

# Squirrel对接FusionInsight

## 适用场景

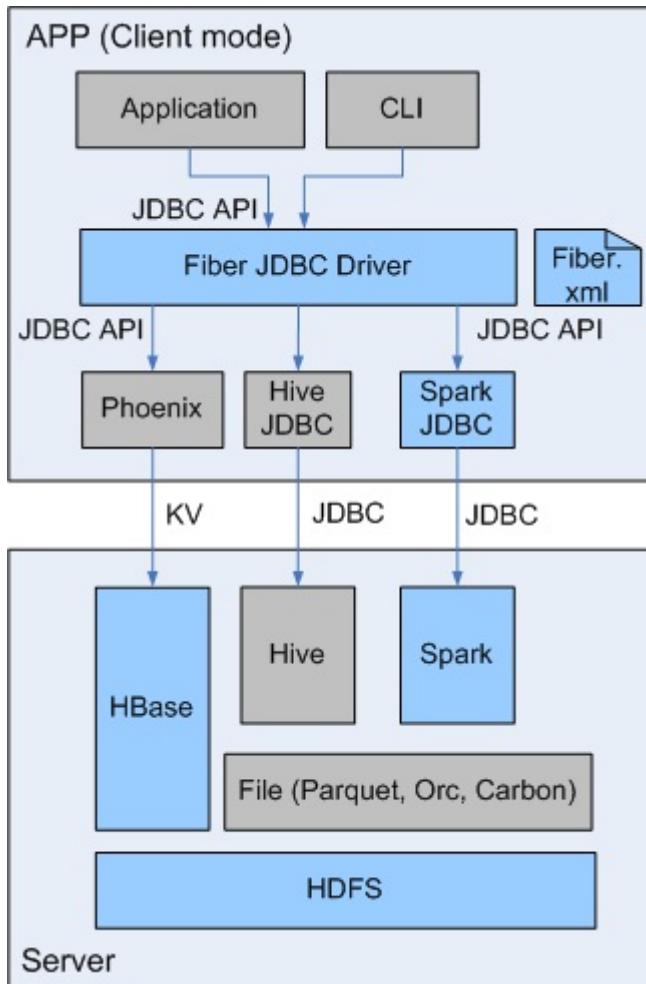
Squirrel 3.7.1 <-> FusionInsight HD V100R002C60U20

Squirrel 3.8.0 <-> FusionInsight HD V100R002C70SPC200

## 说明

SQL开发工具，如DbVisualizer、DBeaver、Squirrel是数据库开发的常用选择，虽然这些工具大多不提供原生Hive、SparkSQL、Phoenix的支持，但是通过它们支持的自定义JDBC的能力，我们可以与FusionInsight提供的Fiber组件的JDBC接口进行对接，实现对Hive、SparkSQL、Phoenix组件的统一SQL查询。

- Fiber架构图



本文介绍了Squirrel与FusionInsight的Fiber对接的操作步骤

## Squirrel安装

- 安装jdk1.8，配置环境变量。
- 参考FusionInsight产品文档安装FusionInsight客户端，位置 `/opt/hadoopclient`。
- 修改 `C:\Windows\System32\drivers\etc\hosts` 文件，加入FusionInsight集群信息。

```
162.1.93.101 162-1-93-101
162.1.93.102 162-1-93-102
162.1.93.103 162-1-93-103
```

- 在本地PC机上新建一个目录，将FusionInsight客户端下的fiber客户端文件夹Fiber拷贝至本地，例如 `C:\Fiber`。
- 参考FusionInsight产品文档创建用户test，并赋予足够的权限，下载test的keytab文件user.keytab，拷贝到 `C:\Fiber\conf\` 文件夹下。
- 将FusionInsight客户端下jaas.conf文件和krb5.conf拷贝到 `C:\Fiber\conf` 目录下，文档内容如下，principal和keytab按实际填写：

```

Client {
com.sun.security.auth.module.Krb5LoginModule required
useKeyTab=true
keyTab="C:\\Fiber\\conf\\user.keytab"
principal="test"
useTicketCache=false
storeKey=true
debug=true;
};

```

- 修改fiberxml文件配置，位置 [C:\Fiber\conf\fiber.xml](#)。

Hive的JDBC连接：

```

<jdbc>
<identify>hive</identify>
<describe>hive jdbc configuration</describe>
<driverClass>org.apache.hive.jdbc.HiveDriver</driverClass>
<securityClass>com.huawei.fiber.DefaultAuthenticationCallback</securityClass>

<classPath>C:\\Fiber\\Hive\\config;C:\\Fiber\\Hive\\Beeline\\lib;C:\\Fiber\\Hive\\Beeline\\conf</classPath>
<jdbcUrl>jdbc:hive2://162.1.93.103:24002,162.1.93.102:24002,162.1.93.101:24002/;serviceDiscoveryMode=zooKeeper;zooKeeperNamespace=
hiveserver2;sasl.qop=auth-
conf;auth=KERBEROS;principal=hive/hadoop.hadoop.com@HADOOP.COM;user.principal=test;user.keytab=C:/Fiber/conf/user.keytab</jdbcUrl>
<properties>
<property>
<name>java.security.krb5.conf</name>
<value>C:\\Fiber\\conf\\krb5.conf</value>
</property>
<property>
<name>java.security.auth.login.config</name>
<value>C:\\Fiber\\conf\\jaas.conf</value>
</property>
<property>
<name>zookeeper.server.principal</name>
<value>zookeeper/hadoop.hadoop.com</value>
</property>
<property>
<name>zookeeper.kinit</name>
<value>C:\\Program Files (x86)\\Java\\jdk1.8.0_112\\jre\\bin\\kinit.exe</value>
</property>
</properties>
</jdbc>

```

Spark的JDBC连接：

```

<jdbc>
<identify>spark</identify>
<describe>spark jdbc configuration</describe>
<driverClass>org.apache.hive.jdbc.HiveDriver</driverClass>
<securityClass>com.huawei.fiber.DefaultAuthenticationCallback</securityClass>
<classPath>C:\\Fiber\\Spark\\spark\\conf;C:\\Fiber\\Spark\\spark\\lib</classPath>
<jdbcUrl>jdbc:hive2://ha-cluster/default;saslQop=auth-
conf;auth=KERBEROS;principal=spark/hadoop.hadoop.com@HADOOP.COM;user.principal=test;user.keytab=C:/Fiber/conf/user.keytab</jdbcUrl>
<properties>
<property>
<name>java.security.krb5.conf</name>
<value>C:\\Fiber\\conf\\krb5.conf</value>
</property>
<property>
<name>java.security.auth.login.config</name>
<value>C:\\Fiber\\conf\\jaas.conf</value>
</property>
<property>
<name>zookeeper.server.principal</name>
<value>zookeeper/hadoop.hadoop.com</value>
</property>
<property>
<name>zookeeper.kinit</name>
<value>C:\\Program Files (x86)\\Java\\jdk1.8.0_112\\jre\\bin\\kinit.exe</value>
</property>
</properties>
</jdbc>

```

Phoenix的JDBC连接，需要增加属性 **hbase.myclient.keytab** 和 **hbase.myclient.principal**：

```

<jdbc>
<identify>phoenix</identify>
<describe>phoenix jdbc configuration</describe>

```

```

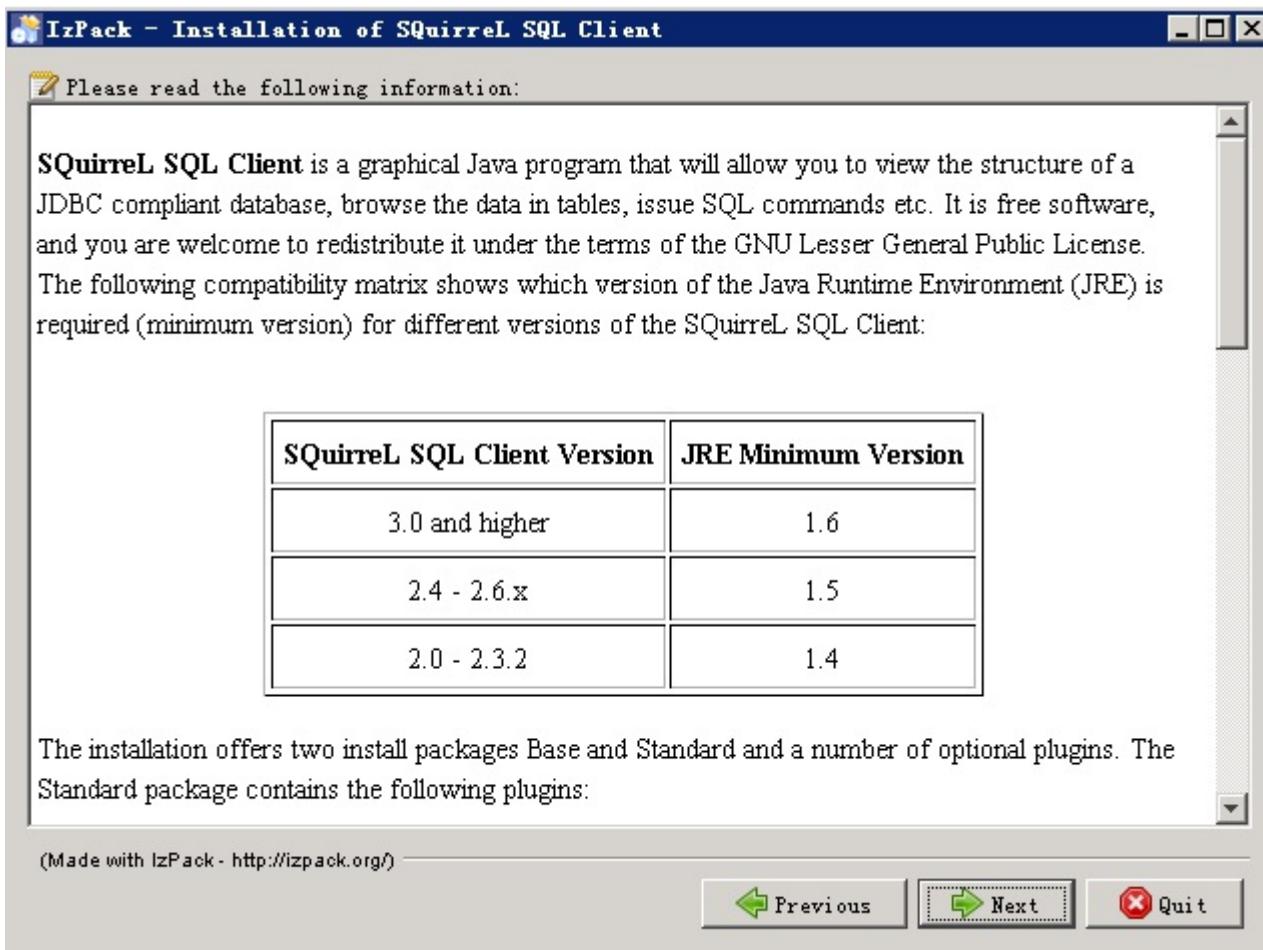
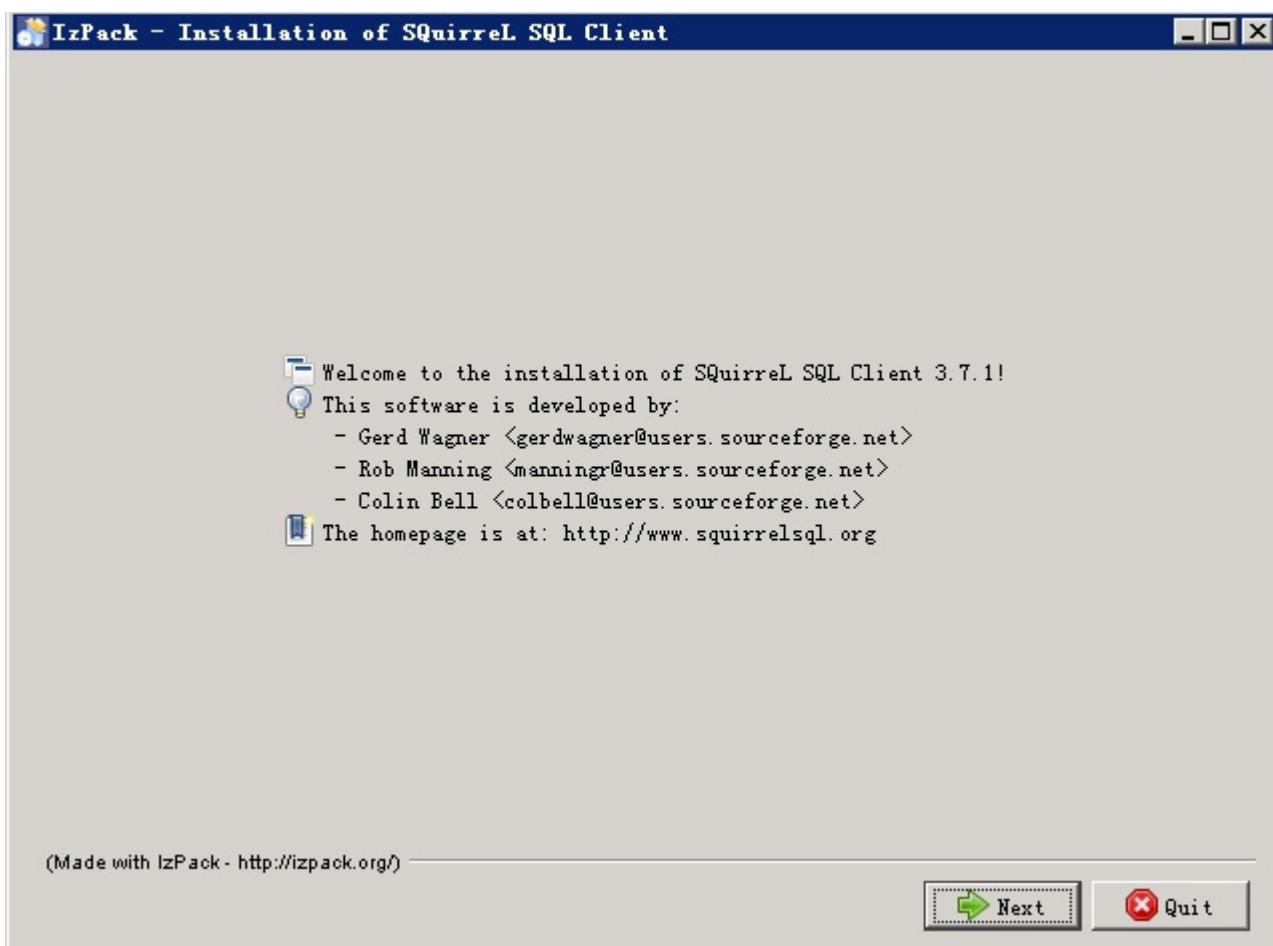
<driverClass>org.apache.phoenix.jdbc.PhoenixDriver</driverClass>
<securityClass>com.huawei.fiber.DefaultAuthenticationCallback</securityClass>
<classPath>C:\\Fiber\\HBase\\hbase\\lib;C:\\Fiber\\HBase\\hbase\\conf</classPath>
<jdbcUrl>jdbc:phoenix:162.1.93.101,162.1.93.102,162.1.93.103:24002:/hbase</jdbcUrl>
<properties>
    <property>
        <name>java.security.krb5.conf</name>
        <value>C:\\Fiber\\conf\\krb5.conf</value>
    </property>
    <property>
        <name>java.security.auth.login.config</name>
        <value>C:\\Fiber\\conf\\jaas.conf</value>
    </property>
    <property>
        <name>hbase.myclient.keytab</name>
        <value>C:\\Fiber\\conf\\user.keytab</value>
    </property>
    <property>
        <name>hbase.myclient.principal</name>
        <value>test</value>
    </property>
    <property>
        <name>zookeeper.server.principal</name>
        <value>zookeeper.hadoop.hadoop.com</value>
    </property>
    <property>
        <name>zookeeper.kinit</name>
        <value>C:\\Program Files (x86)\\Java\\jdk1.8.0_112\\jre\\bin\\kinit.exe</value>
    </property>
</properties>
</jdbc>

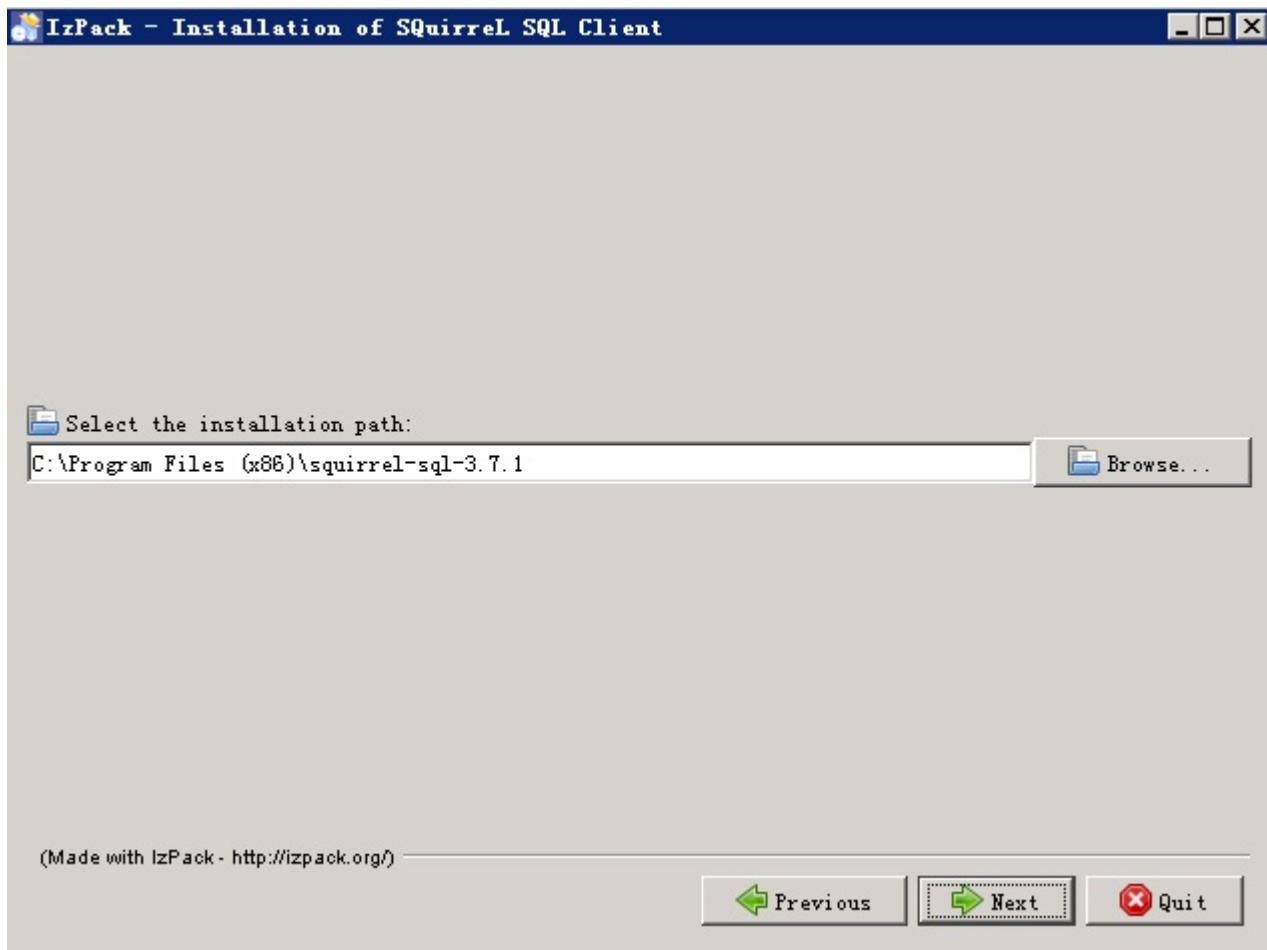
```

