



链滴

# Linux 下学习 DB2 命令的笔记

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<p>本笔记接在上一篇 &lt;&lt;<a href="https://ld246.com/forward?goto=http%3A%2F%2Flib.cdn.net%2Fbase%2Flinux" title="Linux知识库" target="\_blank" rel="nofollow ugc">Linux</a> 下安装 DB2 <a href="https://ld246.com/forward?goto=http%3A%2F%2Flib.csdn.net%2Fbase%2Fmysql" title="MySQL知识库" target="\_blank" rel="nofollow ugc">数据库</a>步骤 &gt;&gt;<a href="https://ld246.com/forward?goto=http%3A%2F%2Fblog.csdn.net%2Fsunrier%2Farticle/details%2F7826233" target="\_blank" rel="nofollow ugc">http://blog.csdn.net/sunrier/article/details/7826233</a> ,学习过程中使用下载的官网 DB2 数据库(免费版本)<a href="https://ld246.com/forward?goto=http%3A%2F%2Flib.csdn.net%2Fbase%2Fsoftwaretest" title="软件测试识库" target="\_blank" rel="nofollow ugc">测试</a>的,由于工作中 DB2 是用在项目中的,而且是费的数据库,故我只在项目编程中使用它(即公司的 DB2 数据库收费版本),没用来作为自己测试用。嘿嘿所以下面的大部分操作主要来自下载的官网 DB2 数据库(免费版本)。</p>

<p>DB2 相关数据库命令</p>

<p>1.数据库实例的启动<br>

首先要启动数据库的实例,即切换到 db2inst1 用户(注:db2inst1 用户为当前数据库的实例),然后执行 d2start 启动数据库的实例<br>

```
[root@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltip ed_user" target="_blank">localhost</a> instance]# su - db2inst1<br>
```

```
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped_user" target="_blank">localhost</a> ~]$ db2start<br>
```

```
SQL1063N DB2START processing was successful.<br>
```

```
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped_user" target="_blank">localhost</a> ~]$</p>
```

<p>2.数据库实例的关闭<br>

首先在 db2inst1 用户下强制关闭实例上的所有应用程序,然后再关闭数据库实例<br>

```
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped_user" target="_blank">localhost</a> ~]$ db2 force application all<br>
```

```
DB20000I The FORCE APPLICATION command completed successfully.<br>
```

```
DB21024I This command is asynchronous and may not be effective immediately.</p>
```

```
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class= tooltiped_user" target="_blank">localhost</a> ~]$ db2stop<br>
```

```
SQL1064N DB2STOP processing was successful.<br>
```

```
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped_user" target="_blank">localhost</a> ~]$</p>
```

<p>强制停止<br>

```
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped_user" target="_blank">localhost</a> DB2]$ db2stop force<br>
```

```
SQL1064N DB2STOP processing was successful.<br>
```

```
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped_user" target="_blank">localhost</a> DB2]$</p>
```

<p>3.显示所有的实例<br>

```
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped_user" target="_blank">localhost</a> ~]$ db2ilist<br>
```

```
db2inst1<br>
```

```
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped_user" target="_blank">localhost</a> ~]$</p>
```

<p>4.显示当前的实例<br>

```
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped_user" target="_blank">localhost</a> ~]$ db2 get instance</p>
```

```
<p>The current database manager instance is: db2inst1</p>
```

```
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class= tooltiped_user" target="_blank">localhost</a> ~]$</p>
```

<p>5.删除一个实例(注:需切换到 root 用户权限下)<br>

```
[root@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltip ed_user" target="_blank">localhost</a> ~]# cd /opt/ibm/db2/V9.7/instance<br>
```

```

[root@localhost instance]# pwd
/opt/ibm/db2/V9.7/instance
[root@localhost instance]# ./db2idrop db2inst1
DBI1070I Program db2idrop completed successfully.
[root@localhost instance]#
6.列出当前实例中有哪些数据库
[root@localhost instance]# su - db2inst1
[db2inst1@localhost ~]$ db2 list db directory
SQL1031N The database directory cannot be found on the indicated file system.
SQLSTATE=58031
[db2inst1@localhost ~]$
注:上面信息说明实例中没有数据库
7.创建数据库
[root@localhost instance]# su - db2inst1
[db2inst1@localhost ~]$ db2 create database test
SQL1032N No start database manager command was issued. SQLSTATE=57019
[db2inst1@localhost ~]$
[db2inst1@localhost ~]$ db2start
SQL5043N Support for one or more communications protocols failed to start successfully. However, core database manager functionality started successfully.
[db2inst1@localhost ~]$ db2 create database test
DB20000I The CREATE DATABASE command completed successfully.
[db2inst1@localhost ~]$ db2 list db directory
System Database Directory
Number of entries in the directory = 1
Database 1 entry:
Database alias          = TEST
Database name          = TEST
Local database directory = /home/db2inst1
Database release level  = d.00
Comment                =
Directory entry type    = Indirect
Catalog database partition number = 0
Alternate server hostname =
Alternate server port number =
[db2inst1@localhost ~]$
注:上面通过创建一个 test 的数据库,并说明了创建数据库时,要先启动数据库,然后创建数据库 test 成功后并列出了当前实例中的所有数据库,只存在数据库 test
使用 UTF-8 编码
db2 create database test on '/home/db2inst1' using codeset UTF-8 territory CN
on '/home/db2inst1' 表示数据库路径

```

一般情况下'/home/db2inst1'为默认数据库路径

<p>8.连接数据库<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped\_user" target="\_blank">localhost</a> ~]\$ db2 connect to test</p>

<p>Database Connection Information</p>

<p>Database server = DB2/LINUX 9.7.1<br>

SQL authorization ID = DB2INST1<br>

Local database alias = TEST</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]\$</p>

<p>注:用密码情况下格式[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]\$ db2 connect to test user username using password</p>

<p>db2 connect to user using</p>

<p>9.列出当前实例中所有激活的数据库<br>

[root@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]# su - db2inst1<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped\_user" target="\_blank">localhost</a> ~]\$ db2 list active databases<br>

SQL1032N No start database manager command was issued. SQLSTATE=57019<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped\_user" target="\_blank">localhost</a> ~]\$ db2 list db directory</p>

<p>System Database Directory</p>

<p>Number of entries in the directory = 1</p>

<p>Database 1 entry:</p>

<p>Database alias = TEST<br>

Database name = TEST<br>

Local database directory = /home/db2inst1<br>

Database release level = d.00<br>

Comment =<br>

Directory entry type = Indirect<br>

Catalog database partition number = 0<br>

Alternate server hostname =<br>

Alternate server port number =</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]\$ db2start<br>

SQL1026N The database manager is already active.<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped\_user" target="\_blank">localhost</a> ~]\$ db2 list active databases<br>

