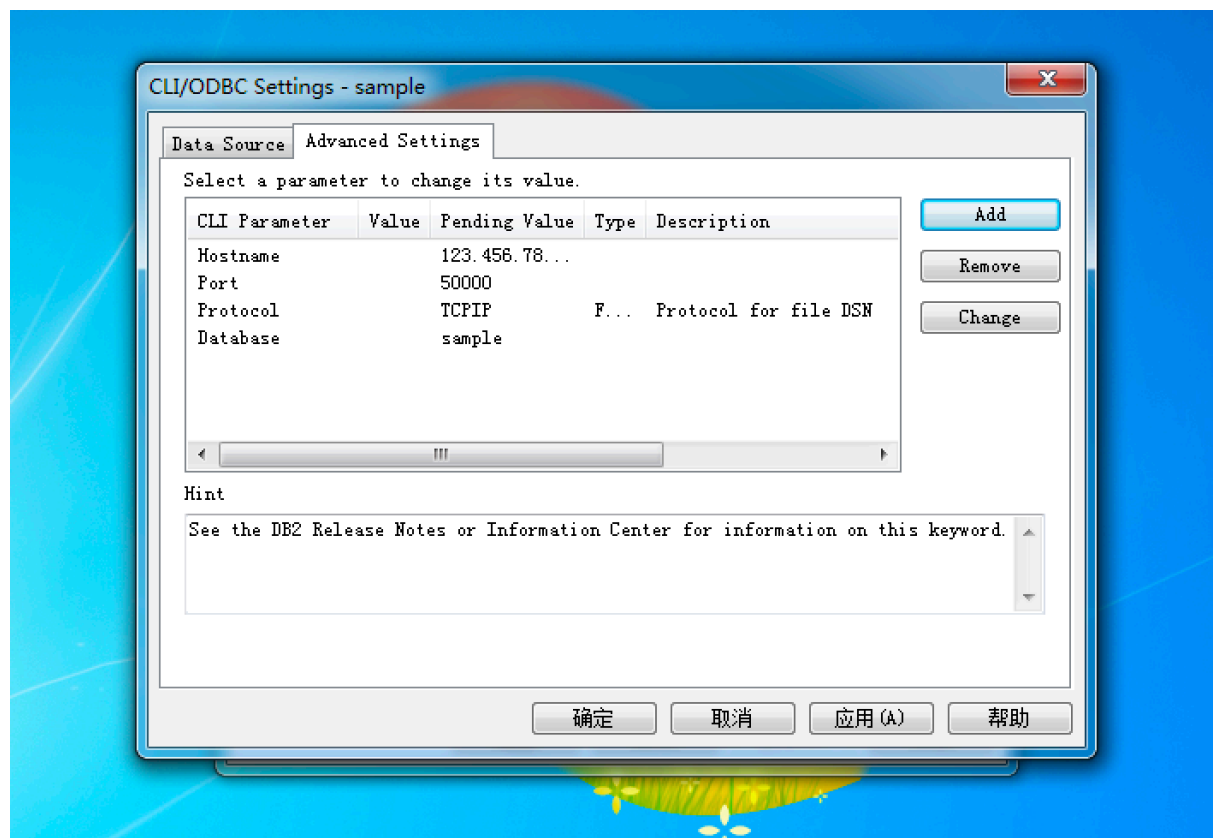
```
# db2oreg1 -i
并添加路径至Path
```

查看ODBC，可得：



配置并测试，可得：





四、SAS读取

(1) Oracle 11g

```
/* SAS */
LIBNAME TA ODBC USER=system PASSWORD=oracle DSN=odata;

/* Log
1 LIBNAME TA ODBC USER=system PASSWORD=XXXXXX DSN=odata;
NOTE: 已成功分配逻辑库引用名“TA”，如下所示：
      引擎： ODBC
      物理名： odata
*/
```

(2) Mysql

```
/* SAS */
LIBNAME TA ODBC USER=root PASSWORD=123456 DATASRC=mdata;

/* Log
1 LIBNAME TA ODBC USER=root PASSWORD=XXXXXX DATASRC=mdata;
NOTE: 已成功分配逻辑库引用名“TA”，如下所示：
      引擎： ODBC
      物理名： mdata
*/
```

(3) IBM db2

```
/* SAS */
LIBNAME TA ODBC USER=db2inst1 PASSWORD="db2inst1-pwd" DATASRC=sample;

/* Log
1 LIBNAME TA ODBC USER=db2inst1 PASSWORD=XXXXXXXXXXXXX DATASRC=sample;
NOTE: 已成功分配逻辑库引用名“TA”，如下所示：
      引擎： ODBC
      物理名： sample
*/
```