- 将Hive、Spark、Phoenix的JDBC配置中classPath中的文件拷贝至Fiber文件夹中。

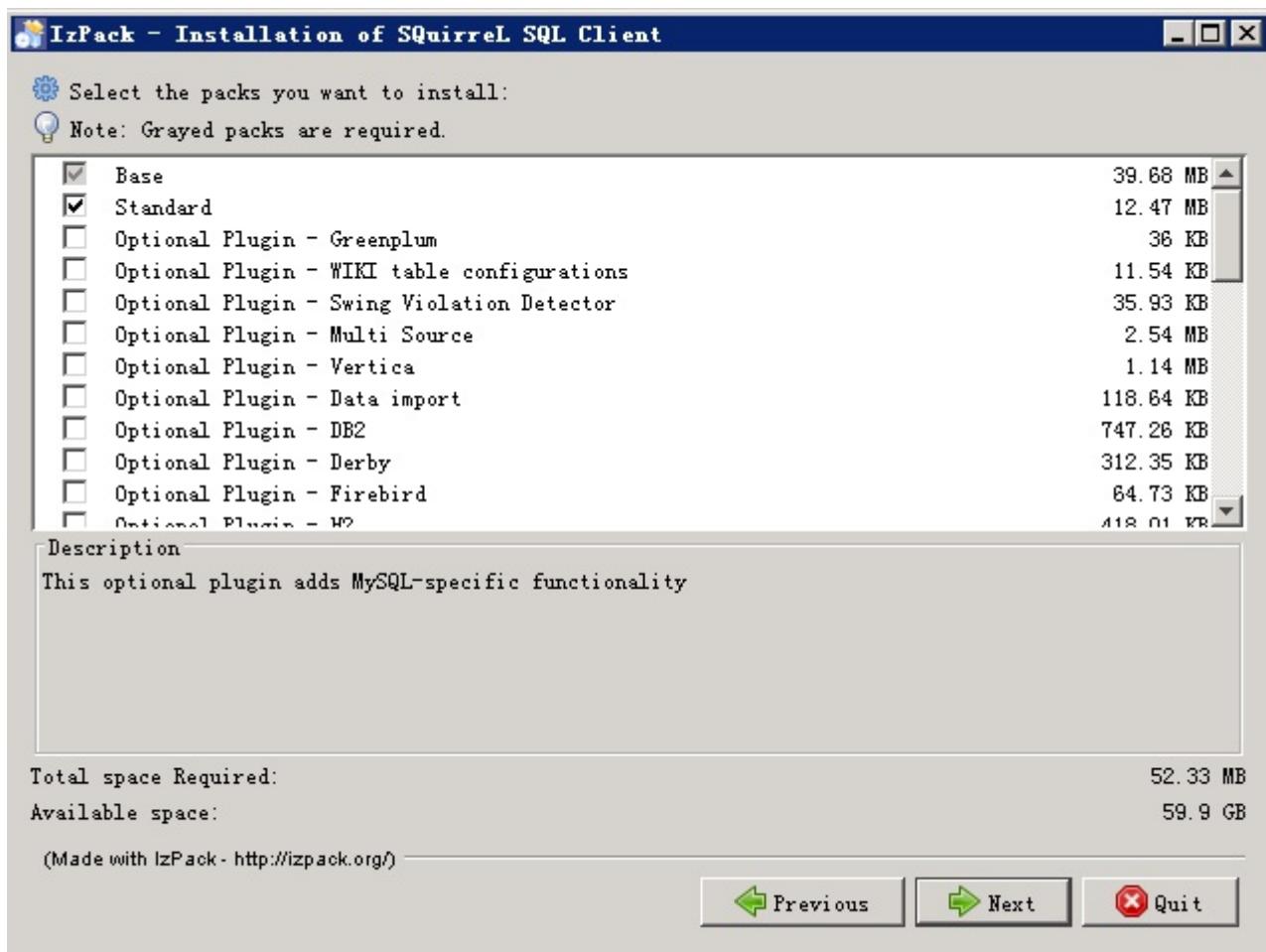
| 本地磁盘 (C:) ▾ Fiber ▾ |                 |     |
|---------------------|-----------------|-----|
| 文件夹                 |                 |     |
| 名称                  | 修改日期            | 类型  |
| bin                 | 2017/6/22 14:57 | 文件夹 |
| conf                | 2017/6/22 20:07 | 文件夹 |
| HBase               | 2017/6/22 20:24 | 文件夹 |
| Hive                | 2017/6/22 15:07 | 文件夹 |
| lib                 | 2017/6/22 14:57 | 文件夹 |
| Spark               | 2017/6/22 20:21 | 文件夹 |
| component_env       | 2017/5/20 16:05 | 文件  |