SQL1611W No data was returned by Database System Monitor.<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped\_user" target="\_blank">localhost</a> ~]\$ db2 connect to test</p>

<p>Database Connection Information</p>

<p>Database server = DB2/LINUX 9.7.1<br>

SQL authorization ID = DB2INST1<br>

Local database alias = TEST</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]\$ db2 list active databases</p>

<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">

</span></span></code></pre>

<p>Database name = TEST<br>

Applications connected currently = 1<br>

Database path = /home/db2inst1/db2inst1/NODE0000/SQL00001/</p>

```

[db2inst1@localhost ~]$
注:可以看出查看当前激活的数据库为已经启动后连接的数据库
10.查看表的空间
[db2inst1@localhost ~]$ db2 list tablespaces [ show detail ]


```

Tablespaces for Current Database
Tablespace ID          = 0
Name                   = SYSCATSPACE
Type                   = Database managed space
Contents               = All permanent data. Regular table space.
State                  = 0x0000
Detailed explanation:
Normal
Tablespace ID          = 1
Name                   = TEMPSPACE1
Type                   = System managed space
Contents               = System Temporary data
State                  = 0x0000
Detailed explanation:
Normal
Tablespace ID          = 2
Name                   = USERSPACE1
Type                   = Database managed space
Contents               = All permanent data. Large table space.
State                  = 0x0000
Detailed explanation:
Normal
[db2inst1@localhost ~]$
注: show detail 为可选项,显示更详细信息
或者 db2pd -tablespaces -db 数据库名
[db2inst1@localhost ~]$ db2pd -tablespaces -db test
Database Partition 0 -- Database TEST -- Active -- Up 0 days 00:03:11
Tablespace Configuration:
Address  Id  Type Content PageSz ExtentSz Auto Prefetch BufID BufIDDisk FSC NumCntrs
axStripe LastConsecPg Name
0x9DC2A060 0  DMS Regular 4096 4      Yes 4      1  1      Off 1      0      3
YSCATSPACE
0x9DC2B4B0 1  SMS SysTmp 4096 32     Yes 32     1  1      On  1      0      31
TEMPSPACE1
0x9DC30940 2  DMS Large  4096 32     Yes 32     1  1      Off 1      0      31
USERSPACE1
Tablespace Statistics:
Address  Id  TotalPgs UsablePgs UsedPgs  PndFreePgs FreePgs  HWM  Max HWM
State   MinRecTime NQuiescers PathsDropped
0x9DC2A060 0  24576  24572  18712  0      5860  18712  18712  0x0000000
0 0      0      No
0x9DC2B4B0 1  1      1      1      0      0      0      0x00000000 0  0
No
0x9DC30940 2  8192  8160  96     0      8064  96     96     0x00000000 0

```


```

```

0      No</p>
<p>Tablespace Autoresize Statistics:<br>
Address Id AS AR InitSize IncSize IIP MaxSize LastResize LRF<br>
0x9DC2A060 0 Yes Yes 33554432 -1 No None None No<br>
0x9DC2B4B0 1 Yes No 0 0 No 0 None None No<br>
0x9DC30940 2 Yes Yes 33554432 -1 No None None No</p>
<p>Containers:<br>
Address TspId ContainNum Type TotalPgs UseablePgs PathID StripeSet <a href="http://ld246.com/forward?goto=http%3A%2F%2Flib.csdn.net%2Fbase%2Fdocker" title="Dock
识库" target="_blank" rel="nofollow ugc">Container</a><br>
0x9B218F00 0 0 File 24576 24572 0 0 /home/db2inst1/db2inst1/N
DE0000/TEST/T0000000/C0000000.CAT<br>
0x9B219120 1 0 Path 1 1 0 0 /home/db2inst1/db2inst1/NOD
0000/TEST/T0000001/C0000000.TMP<br>
0x9B219390 2 0 File 8192 8160 0 0 /home/db2inst1/db2inst1/N
DE0000/TEST/T0000002/C0000000.LRG<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$</p>
<p>11.列出数据库中所有用户表<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 connect to test</p>
<p>Database Connection Information</p>
<p>Database server = DB2/LINUX 9.7.1<br>
SQL authorization ID = DB2INST1<br>
Local database alias = TEST</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ db2 list tables</p>
<p>Table/View Schema Type Creation time</p>
<hr>
<p>0 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$</p>
<p>注:上面信息说明数据库 test 中还没有表</p>
<p>12.在数据库 test 中创建表 student<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 connect to test</p>
<p>Database Connection Information</p>
<p>Database server = DB2/LINUX 9.7.1<br>
SQL authorization ID = DB2INST1<br>
Local database alias = TEST</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ db2 "create table student (id int,fname
archar(30),age int)"<br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 list tables</p>
<p>Table/View Schema Type Creation time</p>
<hr>
<p>STUDENT DB2INST1 T 2012-08-06-14.38.33.456768</p>
<p>1 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$</p>
<p>13.向表 student 中添加数据信息<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too

```

```

tipped__user" target="_blank">localhost</a> ~]$ db2 "insert into student values (1,'Tom',22)
<br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 "insert into student values (2,'Jack',21)
<br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 "insert into student values (3,'Sunrier',
5)"<br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$</p>
<p>14.显示表 student 所有的信息<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 "select * from student"</p>
<p>ID          FNAME          AGE</p>
<hr>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">  1 Tom                22
</span></span><span class="highlight-line"><span class="highlight-cl">  2 Jack
                21
</span></span><span class="highlight-line"><span class="highlight-cl">  3 Sunrier
                25
</span></span></code></pre>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$</p>
<p>15.更改表 student 中的数据(如将 Sunrier 的年龄改为 22)<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 "select * from student"</p>
<p>ID          FNAME          AGE</p>
<hr>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">  1 Tom                22
</span></span><span class="highlight-line"><span class="highlight-cl">  2 Jack
                21
</span></span><span class="highlight-line"><span class="highlight-cl">  3 Sunrier
                25
</span></span></code></pre>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 "update student set age=22 where
fname='Sunrier'"<br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 "select * from student"</p>
<p>ID          FNAME          AGE</p>
<hr>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">  1 Tom                22
</span></span><span class="highlight-line"><span class="highlight-cl">  2 Jack
                21
</span></span><span class="highlight-line"><span class="highlight-cl">  3 Sunrier
                25
</span></span></code></pre>