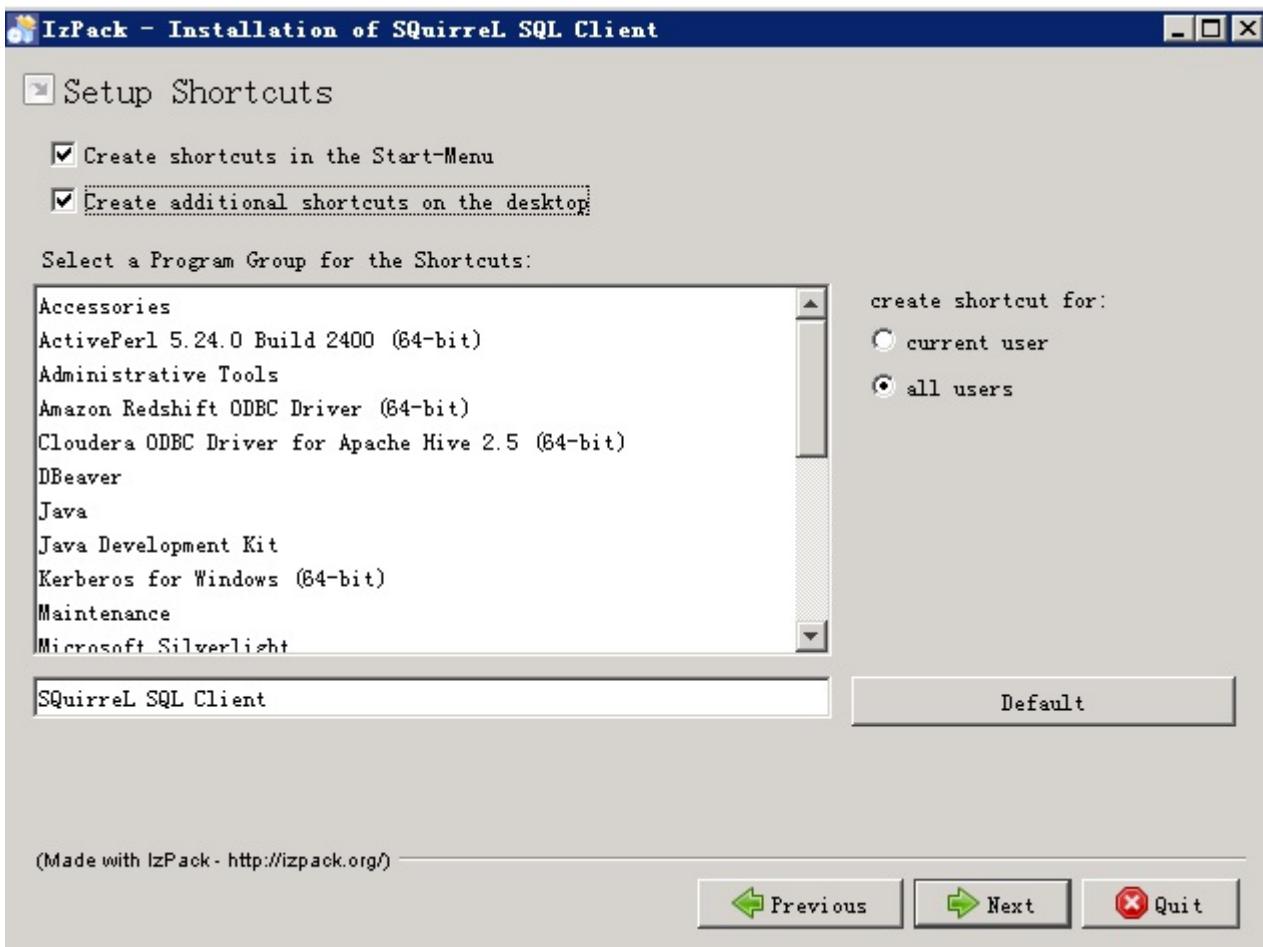
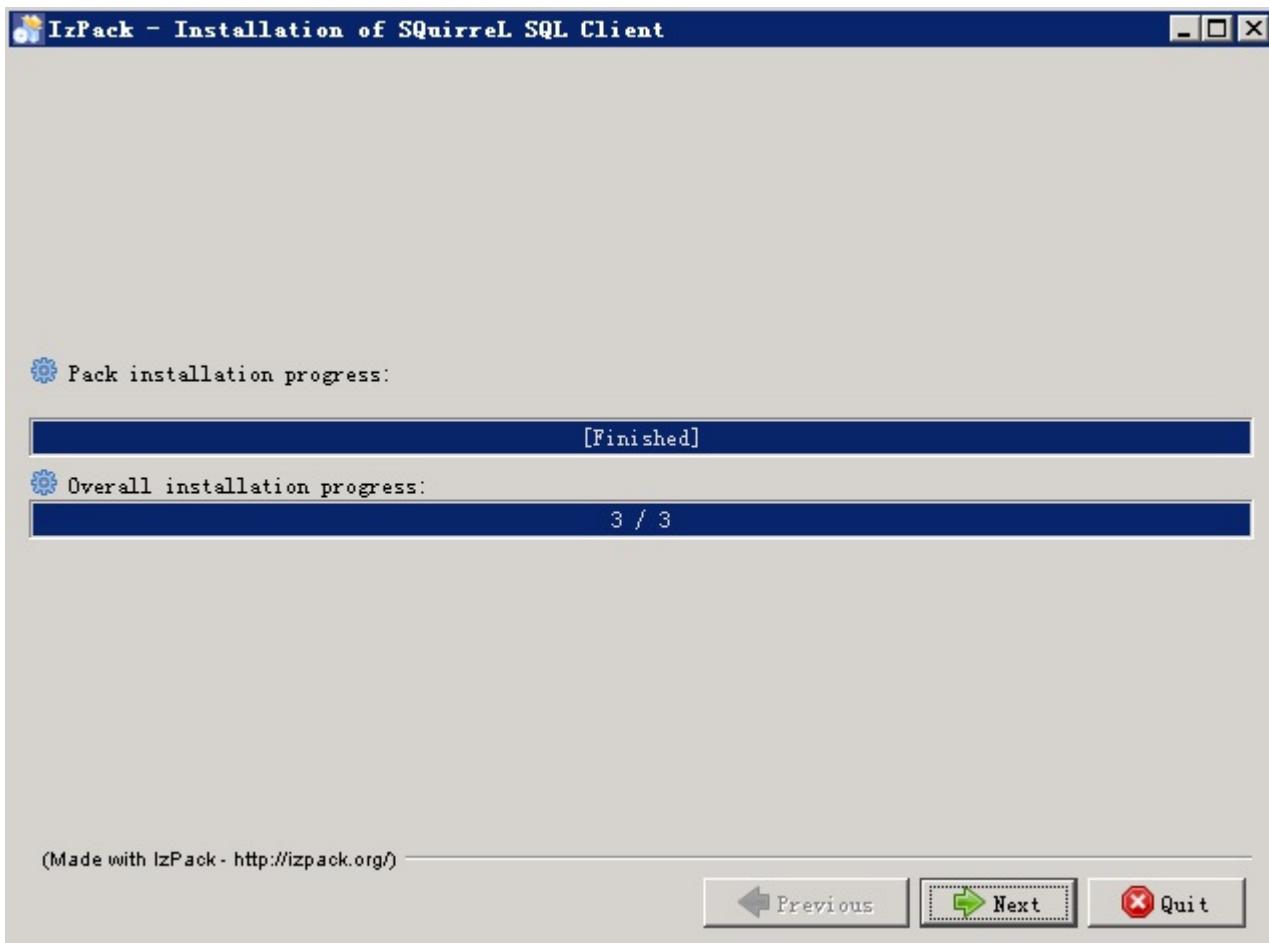
- 下载Squirrel，地址：<http://www.squirrelsql.org/#installation>，选择Install jar of SQuirreL 3.7.1 for Windows/Linux/others，下载软件squirrel-sql-3.7.1-standard.jar
- 双击squirrel-sql-3.7.1-standard.jar安装

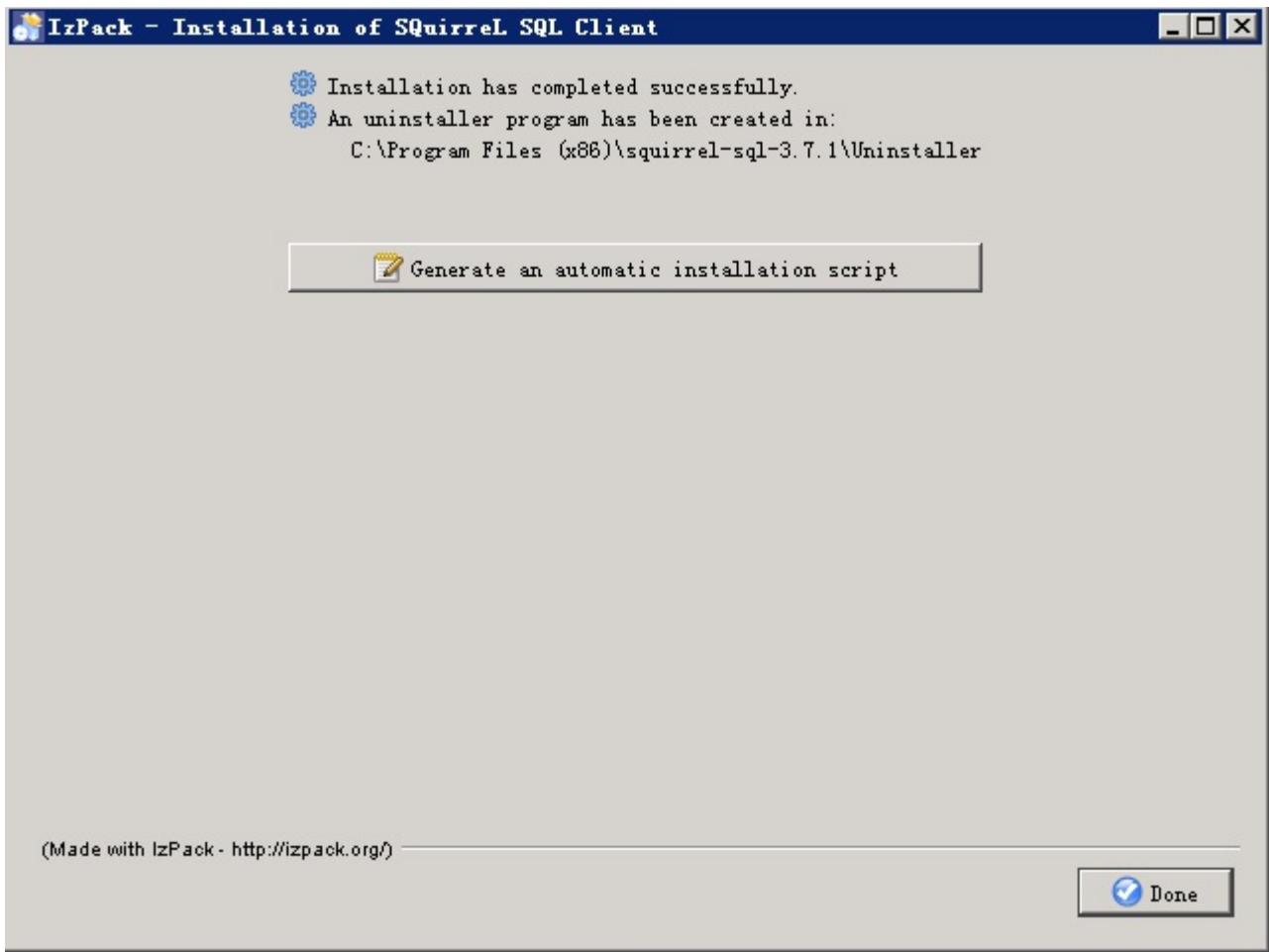




- 在这里可以选择要安装哪些环境，使用的数据库插件，语言包。



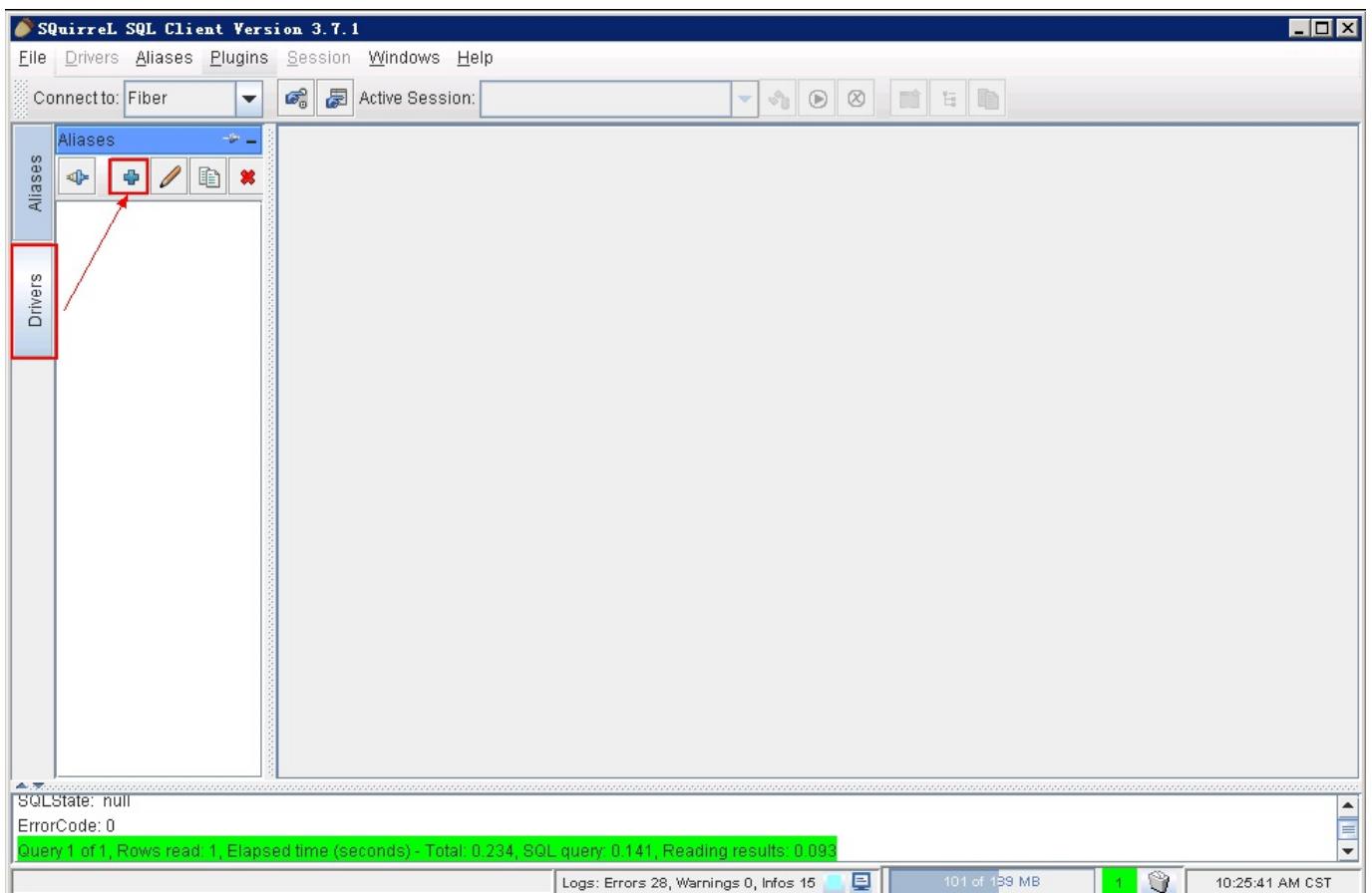




## SQuirreL连接Fiber

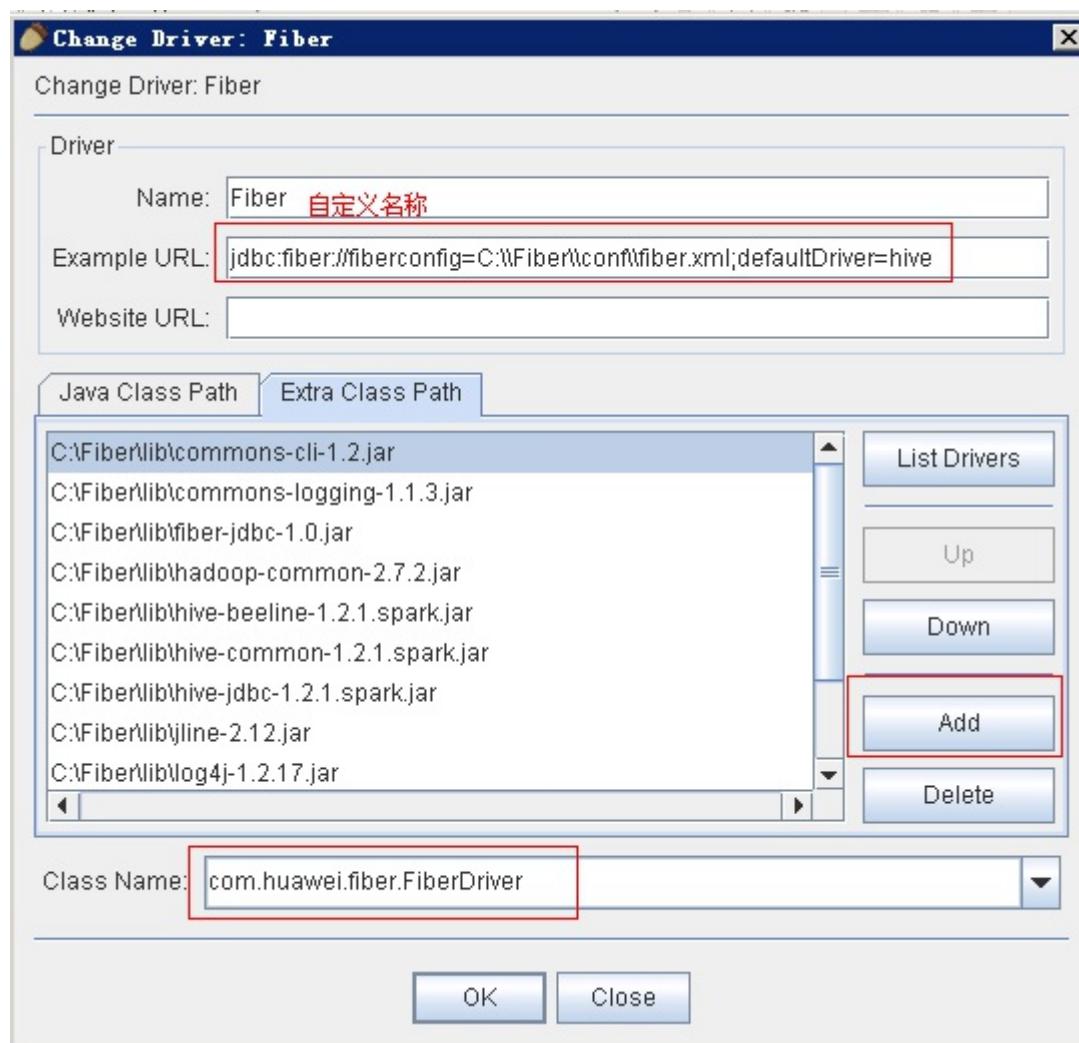
使用SQuirreL SQL Client通过Fiber连接FusionInsight的Hive、SparkSQL、Phoenix组件。

- 打开SQuirreL SQL Client，选择Drivers，点击+。

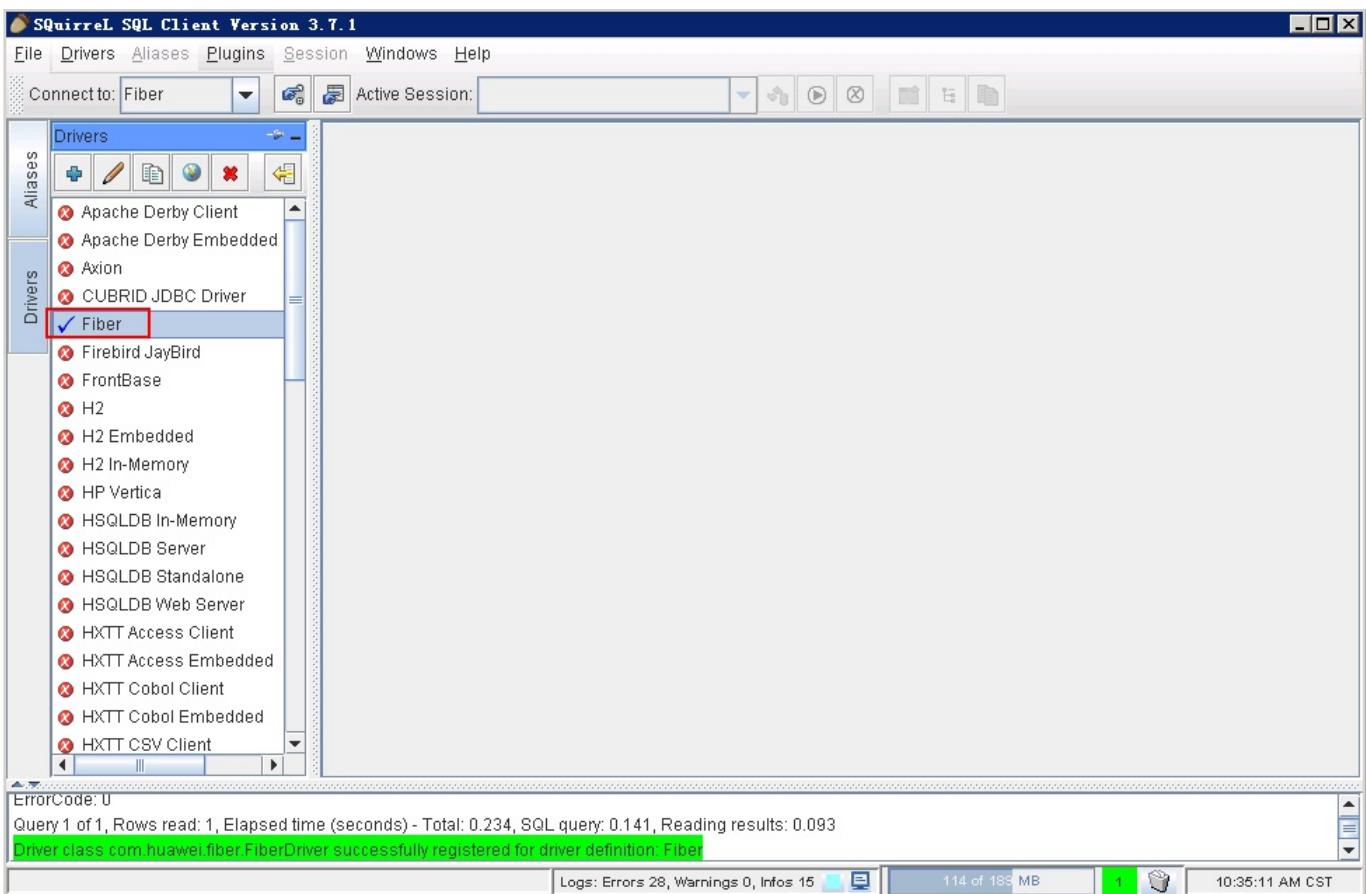


- 填写Driver信息，点击OK。

- Name: Fiber (自定义)
- Example URL: jdbc:fiber://fiberconfig=C:\Fiber\conf\fiberxml;defaultDriver=hive
- Extra Class Path: 将Fiber/lib下的jar包都添加进来
- ClassName: com.huawei.fiber.FiberDriver