```

```

</span></span></code></pre>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ </p>
<p>16.查看表 student 结构</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ db2 describe table student</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">
                Data type          Column
</span></span></code></pre>
<p>Column name          schema  Data type name    Length  Scale Nulls</p>
<hr>
<p>ID                    SYSIBM  INTEGER           4      0 Yes<br>
FNAME                  SYSIBM  VARCHAR           30     0 Yes<br>
AGE                    SYSIBM  INTEGER           4      0 Yes</p>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ </p>
<p>或<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 "describe select * from student" </p>
<p>Column Information</p>
<p>Number of columns: 3</p>
<p>SQL type          Type length Column name          Name length</p>
<hr>
<p>497  INTEGER           4  ID                    2<br>
449  VARCHAR            30 FNAME                  5<br>
497  INTEGER           4  AGE                    3</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ </p>
<p>或<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 "describe select * from db2inst1.stude
t" </p>
<p>Column Information</p>
<p>Number of columns: 3</p>
<p>SQL type          Type length Column name          Name length</p>
<hr>
<p>497  INTEGER           4  ID                    2<br>
449  VARCHAR            30 FNAME                  5<br>
497  INTEGER           4  AGE                    3</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ </p>
<p>17.创建一个新表(如 people)与数据库中某个表(如 student)结构相同<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 list tables</p>
<p>Table/View          Schema      Type Creation time</p>
<hr>
<p>STUDENT             DB2INST1   T    2012-08-06-15.26.17.189538</p>
<p>1 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ db2 describe table student</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight

```



```

cl">          Data type          Column
</span></span></code></pre>
<p>Column name          schema  Data type name  Length  Scale Nulls</p>
<hr>
<p>ID                    SYSIBM  INTEGER          4    0 Yes<br>
FNAME                  SYSIBM  VARCHAR          30   0 Yes<br>
AGE                    SYSIBM  INTEGER          4    0 Yes</p>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 "select * from student" </p>
<p>ID          FNAME          AGE</p>
<hr>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">    1 Tom                22
</span></span><span class="highlight-line"><span class="highlight-cl">    2 Jack
    21
</span></span><span class="highlight-line"><span class="highlight-cl">    3 Sunier
    25
</span></span></code></pre>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 create table people like student<b
>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 list tables</p>
<p>Table/View          Schema          Type  Creation time</p>
<hr>
<p>PEOPLE              DB2INST1      T    2012-08-16-15.13.49.396370<br>
STUDENT              DB2INST1      T    2012-08-06-15.26.17.189538</p>
<p>2 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 describe table people</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">          Data type          Column
</span></span></code></pre>
<p>Column name          schema  Data type name  Length  Scale Nulls</p>
<hr>
<p>ID                    SYSIBM  INTEGER          4    0 Yes<br>
FNAME                  SYSIBM  VARCHAR          30   0 Yes<br>
AGE                    SYSIBM  INTEGER          4    0 Yes</p>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ </p>
<p>18.两个结构相同的表,将原来数据库中某个表(如 student)的数据导入与它相同结构的新表(如 pe
ple)中<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 list tables</p>
<p>Table/View          Schema          Type  Creation time</p>
<hr>
<p>PEOPLE              DB2INST1      T    2012-08-16-15.13.49.396370<br>
STUDENT              DB2INST1      T    2012-08-06-15.26.17.189538</p>
<p>2 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=

```

```

tooltipped__user" target="_blank">localhost</a> ~]$ db2 describe table student</pre>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">
          Data type          Column
</span> </span> </code> </pre>
<p>Column name          schema  Data type name  Length  Scale Nulls</p>
<hr>
<p>ID                    SYSIBM  INTEGER          4    0 Yes<br>
FNAME                   SYSIBM  VARCHAR          30   0 Yes<br>
AGE                     SYSIBM  INTEGER          4    0 Yes</p>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 describe table people</pre>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">
          Data type          Column
</span> </span> </code> </pre>
<p>Column name          schema  Data type name  Length  Scale Nulls</p>
<hr>
<p>ID                    SYSIBM  INTEGER          4    0 Yes<br>
FNAME                   SYSIBM  VARCHAR          30   0 Yes<br>
AGE                     SYSIBM  INTEGER          4    0 Yes</p>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 "select * from student"</pre>
<p>ID      FNAME          AGE</p>
<hr>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">  1 Tom                22
</span> </span> <span class="highlight-line"> <span class="highlight-cl">      2 Jack
      21
</span> </span> <span class="highlight-line"> <span class="highlight-cl">      3 Sunrier
      25
</span> </span> </code> </pre>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 "select * from people"</pre>
<p>ID      FNAME          AGE</p>
<hr>
<p>0 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 "insert into people select * from st
dent"<br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 "select * from people"</pre>
<p>ID      FNAME          AGE</p>
<hr>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">  1 Tom                22
</span> </span> <span class="highlight-line"> <span class="highlight-cl">      2 Jack
      21
</span> </span> <span class="highlight-line"> <span class="highlight-cl">      3 Sunrier
      25
</span> </span> </code> </pre>
<p>3 record(s) selected.</p>

```

```

[db2inst1@localhost ~]$
19.修改一个表的字段类型(如表 people 中的 fname 字段把 varchar(30)改为 varchar(28))
[db2inst1@localhost ~]$ db2 describe table people


```

      Data type          Column
Column name          schema Data type name      Length  Scale Nulls
-----
ID                   SYSIBM  INTEGER             4      0 Yes
FNNAME               SYSIBM  VARCHAR             30     0 Yes
AGE                  SYSIBM  INTEGER             4      0 Yes
3 record(s) selected.
[db2inst1@localhost ~]$ db2 "select * from people"


```

      Data type          Column
Column name          schema Data type name      Length  Scale Nulls
-----
ID                   SYSIBM  INTEGER             4      0 Yes
FNNAME               SYSIBM  VARCHAR             30     0 Yes
AGE                  SYSIBM  INTEGER             4      0 Yes
3 record(s) selected.
[db2inst1@localhost ~]$ db2 "alter table people alter column fn
me set data type varchar(28)"
DB20000I The SQL command completed successfully.
[db2inst1@localhost ~]$ db2 describe table people


```

      Data type          Column
Column name          schema Data type name      Length  Scale Nulls
-----
ID                   SYSIBM  INTEGER             4      0 Yes
FNNAME               SYSIBM  VARCHAR             28     0 Yes
AGE                  SYSIBM  INTEGER             4      0 Yes
3 record(s) selected.
[db2inst1@localhost ~]$ db2 "select * from people"


```

      Data type          Column
Column name          schema Data type name      Length  Scale Nulls
-----
ID                   SYSIBM  INTEGER             4      0 Yes
FNNAME               SYSIBM  VARCHAR             28     0 Yes
AGE                  SYSIBM  INTEGER             4      0 Yes
3 record(s) selected.
[db2inst1@localhost ~]$

```


```


```


```


```

tooltipped\_\_user" target="\_blank">localhost</a> ~]\$</p>  
<p>格式:db2 "alter table alter column set data type "<br>  
tablename:表名<br>  
columnname:字段名<br>  
datatype:字段类型</p>