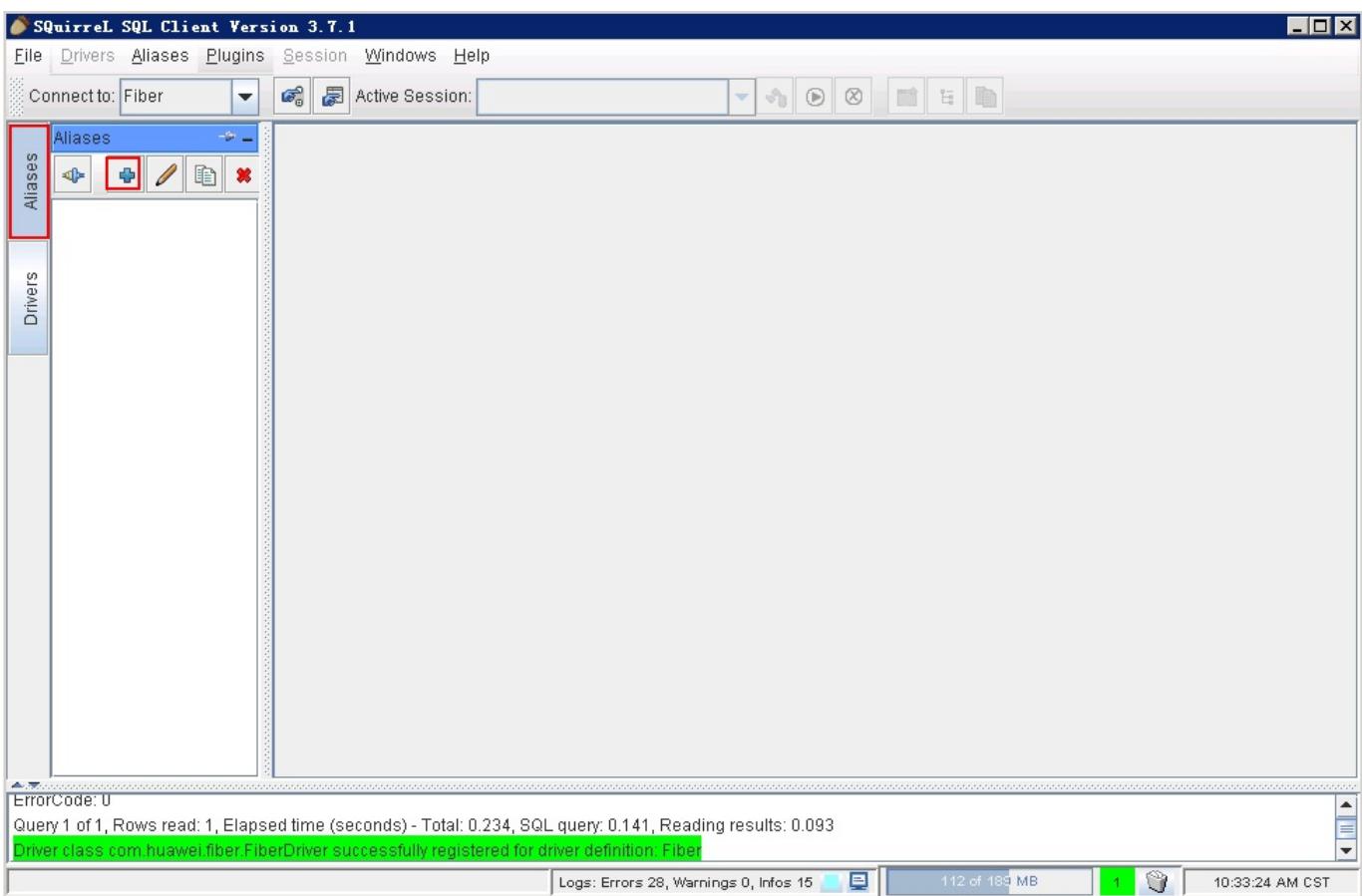


- 可以看到添加完成的Driver Fiber。



## 对接Hive

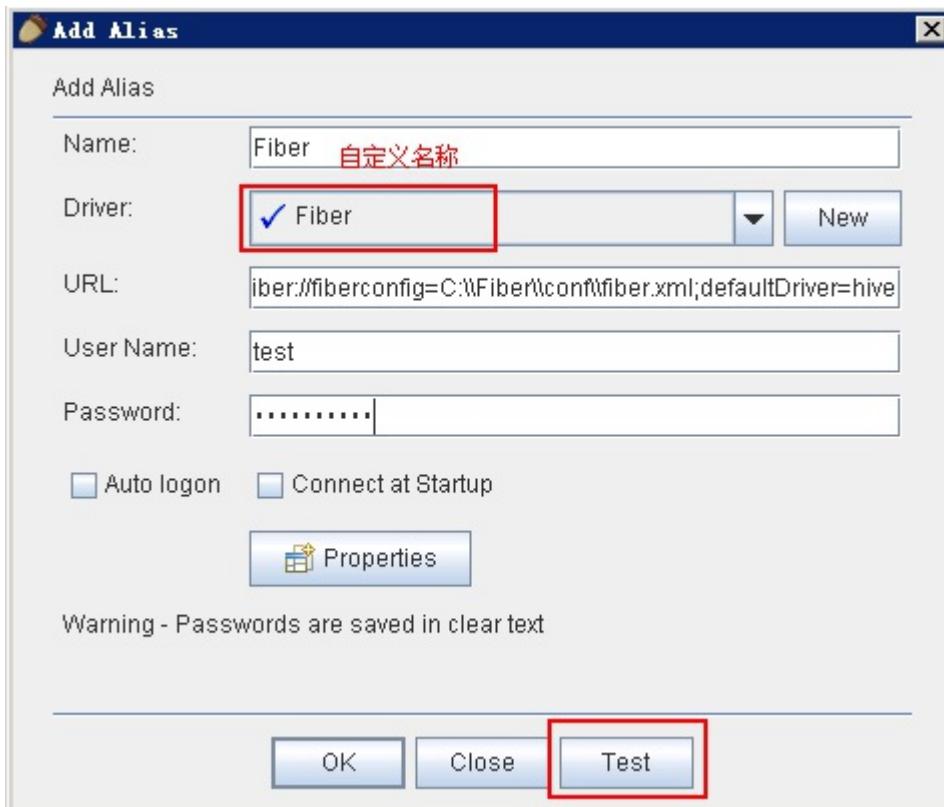
- 点击 Aliases, 点击 +



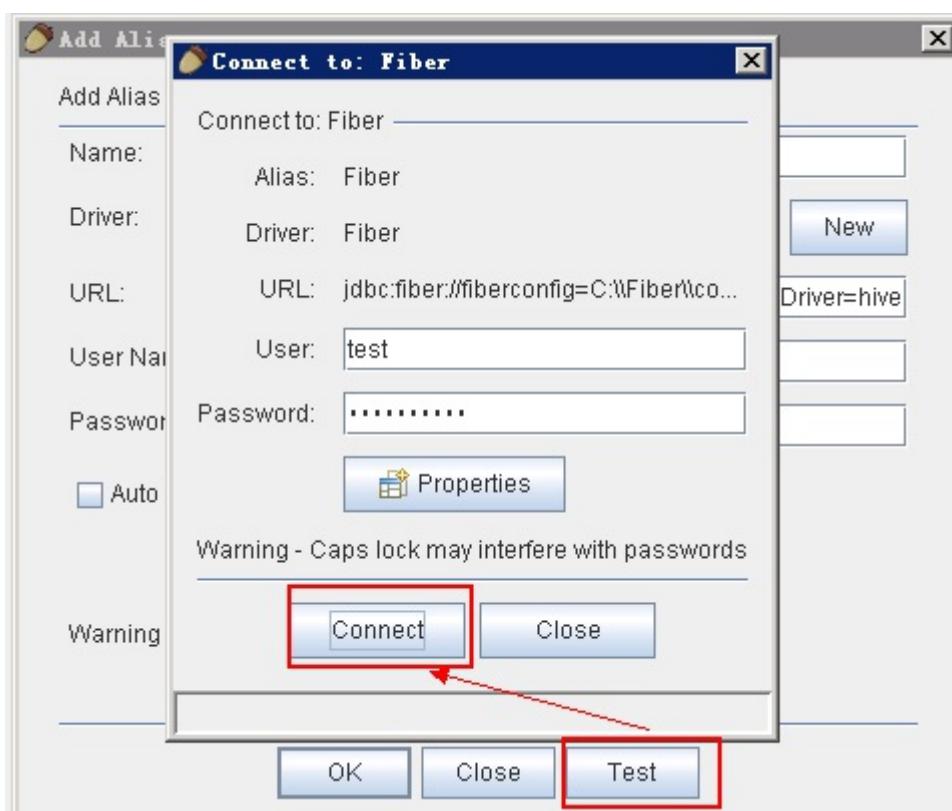
- 在弹出框中填写信息

- Name: Fiber (自定义)
- Driver: 选择Fiber
- User Name: test

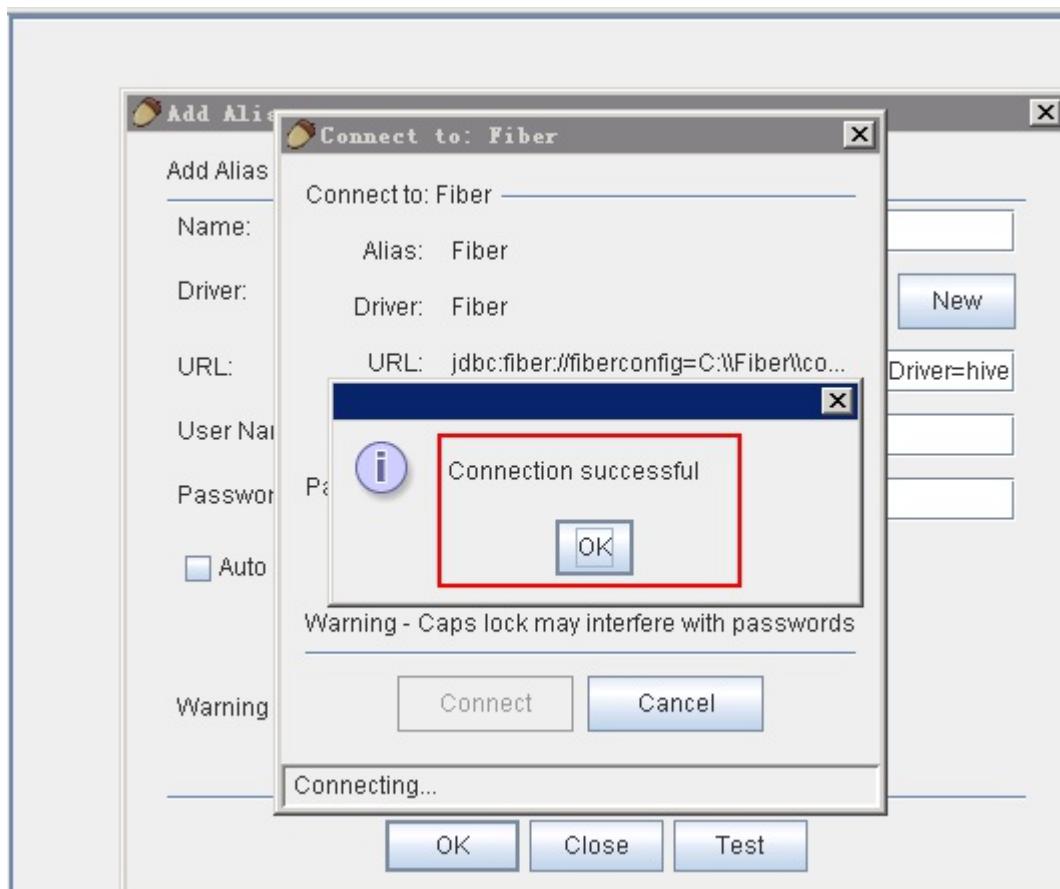
- Password: 密码



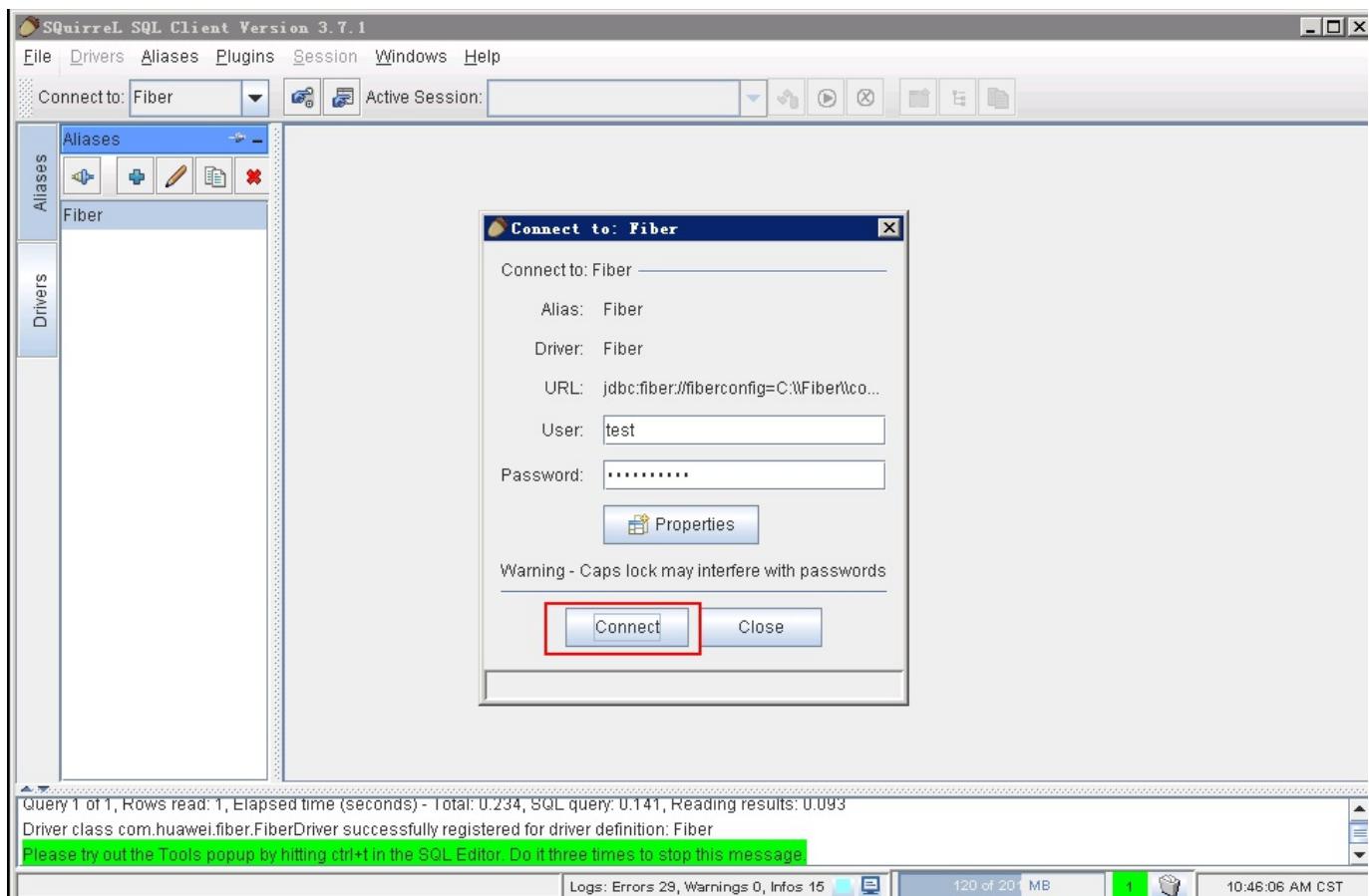
- 点击 Connect



- 连接成功，点击 OK



- 点击 Connect



- 查看hive中数据表

SQuirreL SQL Client Version 3.7.1

File Drivers Aliases Plugins Session Windows Help

Connect to: Fiber Active Session: 3 - Fiber () as test

Aliases Objects SQL

Drivers

Fiber
 

- default
  - INDEX\_TABLE
  - TABLE
    - fiber\_test
    - pokes
    - test
    - workers\_info**
  - VIEW
  - UDT

Imported Keys Indexes Privileges Column Privileges Row IDs Versions

Info Content Row Count Columns Primary Key Exported Keys

| COLUMN_... | TYPE_N... | IS_NULLA... | DECIMAL_DIGI... | COLUMN_... | COLUMN_... | REMA... | DATA_T... | BUFFER_Le... | NUM_I... |
|------------|-----------|-------------|-----------------|------------|------------|---------|-----------|--------------|----------|
| id         | INT       | YES         | 0               | 10         | <null>     | <null>  | 4         | <null>       | 10       |
| name       | STRING    | YES         | <null>          | 2147483647 | <null>     | <null>  | 12        | <null>       | <null>   |
| usd_flag   | STRING    | YES         | <null>          | 2147483647 | <null>     | <null>  | 12        | <null>       | <null>   |
| salary     | DOUBLE    | YES         | 15              | 15         | <null>     | <null>  | 8         | <null>       | 10       |
| address    | STRING    | YES         | <null>          | 2147483647 | <null>     | <null>  | 12        | <null>       | <null>   |
| entrytime  | STRING    | YES         | <null>          | 2147483647 | <null>     | <null>  | 12        | <null>       | <null>   |

/Fiber/default/TABLE/workers\_info 1,1 / 1

Driver class com.huawei.fiber.FiberDriver successfully registered for driver definition: Fiber  
Please try out the Tools popup by hitting ctrl+t in the SQL Editor. Do it three times to stop this message.  
Please try out the Tools popup by hitting ctrl+t in the SQL Editor. Do it three times to stop this message.

Logs: Errors 45, Warnings 0, Infos 15 145 of 201 MB 0 10:47:21 AM CST

点击 SQL 面板，编辑SQL语句，点击 执行 按钮，在下方可以看到查询结果。

SQuirreL SQL Client Version 3.7.1

File Drivers Aliases Plugins Session Windows Help

Connect to: Fiber Active Session: 3 - Fiber () as test

Aliases Objects SQL

Drivers

Fiber

SQL

select \* from workers\_info

select \* from workers\_info;

select \* from w

Rows 1: select \* from workers\_info Rows: 1, Cols: 0

Results MetaData Info Overview / Charts Rotated table Results as text

| workers_info.id | workers_info.name | workers_info.usd_flag |
|-----------------|-------------------|-----------------------|
| 5               | Wang              | M                     |

/Fiber/default/TABLE/workers\_info 3,28 / 31

SQLState: null  
ErrorCode: 0  
Query 1 of 1, Rows read 1, Elapsed time (seconds) - Total: 0.25, SQL query: 0.204, Reading results: 0.046

Logs: Errors 53, Warnings 0, Infos 15 116 of 201 MB 0 10:59:43 AM CST

- Hive增加数据:

编辑数据文件data\_input.txt, 上传至集群的hdfs目录中, 例如 /tmp/ 下, 文本内容如下:

```
[root@162-1-93-103 opt]# hdfs dfs -cat /tmp/data_input.txt
1,Zhang,M,12000.22,china:shanghai,2017
```

编辑脚本, 点击 执行 按钮:

```
load data inpath '/tmp/data_input.txt' overwrite into table  
workers_info
```

The screenshot shows the SQuirreL SQL Client interface. The top bar displays "SQuirreL SQL Client Version 3.7.1" and the menu bar includes File, Drivers, Aliases, Plugins, Session, Windows, Help. The "Aliases" tab is selected in the sidebar. The main area shows two sessions: "1 - Fiber () as test" and "2 - Fiber () as test". The "SQL" tab is selected in session 2. A red box highlights the SQL command: "load data inpath '/tmp/data\_input.txt' overwrite into table workers\_info". Below the command, the results of a "select \* from workers\_info" query are displayed in a table:

| workers_info.id | workers_info.name | workers_info.usd_flag |
|-----------------|-------------------|-----------------------|
| 5               | Wang              | M                     |

The status bar at the bottom shows "SQLState: 42000", "ErrorCode: 40000", and "Query 1 of 1, Rows read: 0, Elapsed time (seconds) - Total: 0.234, SQL query: 0.234, Reading results: 0".

查看结果：

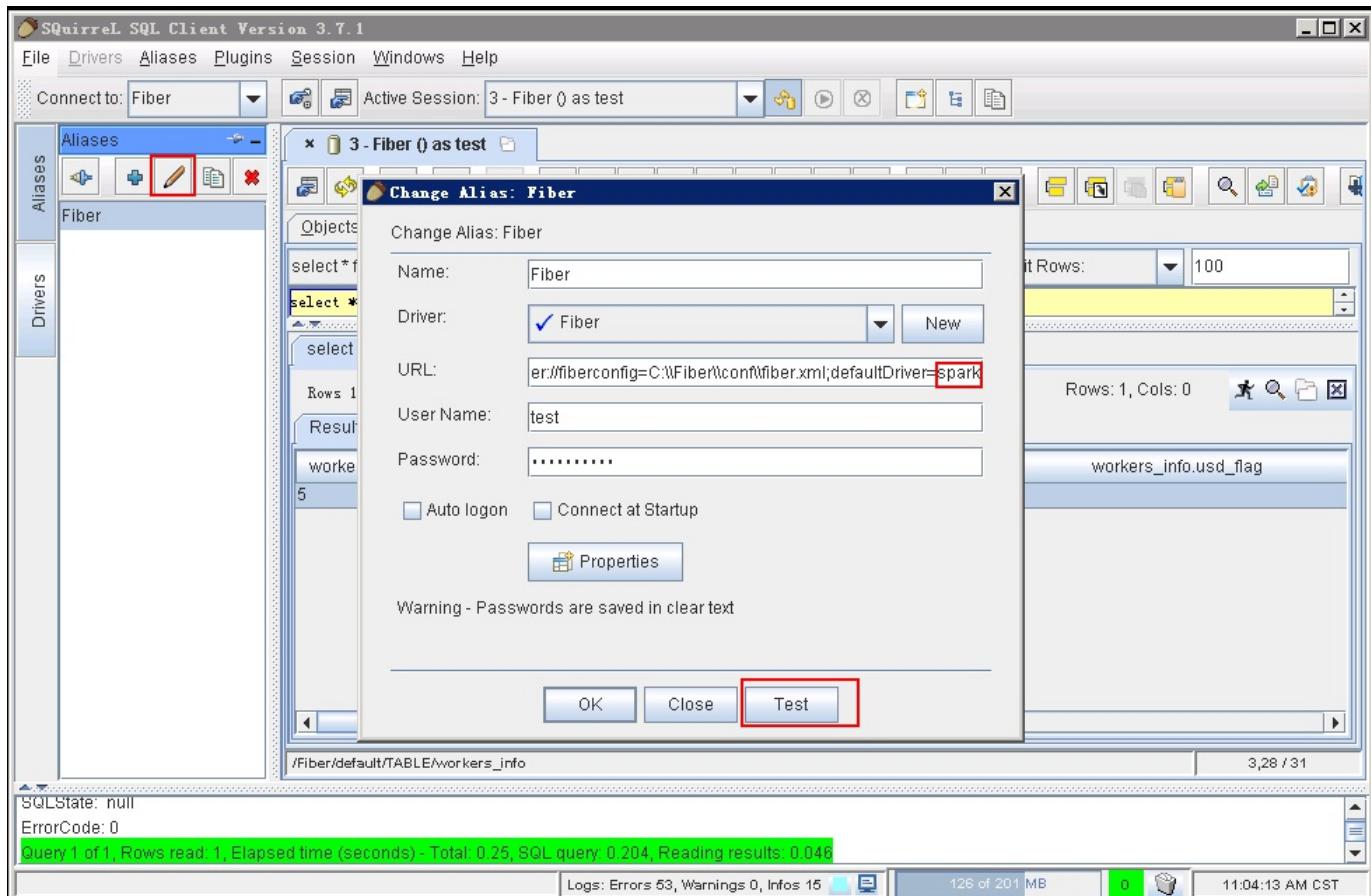
The screenshot shows the SQuirreL SQL Client interface. The top bar displays "SQuirreL SQL Client Version 3.7.1" and the menu bar includes File, Drivers, Aliases, Plugins, Session, Windows, Help. The "Aliases" tab is selected in the sidebar. The main area shows two sessions: "1 - Fiber () as test" and "2 - Fiber () as test". The "SQL" tab is selected in session 2. A red box highlights the SQL command: "select \* from workers\_info". Below the command, the results of a "select \* from workers\_info" query are displayed in a table:

| workers_info.id | workers_info.name | workers_info.usd_flag |
|-----------------|-------------------|-----------------------|
| 1               | Zhang             | M                     |

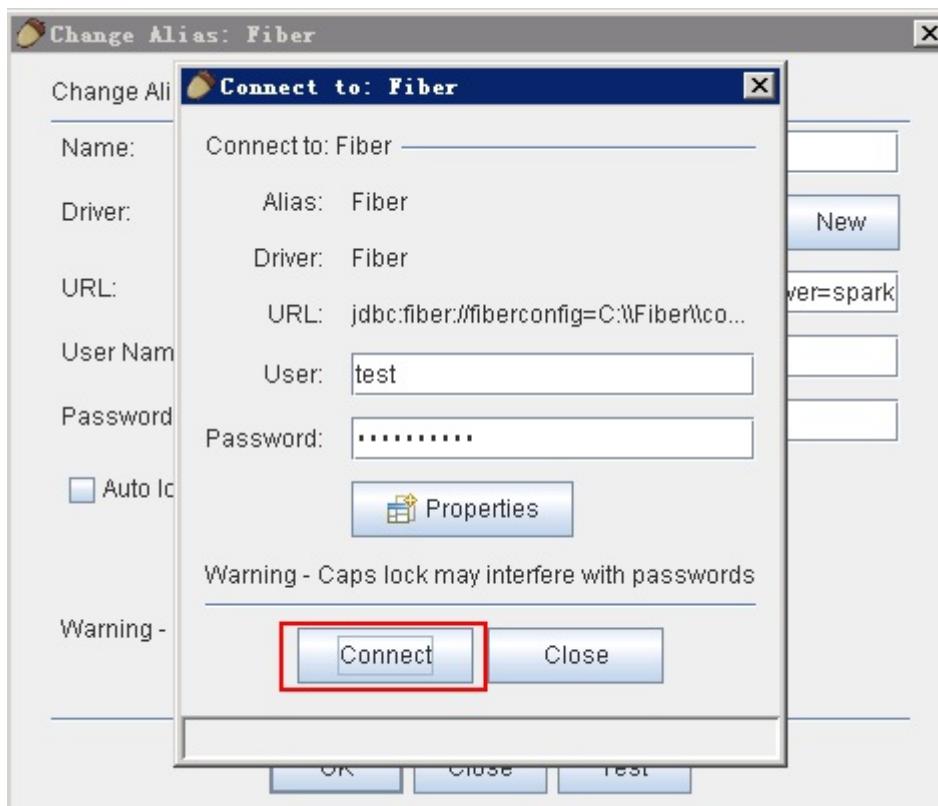
The status bar at the bottom shows "SQLState: null", "ErrorCode: 0", and "Query 1 of 1, Rows read: 1, Elapsed time (seconds) - Total: 0.219, SQL query: 0.157, Reading results: 0.062".

对接SparkSQL

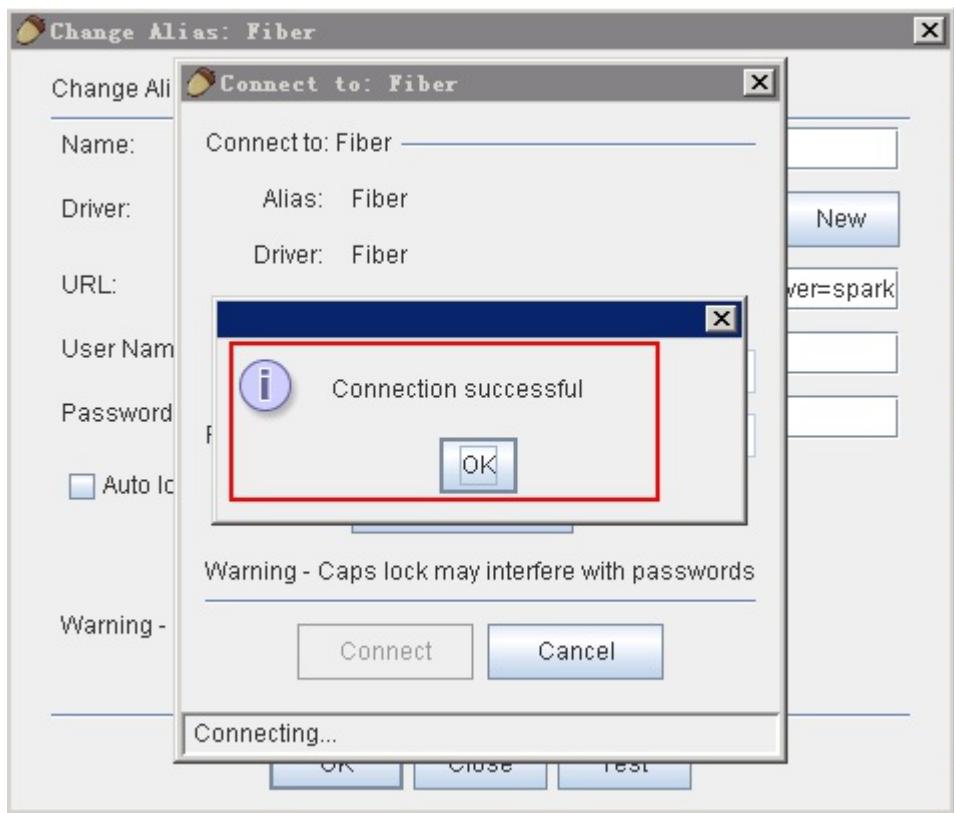
- 将defaultDriver切换为spark，点击 **Test**



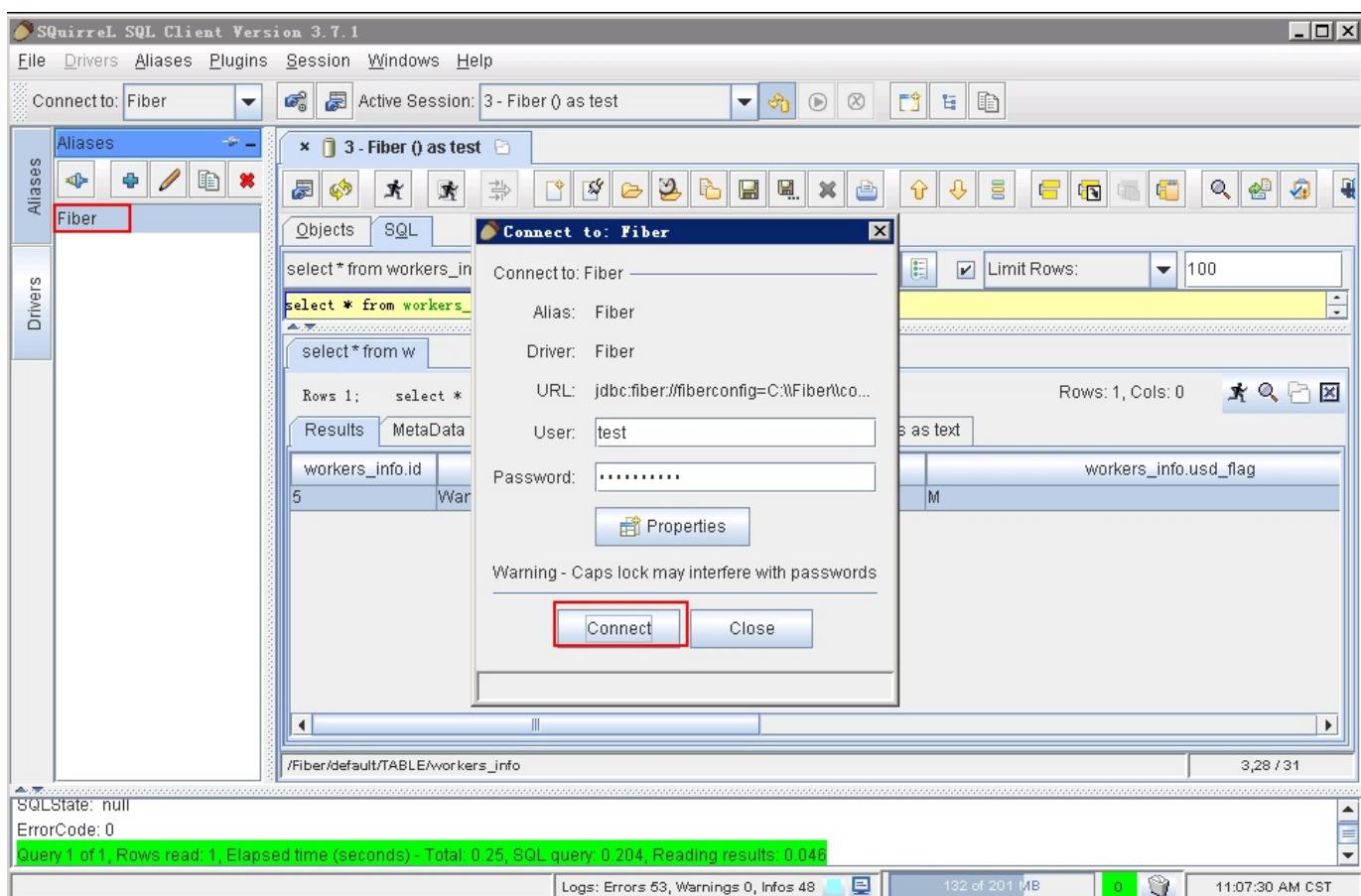
- 点击 **Connect**



- 连接成功，点击 **OK**



- 双击Fiber，点击 Connect，将driver切换为spark



- 可以看到数据表

SQuirreL SQL Client Version 3.7.1

File Drivers Aliases Plugins Session Windows Help

Connect to: Fiber Active Session: 4 - Fiber () as test

Aliases Drivers

Objects SQL

Fiber default INDEX\_TABLE TABLE VIEW UDT

TABLE fiber\_test pokes test workers\_info

| Property Name |                      | Value |
|---------------|----------------------|-------|
| catalogName   | <null>               |       |
| childTables   | <null>               |       |
| exportedKeys  | <null>               |       |
| importedKeys  | <null>               |       |
| qualifiedName | default.workers_info |       |
| remarks       | <null>               |       |
| schemaName    | default              |       |
| simpleName    | workers_info         |       |
| type          | TABLE                |       |

/Fiber/default/TABLE/workers\_info 1,1 / 1

ErrorCode: U

Query 1 of 1, Rows read: 1, Elapsed time (seconds) - Total: 0.25, SQL query: 0.204, Reading results: 0.046

Please try out the Tools popup by hitting ctrl+t in the SQL Editor. Do it three times to stop this message.