<p>注:<br>  
一般更改字段类型是有操作限制的. 将字段改为比之前类型长度大的可以;如果要改小,必须先 drop 掉来的 column,然后再重新添加.<br>

虽然我上面的执行成功了,可能是因为我用的官方免费版本的,如果遇到把长度大的改为小的无法执行,用 drop,再重新添加</p>

<p>20.向一个表添加字段(如向表 people 中添加备注信息字段 notes;向表 people 中添加分数字段 score)<br>

格式:db2 "alter table add "<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 describe table people</p>

```
<code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">
                Data type          Column
</span></span></code></pre>
```

<p>Column name schema Data type name Length Scale Nulls</p>  
<hr>

<p>ID SYSIBM INTEGER 4 0 Yes<br>  
FNAME SYSIBM VARCHAR 30 0 Yes<br>  
AGE SYSIBM INTEGER 4 0 Yes</p>

<p>3 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 "select \* from people"</p>

<p>ID FNAME AGE</p>

<hr>

```
<code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">
  1 Tom                22
</span></span><span class="highlight-line"><span class="highlight-cl">
  2 Jack
  21
</span></span><span class="highlight-line"><span class="highlight-cl">
  3 Sunier
  25
</span></span></code></pre>
```

</span></span></code></pre>

<p>3 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 "alter table people add notes varchar(100)"<br>

DB20000I The SQL command completed successfully.<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 describe table people</p>

```
<code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">
                Data type          Column
</span></span></code></pre>
```

<p>Column name schema Data type name Length Scale Nulls</p>  
<hr>

<p>ID SYSIBM INTEGER 4 0 Yes<br>  
FNAME SYSIBM VARCHAR 36 0 Yes<br>  
AGE SYSIBM INTEGER 4 0 Yes<br>  
NOTES SYSIBM VARCHAR 100 0 Yes</p>

<p>4 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 "select \* from people"</p>

```

<p>ID      FNAME      AGE      NOTES</p>
<hr>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> 1 Tom
      22 -

</span> </span> <span class="highlight-line"> <span class="highlight-cl"> 2 Jack
      21 -

</span> </span> <span class="highlight-line"> <span class="highlight-cl"> 3 Sunrier
      25 -

</span> </span> </code> </pre>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 "alter table people add score integ
r" <br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 describe table people</p>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl">
      Data type      Column
</span> </span> </code> </pre>
<p>Column name      schema  Data type name  Length  Scale Nulls</p>
<hr>
<p>ID                SYSIBM  INTEGER         4      0 Yes<br>
FNAME              SYSIBM  VARCHAR         36     0 Yes<br>
AGE                SYSIBM  INTEGER         4      0 Yes<br>
NOTES              SYSIBM  VARCHAR        100    0 Yes<br>
SCORE              SYSIBM  INTEGER         4      0 Yes</p>
<p>5 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 "select * from people" </p>
<p>ID      FNAME      AGE      NOTES      SCORE</p>
<hr>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> 1 Tom
      22 -

-

</span> </span> <span class="highlight-line"> <span class="highlight-cl"> 2 Jack
      21 -

-

</span> </span> <span class="highlight-line"> <span class="highlight-cl"> 3 Sunrier
      25 -

-

</span> </span> </code> </pre>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ </p>
<p>21.删除表中的某个字段(如删除表 people 中的字段 score)<br>
格式:db2 "alter table drop column " <br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 describe table people</p>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl">
      Data type      Column
</span> </span> </code> </pre>
<p>Column name      schema  Data type name  Length  Scale Nulls</p>
<hr>
<p>ID                SYSIBM  INTEGER         4      0 Yes<br>
FNAME              SYSIBM  VARCHAR         36     0 Yes<br>

```

```

AGE          SYSIBM  INTEGER          4   0 Yes<br>
NOTES       SYSIBM  VARCHAR         100  0 Yes<br>
SCORE       SYSIBM  INTEGER          4   0 Yes</p>

```

<p>5 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 "select \* from people" </p>

```

<p>ID        FNAME        AGE        NOTES        SCORE</p>

```

<hr>

```

<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">    1 Tom                22 -

```

-

```

</span> </span> <span class="highlight-line"> <span class="highlight-cl">    2 Jack
    21 -

```

```

</span> </span> <span class="highlight-line"> <span class="highlight-cl">    3 Sunrier
    25 -

```

```

</span> </span> </code> </pre>

```

<p>3 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 "alter table people drop column s
core" <br>

DB20000I The SQL command completed successfully.<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 describe table people</p>

```

<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">

```

```

</span> </span> </code> </pre>

```

```

<p>Column name          schema  Data type name  Length  Scale Nulls</p>

```

<hr>

```

<p>ID          SYSIBM  INTEGER          4   0 Yes<br>
FNAME        SYSIBM  VARCHAR         36  0 Yes<br>
AGE          SYSIBM  INTEGER          4   0 Yes<br>
NOTES       SYSIBM  VARCHAR         100  0 Yes</p>

```

<p>4 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 "select \* from people" </p>

```

<p>ID        FNAME        AGE        NOTES</p>

```

<hr>

```

<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">    1 Tom                22 -

```

```

</span> </span> <span class="highlight-line"> <span class="highlight-cl">    2 Jack
    21 -

```

```

</span> </span> <span class="highlight-line"> <span class="highlight-cl">    3 Sunrier
    25 -

```

```

</span> </span> </code> </pre>

```

<p>3 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped\_\_user" target=" blank">localhost</a> ~]\$ </p>

<p>注:如果 drop 掉字段之后,可能会导致表查询/插入操作不能执行,则需要执行一下 reorg 命令,优化

格式如 db2 reorg table<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 reorg table people<br>

DB20000I The REORG command completed successfully.<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost~/]\$</p>
<p>22.给表中添加带默认值的字段(如向表 people 中添加分数字段 score,默认设置为 90)<br>
格式:db2 "alter table add column not null with default "<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost~/]\$ db2 describe table people</p>

```
<code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">
          Data type          Column
</span></span></code></pre>
<p>Column name          schema  Data type name    Length  Scale Nulls</p>
<hr>
<p>ID                    SYSIBM  INTEGER           4      0 Yes<br>
FNAME                  SYSIBM  VARCHAR           36     0 Yes<br>
AGE                    SYSIBM  INTEGER           4      0 Yes<br>
NOTES                  SYSIBM  VARCHAR           100    0 Yes</p>
<p>4 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped_user" target="_blank">localhost~/]$ db2 "select * from people"</p>
<p>ID      FNAME      AGE      NOTES</p>
<hr>


```
<code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">
  1 Tom          22 -
</span></span><span class="highlight-line"><span class="highlight-cl">    2 Jack
  21 -
</span></span><span class="highlight-line"><span class="highlight-cl">    3 Sunier
  25 -
</span></span></code></pre>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped_user" target="_blank">localhost~/]$ db2 "alter table people add column score interger not null with default 90"<br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped_user" target="_blank">localhost~/]$ db2 describe table people</p>


```
<code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">
          Data type          Column
</span></span></code></pre>
<p>Column name          schema  Data type name    Length  Scale Nulls</p>
<hr>
<p>ID                    SYSIBM  INTEGER           4      0 Yes<br>
FNAME                  SYSIBM  VARCHAR           36     0 Yes<br>
AGE                    SYSIBM  INTEGER           4      0 Yes<br>
NOTES                  SYSIBM  VARCHAR           100    0 Yes<br>
SCORE                  SYSIBM  INTEGER           4      0 No</p>
<p>5 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped_user" target="_blank">localhost~/]$ db2 "select * from people"</p>
<p>ID      FNAME      AGE      NOTES
          SCORE</p>
<hr>


```
<code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">
  1 Tom          22 -
          90
</span></span><span class="highlight-line"><span class="highlight-cl">    2 Jack
</span></span></code></pre>
```


```


```


```

</span></span><span class="highlight-line"><span class="highlight-cl"> 3 Sunrier

25 -

90

</span></span></code></pre>

<p>3 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]\$</p>

<p>例 1.向表 people 中添加地址字段 address 默认设置为 shanghai<br>

db2 "alter table people add column address varchar(30) not null with default 'ShangHai'"</p>

<p>例 2.将表 people 中地址字段 address 默认设置改为当前时间<br>

db2 "alter table people alter column address set default current date"<br>

格式:db2 "alter table alter column set default "</p>

<p>23.列出数据库中用户表<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]\$ db2 list tables for user</p>

<p>Table/View Schema Type Creation time</p>

<hr>

<p>STUDENT DB2INST1 T 2012-08-06-15.26.17.189538</p>

<p>1 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]\$</p>

<p>24.列出数据库中所有系统表<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]\$ db2 list tables for system</p>

<p>Table/View Schema Type Creation time</p>

<hr>

<p>ATTRIBUTES SYSCAT V 2012-08-06-14.20.49.182036<br>

AUDITPOLICIES SYSCAT V 2012-08-06-14.20.49.237474<br>

AUDITUSE SYSCAT V 2012-08-06-14.20.49.243535<br>

BUFFERPOOLDBPARTITIONS SYSCAT V 2012-08-06-14.20.49.264336<br>

BUFFERPOOLNODES SYSCAT V 2012-08-06-14.20.49.277662<br>

BUFFERPOOLS SYSCAT V 2012-08-06-14.20.49.281563<br>

CASTFUNCTIONS SYSCAT V 2012-08-06-14.20.49.309007<br>

CHECKS SYSCAT V 2012-08-06-14.20.49.314078<br>

.....<br>

.....<br>

.....<br>

.....<br>

.....<br>

.....<br>

ROUTINES SYSSTAT V 2012-08-06-14.20.52.502569<br>

TABLES SYSSTAT V 2012-08-06-14.20.52.510027<br>

HMON\_ATM\_INFO SYSTOOLS T 2012-08-06-14.35.41.029633<br>

HMON\_COLLECTION SYSTOOLS T 2012-08-06-14.35.41.208925<br>

POLICY SYSTOOLS T 2012-08-06-14.35.40.156347</p>

<p>396 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]\$</p>

<p>25.列出数据库中所有表<br>

[root@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]# su - db2inst1<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltipped\_user" target="\_blank">localhost</a> ~]\$ db2start<br>





<p>Database Connection Information</p>

<p>Database server = DB2/LINUX 9.7.1<br>

SQL authorization ID = DB2INST1<br>

Local database alias = TEST</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=tooltipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 list tables for schema db2inst1</p>

<p>Table/View Schema Type Creation time</p>

<hr>

<p>STUDENT DB2INST1 T 2012-08-06-15.26.17.189538</p>

<p>1 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=tooltipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 list tables for schema db2inst2</p>

<p>Table/View Schema Type Creation time</p>

<hr>

<p>0 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=tooltipped\_\_user" target="\_blank">localhost</a> ~]\$<br>

格式: db2 list tables for schema<br>

注:符号 &lt;&gt; 表示必选项</p>

<p>27.删除表中的数据:<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 delete from student where id=3<br>

DB20000I The SQL command completed successfully.<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 "select \* from student"</p>

<p>ID FNAME AGE</p>

<hr>

<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight cl"> 1 Tom 22

</span></span><span class="highlight-line"><span class="highlight-cl"> 2 Jack

21

</span></span></code></pre>

<p>2 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=tooltipped\_\_user" target="\_blank">localhost</a> ~]\$</p>

<p>28.删除一个数据库中的某个表<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 drop table student<br>

DB20000I The SQL command completed successfully.<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 list tables</p>

<p>Table/View Schema Type Creation time</p>

<hr>

<p>0 record(s) selected.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=tooltipped\_\_user" target="\_blank">localhost</a> ~]\$</p>

<p>29.删除一个数据库 test<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too tipped\_\_user" target="\_blank">localhost</a> ~]\$ db2 list db directory</p>