Logs: Errors 54, Warnings 0, Infos 81 118 of 201 MB 0 11:08:57 AM CST

- 点击 **SQL面板**，编辑SQL语句，点击 **执行** 按钮，在下方可以看到查询结果。

SQuirreL SQL Client Version 3.7.1

File Drivers Aliases Plugins Session Windows Help

Connect to: Fiber Active Session: 4 - Fiber () as test

Aliases Drivers

Objects SQL

select \* from workers\_info

select \* from w

| Results |      |          |           | Rows: 1, Cols: 0 |
|---------|------|----------|-----------|------------------|
| id      | name | usd_flag | salary    |                  |
| 5       | Wang | M        | 12,000.22 |                  |

/Fiber/default/TABLE/workers\_info 1,27 / 27

Query 1 of 1, Rows read: 1, Elapsed time (seconds) - Total: 0.25, SQL query: 0.204, Reading results: 0.046

Please try out the Tools popup by hitting ctrl+t in the SQL Editor. Do it three times to stop this message.

Logs: Errors 60, Warnings 0, Infos 81 134 of 201 MB 0 11:11:44 AM CST

- Spark增加数据

编辑数据文件data\_input.txt，上传至集群的hdfs目录中，例如 `/tmp/` 下，文本内容如下：

```
[root@162-1-93-103 opt]# vi data_input.txt
[root@162-1-93-103 opt]# hdfs dfs -put data_input.txt /tmp
[root@162-1-93-103 opt]# hdfs dfs -cat /tmp/data_input.txt
2,Wang,F,13000.25,china:shanghai,2017
```

编辑脚本，点击 执行 按钮：

```
load data inpath '/tmp/data_input.txt' overwrite into table  
workers_info
```

The screenshot shows the SQuirreL SQL Client interface. The main window has three tabs at the top: '1 - Fiber () as test', '2 - Fiber () as test', and '3 - Fiber () as test'. The '3 - Fiber () as test' tab is active. The toolbar below the tabs contains various icons, including one highlighted with a red box. The main area shows a SQL query editor with the following content:

```
load data inpath '/tmp/data_input.txt' overwrite into table workers_info
```

The results pane shows a single row of data:

| ColumnIndex | getColumnName | getColumnTypeName | getPrecision | getScale |
|-------------|---------------|-------------------|--------------|----------|
| 1           | result        | string            | 2147483647   | 0        |

Below the results pane, a message indicates: "No SQL selected for execution". The status bar at the bottom right shows the date and time: "11:33:11 AM CST".

查看结果：

The screenshot shows the SQuirreL SQL Client interface with the same session tabs and toolbar as the previous screenshot. The SQL query editor now contains:

```
select * from workers_info
```

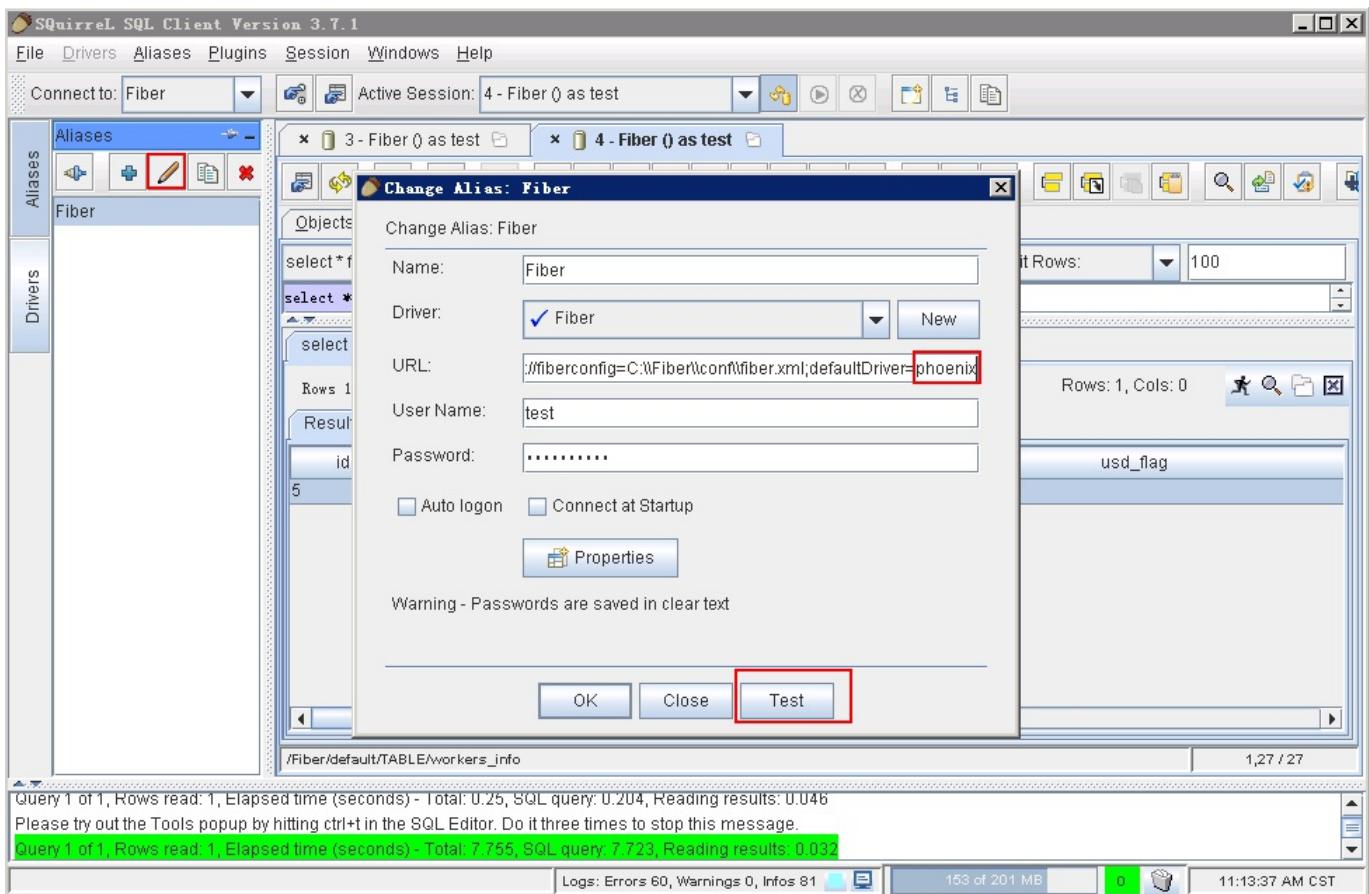
The results pane shows the following data:

| id | name | usd_flag | salary    |
|----|------|----------|-----------|
| 2  | Wang | F        | 13,000.25 |

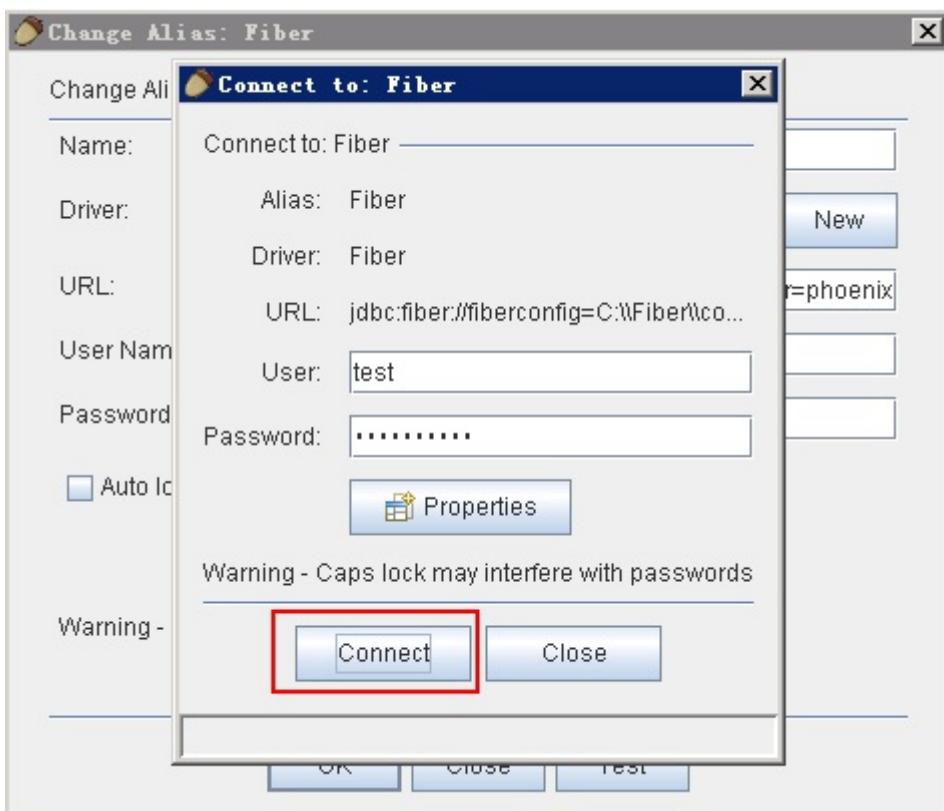
The status bar at the bottom right shows the date and time: "11:33:55 AM CST".

对接Phoenix

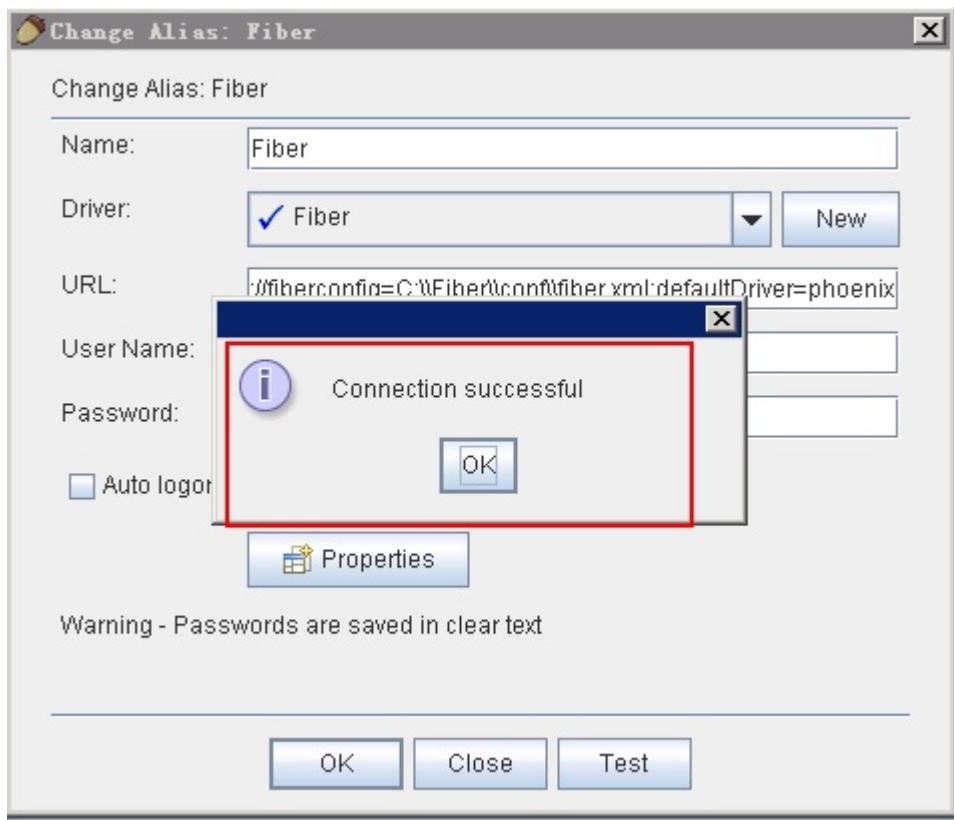
- 将defaultDriver切换为phoenix，点击 **Test**



- 点击 **Connect**



- 连接成功，点击 **OK**



- 双击 Fiber，点击 Connect，将driver切换为phoenix

Aliases

Fiber

Connect to: Fiber

Alias: Fiber  
Driver: Fiber  
URL: jdbc:fiber://fiberconfig=C:\Fiber\conf\fiber.xml/defaultDriver=phoenix  
User: test  
Password: .....