<p>System Database Directory</p>

<p>Number of entries in the directory = 1</p>

<p>Database 1 entry:</p>

```

Database alias          = TEST<br>
Database name          = TEST<br>
Local database directory = /home/db2inst1<br>
Database release level  = d.00<br>
Comment                = <br>
Directory entry type    = Indirect<br>
Catalog database partition number = 0<br>
Alternate server hostname = <br>
Alternate server port number = <br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 drop db test<br>
SQL1035N The database is currently in use. SQLSTATE=57019<br>
SQL1025N The database manager was not stopped because databases are still active.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 connect reset<br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 drop db test<br>
DB20000I The DROP DATABASE command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 list db directory<br>
SQL1057W The system database directory is empty. SQLSTATE=01606<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ <br>
注:删除数据库首先要断开数据库的连接</p>
<p>30.显示当前数据库连接有哪些应用程序<br>
[root@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltip
ed_user" target="_blank">localhost</a> ~]# su - db2inst1<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> DB2]$ db2 list application<br>
SQL1611W No data was returned by Database System Monitor.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> DB2]$ db2 connect to test</p>
<p>Database Connection Information</p>
<p>Database server      = DB2/LINUX 9.7.1<br>
SQL authorization ID  = DB2INST1<br>
Local database alias  = TEST</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> DB2]$ db2 list application</p>
<p>Auth Id  Application  Appl.  Application Id          DB  # of<
r>
Name      Handle                Name  Agents</p>
<hr>
<p>DB2INST1 db2bp      35      *LOCAL.db2inst1.120807014245      TES
1</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target=" blank">localhost</a> DB2]$ </p>
<p>31.查看 DB2 全部受支持的注册表变量列表<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> DB2]$ db2set -lr<br>
DB2_OVERRIDE_BPF<br>
DB2_PARALLEL_IO<br>
DB2ACCOUNT<br>
DB2ADMINSERVER<br>

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DB2BQTIME<br>
DB2BQTRY<br>
.....<br>
.....<br>
.....<br>
.....<br>
.....<br>
.....<br>
.....<br>
DB2TCP_CLIENT_KEEPALIVE_TIMEOUT<br>
DB2_PMODEL_SETTINGS<br>
DB2_PMAP_COMPATIBILITY<br>
DB2_HADR_ROS<br>
DB2_STANDBY_ISO<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> DB2]$</p>
<p>32.更改 DB2 UDB 注册表变量的值<br>
db2set registry_variable_name=new_value<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2set DB2COMM=TCPIP<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$</p>
<p>33.查看在服务器上已经设置的所有 DB2 概要文件注册表<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> DB2]$ db2set -all<br>
[i] DB2PROCESSORS=0<br>
[i] DB2COMM=TCPIP<br>
[i] DB2AUTOSTART=YES<br>
[g] DB2SYSTEM=localhost.localdomain<br>
[g] DB2INSTDEF=db2inst1<br>
[g] DB2ADMINSERVER=db2dasusr1<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> DB2]$</p>
<p>34.导出表中的数据</p>
<p>以 DEL 格式导出<br>
db2 "export to teacher.txt of del select * from teacher"<br>
db2 "export to teacher_bak.txt of del modified by coldel| select * from teacher"<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ ls<br>
db2inst1 sqllib Sunrier teacher.sql TEST.0.db2inst1.NODE0000.CATN0000.20120817103306.
01<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 "export to teacher.txt of del select * fr
m teacher"<br>
SQL3104N The Export utility is beginning to export data to file<br>
"teacher.txt".</p>
<p>SQL3105N The Export utility has finished exporting "2" rows.</p>
<p>Number of rows exported: 2</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ ls<br>
db2inst1 sqllib Sunrier teacher.sql teacher.txt TEST.0.db2inst1.NODE0000.CATN0000.2012
817103306.001<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ cat teacher.txt<br>
1,"Lory","上海徐汇中学",19780806<br>

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2,"Sunrier","田林中学",19880627<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$</p>
<p>字段之间默认分隔符号为逗号,下面使用'|'分割<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ db2 "export to teacher_bak.txt of del modified by coldel| select * from teacher"<br>
SQL3104N The Export utility is beginning to export data to file<br>
"teacher_bak.txt".</p>
<p>SQL3105N The Export utility has finished exporting "2" rows.</p>
<p>Number of rows exported: 2</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ ls<br>
db2inst1 sqllib Sunrier teacher_bak.txt teacher.sql teacher.txt TEST.0.db2inst1.NODE0000.ATN0000.20120817103306.001<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ cat teacher_bak.txt<br>
1|"Lory"|上海徐汇中学"|19780806<br>
2|"Sunrier"|田林中学"|19880627<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$</p>
<p>以 IXF 格式导出<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ pwd<br>
/home/db2inst1<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ ls<br>
db2inst1 sqllib Sunrier teacher_bak.txt teacher.sql teacher.txt TEST.0.db2inst1.NODE0000.ATN0000.20120817103306.001<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ ls /home/db2inst1/Sunrier<br>
TEST.0.db2inst1.NODE0000.CATN0000.20120817150317.001<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ db2 "export to /home/db2inst1/Sunrier/teacher.ixf of ixf select * from teacher"<br>
SQL3104N The Export utility is beginning to export data to file<br>
"/home/db2inst1/Sunrier/teacher.ixf".</p>
<p>SQL3105N The Export utility has finished exporting "4" rows.</p>
<p>Number of rows exported: 4</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ ls /home/db2inst1/Sunrier<br>
teacher.ixf TEST.0.db2inst1.NODE0000.CATN0000.20120817150317.001<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$</p>
<p>如需要导出记录过程的 message<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ db2 "export to /home/db2inst1/Sunrier/teacher_bak.ixf of ixf messages /home/db2inst1/Sunrier/teacher.msg select * from teacher"</p>
<p>Number of rows exported: 4</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ ls /home/db2inst1/Sunrier<br>
teacher_bak.ixf teacher.ixf teacher.msg TEST.0.db2inst1.NODE0000.CATN0000.20120817150317.001<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$</p>
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tipped__user" target="_blank">localhost</a> ~]$ cat /home/db2inst1/Sunrier/teacher.msg<
r>
SQL3104N The Export utility is beginning to export data to file<br>
"/home/db2inst1/Sunrier/teacher_bak.ixf".</p>
<p>SQL3105N The Export utility has finished exporting "4" rows.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$</p>
<p>35.导入数据到一个表中<br>
db2 "import from teacher.txt of del insert into teacher" <br>
db2 "import from teacher_bak.txt of del modified by coldel| insert into teacher" <br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ ls<br>
db2inst1 sqlib Sunrier teacher.sql teacher.txt TEST.0.db2inst1.NODE0000.CATN0000.2012
817103306.001 <br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ cat teacher.txt<br>
3,"Jerry","上海徐汇中学",19710306<br>
4,"Tim","田林中学",19820627<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> ~]$ db2 "select * from teacher" </p>
<p>ID          FNAME          ADDRESS          BIRTH<
p>
<hr>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">    1 Lory          上海徐汇中学          1978-08-06
</span> </span> <span class="highlight-line"> <span class="highlight-cl">    2 Sunrier
    田林中学          1988-06-27
</span> </span> </code> </pre>
<p>2 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 "import from teacher.txt of del ins
rt into teacher" <br>
SQL3109N The utility is beginning to load data from file "teacher.txt".</p>
<p>SQL3110N The utility has completed processing. "2" rows were read from the<br>
input file.</p>
<p>SQL3221W ...Begin COMMIT WORK. Input Record Count = "2".</p>
<p>SQL3222W ...COMMIT of any database changes was successful.</p>
<p>SQL3149N "2" rows were processed from the input file. "2" rows were<br>
successfully inserted into the table. "0" rows were rejected.</p>
<p>Number of rows read      = 2<br>
Number of rows skipped    = 0<br>
Number of rows inserted   = 2<br>
Number of rows updated    = 0<br>
Number of rows rejected   = 0<br>
Number of rows committed  = 2</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 "select * from teacher" </p>
<p>ID          FNAME          ADDRESS          BIRTH<
p>
<hr>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">    1 Lory          上海徐汇中学          1978-08-06
</span> </span> <span class="highlight-line"> <span class="highlight-cl">    2 Sunrier
    田林中学          1988-06-27

```

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</span></span><span class="highlight-line"><span class="highlight-cl"> 3 Jerry
  上海徐汇中学                                1971-03-06
</span></span><span class="highlight-line"><span class="highlight-cl"> 4 Tim
  田林中学                                    1982-06-27
</span></span></code></pre>
<p>4 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$</p>
<p>36.利用脚本创建表<br>
格式:db2 -tvf scriptName.sql</p>
<p>teacher.sql 为以下内容<br>
----建立表 teacher<br>
create table teacher<br>
(<br>
id integer not null ,<br>
fname varchar(20) not null,<br>
address varchar(80) default '上海',<br>
birth date,<br>
primary key(id)<br>
);<br>
--建表结束</p>
<p>--以下为插入数据字段<br>
insert into teacher values(1,'Lory','上海徐汇中学','1978-08-06');<br>
insert into teacher values(2,'Sunrier','田林中学','1988-06-27');</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 list tables</p>
<p>Table/View          Schema          Type  Creation time</p>
<hr>
<p>PEOPLE              DB2INST1       T    2012-08-16-15.13.49.396370<br>
STUDENT              DB2INST1       T    2012-08-06-15.26.17.189538</p>
<p>2 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 -tvf teacher.sql<br>
create table teacher ( id integer not null , fname varchar(20) not null, address varchar(80) defa
lt '上海', birth date, primary key(id) )<br>
DB20000I The SQL command completed successfully.</p>
<p>insert into teacher values(1,'Lory','上海徐汇中学','1978-08-06')<br>
DB20000I The SQL command completed successfully.</p>
<p>insert into teacher values(2,'Sunrier','田林中学','1988-06-27')<br>
DB20000I The SQL command completed successfully.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 describe table teacher</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">
</span></span></code></pre>
<p>Column name          schema  Data type name    Length  Scale Nulls</p>
<hr>
<p>ID                   SYSIBM  INTEGER           4      0 No<br>
FNAME                 SYSIBM  VARCHAR           20     0 No<br>
ADDRESS               SYSIBM  VARCHAR           80     0 Yes<br>
BIRTH                 SYSIBM  DATE              4      0 Yes</p>
<p>4 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> ~]$ db2 "select * from teacher"</p>

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ID          FNAME          ADDRESS          BIRTH
1 Lory          上海徐汇中学          1978-08-06
2 Sunrier          田林中学          1988-06-27

```

2 record(s) selected.

[db2inst1@localhost ~]\$

37.备份数据库(如防止表误操作)

格式:db2 backup db [ to ]  
database name:表示数据库  
to :表示为备份到的目录路径,为可选项,默认在当前目录下

[db2inst1@localhost ~]\$ ls  
db2inst1 sqllib teacher.sql

[db2inst1@localhost ~]\$ db2 list db directory  
System Database Directory  
Number of entries in the directory = 1  
Database 1 entry:  
Database alias = TEST  
Database name = TEST  
Local database directory = /home/db2inst1  
Database release level = d.00  
Comment =  
Directory entry type = Indirect  
Catalog database partition number = 0  
Alternate server hostname =  
Alternate server port number =

[db2inst1@localhost ~]\$ db2 backup db test  
Backup successful. The timestamp for this backup image is : 20120817103306

[db2inst1@localhost ~]\$ ls  
db2inst1 sqllib teacher.sql TEST.0.db2inst1.NODE0000.CATN0000.20120817103306.001

[db2inst1@localhost ~]\$ db2 list active databases  
SQL1611W No data was returned by Database System Monitor.

[db2inst1@localhost ~]\$

注:TEST.0.db2inst1.NODE0000.CATN0000.20120817103306.001 即为备份的数据库节点文件

执行备份命令时,如果出现无法执行,则先断开数据库的连接再执行备份命令.

我使用的免费版本的 DB2 数据库测试时,从上面可以看出没有断开也可以执行,但执行完,发现数据库处于断开状态了

如: db2 force application all  
强制关闭实例上的所有应用程序

[db2inst1@localhost ~]\$ ls  
db2inst1 sqllib Sunrier teacher\_bak.txt teacher.sql teacher.txt TEST.0.db2inst1.NODE0000.



```

ATN0000.20120817103306.001 <br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ db2 backup db test to /home/db2inst1/Sunrier</p>
<p>Backup successful. The timestamp for this backup image is : 20120817150317</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ ls<br>
db2inst1 sqllib Sunrier teacher_bak.txt teacher.sql teacher.txt TEST.0.db2inst1.NODE0000.ATN0000.20120817103306.001 <br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ cd Sunrier/<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> Sunrier]$ ls<br>
TEST.0.db2inst1.NODE0000.CATN0000.20120817150317.001 <br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> Sunrier]$ </p>
<p>说明:上面的方法为脱机备份(也称为离线备份或者冷备份),此方法必须断开所有与数据库连接的应后才能进行,备份时数据库不能提供给用户使用.</p>
<p>38.恢复数据库(如将一个表删除后,通过删除前的备份文件恢复)<br>
格式:db2 restore db [ from ]<br>
database name:表示恢复的数据库名<br>
from :表示为从哪个目录路径下恢复,为可选项,默认在当前目录下<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ db2 connect to test</p>
<p>Database Connection Information</p>
<p>Database server      = DB2/LINUX 9.7.1<br>
SQL authorization ID  = DB2INST1<br>
Local database alias  = TEST</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ db2 list tables</p>
<p>Table/View          Schema          Type  Creation time</p>
<hr>
<p>PEOPLE              DB2INST1       T    2012-08-16-15.13.49.396370<br>
STUDENT              DB2INST1       T    2012-08-06-15.26.17.189538<br>
TEACHER              DB2INST1       T    2012-08-17-10.18.18.245263</p>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ db2 "select * from teacher"</p>
<p>ID      FNAME      ADDRESS      BIRTH</p>
<hr>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> 1 Lory      上海徐汇中学      1978-08-06
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> 2 Sunrier  田林中学          1988-06-27
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> 3 Jerry   上海徐汇中学      1971-03-06
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> 4 Tim    田林中学          1982-06-27
</span> </span> </code> </pre>
<p>4 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$ db2 drop table teacher<br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped_user" target="_blank">localhost</a> ~]$