Warning - Caps lock may interfere with passwords

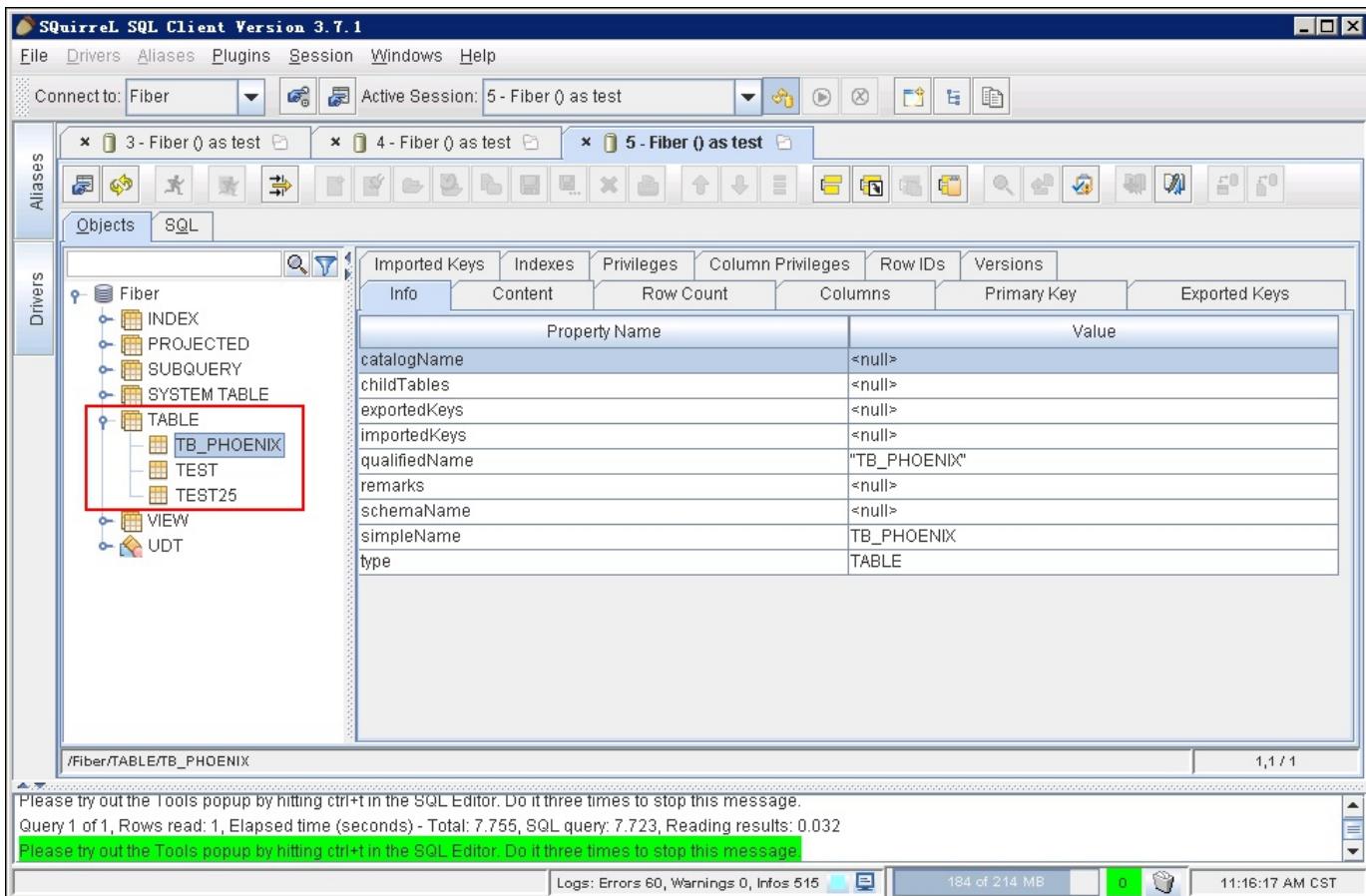
Connect Close

Results

| id | name |
|----|------|
| 5  | Wang |

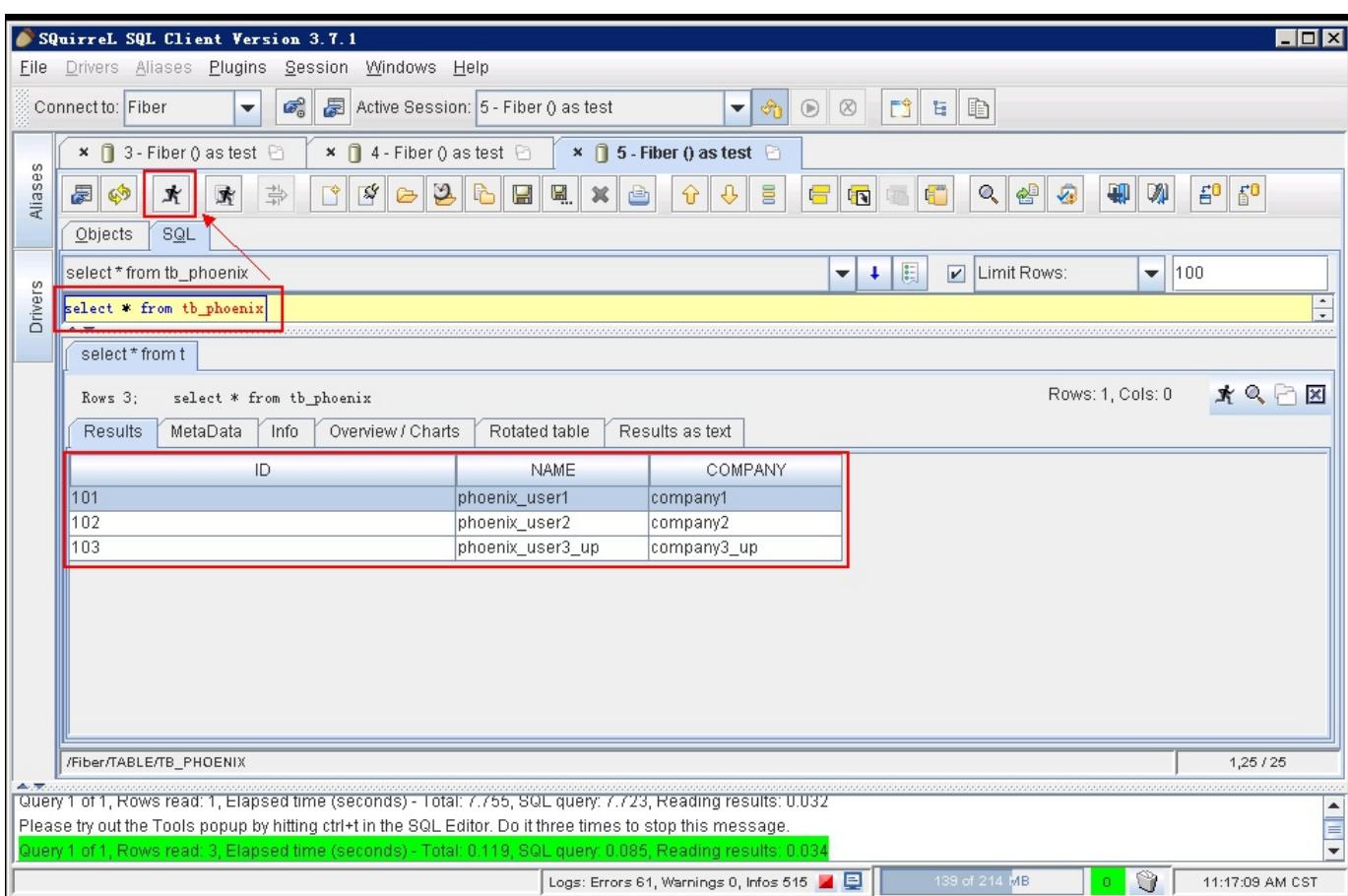
Query 1 of 1, Rows read: 1, Elapsed time (seconds) - Total: 0.25, SQL query: 0.204, Reading results: 0.046  
Please try out the Tools popup by hitting ctrl+t in the SQL Editor. Do it three times to stop this message.  
Query 1 of 1, Rows read: 1, Elapsed time (seconds) - Total: 7.755, SQL query: 7.723, Reading results: 0.032

- 可以看到数据phoenix表



- 点击 **SQL面板**，编辑SQL语句，点击 **执行** 按钮，在下方可以看到查询结果。

```
select * from tb phoenix
```



- 点击 **SQL**面板，编辑SQL语句，向phoenix表中增加一条数据，点击 **执行** 按钮。

```
UPSERT INTO TB_PHOENIX(Id, Name, Company) values (108, 'phoenix_user8', 'company8')
```

SQuirreL SQL Client Version 3.7.1

File Drivers Aliases Plugins Session Windows Help

Connect to: Fiber Active Session: 1 - Fiber () as test

Aliases

Fiber

SQL

UPDATER INTO TB\_PHOENIX(Id, Name, Company) values (109, 'phoenix\_user9', 'company9')

select \* from tb\_phoenix

| ID  | NAME             | COMPANY     |
|-----|------------------|-------------|
| 101 | phoenix_user1    | company1    |
| 102 | phoenix_user2    | company2    |
| 103 | phoenix_user3_up | company3_up |
| 104 | phoenix_user4    | company4    |
| 105 | phoenix_user5    | company5    |
| 106 | phoenix_user6    | company6    |
| 107 | phoenix_user7    | company7    |
| 108 | phoenix_user8    | company8    |
| 109 | phoenix_user9    | company9    |

Query 1 of 1, Rows read: 8, Elapsed time (seconds) - Total: 0.031, SQL query: 0, Reading results: 0.031

Query 1 of 1, Rows read: 0, Elapsed time (seconds) - Total: 0.047, SQL query: 0.047, Reading results: 0

Logs: Errors 1, Warnings 0, Infos 234 48 of 70 MB 0 10:55:29 AM CST

- 查询结果:

File Drivers Aliases Plugins Session Windows Help

Connect to: Fiber Active Session: 1 - Fiber () as test

Aliases

Fiber

SQL

select \* from tb\_phoenix

select \* from tb\_phoenix

select \* from t

Rows 9; select \* from tb\_phoenix

| ID  | NAME             | COMPANY     |
|-----|------------------|-------------|
| 101 | phoenix_user1    | company1    |
| 102 | phoenix_user2    | company2    |
| 103 | phoenix_user3_up | company3_up |
| 104 | phoenix_user4    | company4    |
| 105 | phoenix_user5    | company5    |
| 106 | phoenix_user6    | company6    |
| 107 | phoenix_user7    | company7    |
| 108 | phoenix_user8    | company8    |
| 109 | phoenix_user9    | company9    |

Query 1 of 1, Rows read: 0, Elapsed time (seconds) - Total: 0.047, SQL query: 0.047, Reading results: 0

Query 1 of 1, Rows read: 9, Elapsed time (seconds) - Total: 0.016, SQL query: 0.016, Reading results: 0

Logs: Errors 1, Warnings 0, Infos 234 53 of 70 MB 0 10:56:08 AM CST

- 点击 **SQL** 面板，编辑SQL语句，删除一条数据，点击 **执行** 按钮。

```
delete from TB_PHOENIX where ID=109;
```

The screenshot shows the SQuirreL SQL Client interface. The top menu bar includes File, Drivers, Aliases, Plugins, Session, Windows, and Help. The 'Aliases' tab is selected in the sidebar. The main window has tabs for 'Aliases' and 'Drivers'. An active session titled '1 - Fiber () as test' is shown. The SQL editor contains the query: `delete from TB_PHOENIX where ID=109;`. Below the editor, a results grid displays data from the 'tb\_phoenix' table, with columns ID, NAME, and COMPANY. The data shows rows from 101 to 109. A message at the bottom indicates '1 Row(s) Deleted'. The status bar at the bottom right shows the date and time as 10:58:10 AM CST.

- 查看结果：

```
select * from tb_phoenix
```

The screenshot shows the SQuirreL SQL Client interface. The top menu bar includes File, Drivers, Aliases, Plugins, Session, Windows, and Help. The 'Aliases' tab is selected in the sidebar. The main window has tabs for 'Aliases' and 'Drivers'. An active session titled '1 - Fiber () as test' is shown. The SQL editor contains the query: `select * from tb_phoenix`. Below the editor, a results grid displays data from the 'tb\_phoenix' table, with columns ID, NAME, and COMPANY. The data shows rows from 101 to 108. A message at the bottom indicates 'Row(s) Deleted'. The status bar at the bottom right shows the date and time as 10:59:37 AM CST.

- 点击 SQL面板，编辑SQL语句，更新一条数据，点击 执行 按钮。

```
UPSERT INTO TB_PHOENIX(Id, Name,Company) values (108,'phoenix_user8_up','company8_up')
```

SQuirreL SQL Client Version 3.7.1

File Drivers Aliases Plugins Session Windows Help

Connect to: Fiber Active Session: 1 - Fiber () as test

Aliases Fiber Drivers

SQL

UPSERT INTO TB\_PHOENIX(Id, Name,Company) values (108,'phoenix\_user8\_up','company8\_up')

select \* from t

Rows 8: select \* from tb\_phoenix Rows: 1, Cols: 0

Results MetaData Info Overview / Charts Rotated table Results as text

| ID  | NAME             | COMPANY     |
|-----|------------------|-------------|
| 101 | phoenix_user1    | company1    |
| 102 | phoenix_user2    | company2    |
| 103 | phoenix_user3_up | company3_up |
| 104 | phoenix_user4    | company4    |
| 105 | phoenix_user5    | company5    |
| 106 | phoenix_user6    | company6    |
| 107 | phoenix_user7    | company7    |
| 108 | phoenix_user8    | company8    |

/Fiber 15,87 / 397

Query 1 of 1, Rows read: 8, Elapsed time (seconds) - Total: 0.031, SQL query: 0.016, Reading results: 0.015

Logs: Errors 1, Warnings 0, Infos 238 40 of 70 MB 0 11:01:41 AM CST

- 查看结果

SQuirreL SQL Client Version 3.7.1

File Drivers Aliases Plugins Session Windows Help

Connect to: Fiber Active Session: 1 - Fiber () as test

Aliases Fiber Drivers

SQL

select \* from tb\_phoenix

select \* from tb\_phoenix

Rows 8: select \* from tb\_phoenix Rows: 1, Cols: 0

Results MetaData Info Overview / Charts Rotated table Results as text

| ID  | NAME             | COMPANY     |
|-----|------------------|-------------|
| 101 | phoenix_user1    | company1    |
| 102 | phoenix_user2    | company2    |
| 103 | phoenix_user3_up | company3_up |
| 104 | phoenix_user4    | company4    |
| 105 | phoenix_user5    | company5    |
| 106 | phoenix_user6    | company6    |
| 107 | phoenix_user7    | company7    |
| 108 | phoenix_user8_up | company8_up |

/Fiber 17,25 / 423

Query 1 of 1, Rows read: 0, Elapsed time (seconds) - Total: 0.062, SQL query: 0.062, Reading results: 0

Query 1 of 1, Rows read: 8, Elapsed time (seconds) - Total: 0.016, SQL query: 0.016, Reading results: 0

Logs: Errors 1, Warnings 0, Infos 238 46 of 70 MB 0 11:02:26 AM CST