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tipped_user" target="_blank">localhost</a> ~]$ db2 list tables</p>
<p>Table/View          Schema          Type  Creation time</p>
<hr>
<p>PEOPLE              DB2INST1       T    2012-08-16-15.13.49.396370<br>
STUDENT              DB2INST1       T    2012-08-06-15.26.17.189538</p>
<p>2 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ db2 connect reset<br>
DB20000I The SQL command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> Sunrier]$ ls /home/db2inst1/Sunrier<br>
TEST.0.db2inst1.NODE0000.CATN0000.20120817150317.001<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 restore db test from /home/db2inst1/
unrier<br>
SQL2539W Warning! Restoring to an existing database that is the same as the<br>
backup image database. The database files will be deleted.<br>
Do you want to continue ? (y/n) y<br>
DB20000I The RESTORE DATABASE command completed successfully.<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 list tables<br>
SQL1024N A database connection does not exist. SQLSTATE=08003<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 connect to test</p>
<p>Database Connection Information</p>
<p>Database server      = DB2/LINUX 9.7.1<br>
SQL authorization ID  = DB2INST1<br>
Local database alias  = TEST</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ db2 list tables</p>
<p>Table/View          Schema          Type  Creation time</p>
<hr>
<p>PEOPLE              DB2INST1       T    2012-08-16-15.13.49.396370<br>
STUDENT              DB2INST1       T    2012-08-06-15.26.17.189538<br>
TEACHER              DB2INST1       T    2012-08-17-10.18.18.245263</p>
<p>3 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$ db2 "select * from teacher"</p>
<p>ID      FNAME      ADDRESS      BIRTH</p>
<hr>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">  1 Lory      上海徐汇中学      1978-08-06
</span></span><span class="highlight-line"><span class="highlight-cl">  2 Sunrier
  田林中学      1988-06-27
</span></span><span class="highlight-line"><span class="highlight-cl">  3 Jerry
  上海徐汇中学      1971-03-06
</span></span><span class="highlight-line"><span class="highlight-cl">  4 Tim
  田林中学      1982-06-27
</span></span></code></pre>
<p>4 record(s) selected.</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$</p>
<p>注:如果想把恢复的数据库更改为新的数据库名,则格式如下<br>
db2 restore db [ from into ]<br>

```

例:db2 restore db test from /home/db2inst1/Sunrier into testdb<br>  
或者 db2 restore db test from "/home/db2inst1/Sunrier" into testdb</p>  
<p>39.db2move 命令的使用<br>  
db2move 是一个集成式的数据移动工具,它具有导入(import),导出(export),装入(load)三种操作方法.  
br>  
db2move 导出的数据文件格式是 IXF(Integration Exchange Format)集成交换格式.<br>  
格式:db2move [ export -tc ] -u -p<br>  
参数: -tc 创建表的用户名<br>  
-tn 用户的表名<br>  
-sn 模式名,即导出该模式下的所有表<br>  
查看 db2move 命令帮助 db2move -help</p>  
<p>导出 test 数据库中的全部数据<br>  
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too\_tipped\_user" target="\_blank">localhost</a> ~]\$ ls<br>  
db2inst1 Sunrier teacher.sql TEST.0.db2inst1.NODE0000.CATN0000.20120817103306.0  
1<br>  
sqllib teacher\_bak.txt teacher.txt<br>  
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too\_tipped\_user" target="\_blank">localhost</a> ~]\$ db2move test export -u db2inst1 -p Sunrie  
</p>  
<p>Application code page not determined, using ANSI codepage 1208</p>  
<p>\*\*\*\*\* DB2MOVE \*\*\*\*\*</p>  
<p>Action: EXPORT</p>  
<p>Start time: Fri Aug 17 15:58:34 2012</p>  
<p>Connecting to database TEST ... successful! Server : DB2 Common Server V9.7.1</p>  
<p>Binding package automatically ... /home/db2inst1/sqllib/bnd/db2common.bnd ... success  
ul!</p>  
<p>Binding package automatically ... /home/db2inst1/sqllib/bnd/db2move.bnd ... successful  
</p>  
<p>EXPORT: 136 rows from table "SYSTOOLS"."HMON\_ATM\_INFO" <br>  
EXPORT: 0 rows from table "SYSTOOLS"."HMON\_COLLECTION" <br>  
EXPORT: 3 rows from table "DB2INST1"."PEOPLE" <br>  
EXPORT: 5 rows from table "SYSTOOLS"."POLICY" <br>  
EXPORT: 3 rows from table "DB2INST1"."STUDENT" <br>  
EXPORT: 4 rows from table "DB2INST1"."TEACHER" </p>  
<p>Disconnecting from database ... successful!</p>  
<p>End time: Fri Aug 17 15:58:35 2012<br>  
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too\_tipped\_user" target="\_blank">localhost</a> ~]\$ ls<br>  
db2inst1 sqllib tab1.msg tab3.ixf tab4.ixf tab5.msg teacher\_bak.txt TEST.0.db2inst1  
NODE0000.CATN0000.20120817103306.001<br>  
db2move.lst Sunrier tab2.ixf tab3.msg tab4.msg tab6.ixf teacher.sql<br>  
EXPORT.out tab1.ixf tab2.msg tab4a.001.lob tab5.ixf tab6.msg teacher.txt<br>  
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too\_tipped\_user" target="\_blank">localhost</a> ~]\$<br>  
注:<br>  
执行上面命令后会把数据库 test 中全部数据提取到当前目录(/home/db2inst1),每个表的内容都存储  
一个.ixf 文件中,<br>  
每个.ixf 文件都有一个与之相对应的.msg 文件,.msg 文件是描述从表中导出数据时的信息.例外还有两  
文件,db2move.lst 用来<br>  
记录.ixf 文件,.msg 文件与表一一对应.EXPORT.out 记录的是导出数据时的屏幕输出.</p>  
<p>导出 test 数据库中的 teacher 表中的信息<br>  
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too\_tipped\_user" target="\_blank">localhost</a> ~]\$ ls<br>

```

db2inst1 Sunrier teacher.sql TEST.0.db2inst1.NODE0000.CATN0000.20120817103306.001
br>
sqllib teacher_bak.txt teacher.txt<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2move test export -tn teacher -u db2ins
1 -p Sunrier</p>
<p>Application code page not determined, using ANSI codepage 1208</p>
<p>***** DB2MOVE *****</p>
<p>Action: EXPORT</p>
<p>Start time: Fri Aug 17 16:33:24 2012</p>
<p>All table names matching: TEACHER;</p>
<p>Connecting to database TEST ... successful! Server : DB2 Common Server V9.7.1</p>
<p>EXPORT: 4 rows from table "DB2INST1"."TEACHER"</p>
<p>Disconnecting from database ... successful!</p>
<p>End time: Fri Aug 17 16:33:24 2012<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ ls<br>
db2inst1 EXPORT.out Sunrier tab1.msg teacher.sql TEST.0.db2inst1.NODE0000.CAT
0000.20120817103306.001<br>
db2move.lst sqllib tab1.ixf teacher_bak.txt teacher.txt<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$</p>
<p>40.查看 test 数据库备份的历史记录<br>
格式:db2 list history backup all for<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 list history backup all for test</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl"> List History File for test
</span></span></code></pre>
<p>Number of matching file entries = 4</p>
<p>Op Obj Timestamp+Sequence Type Dev Earliest Log Current Log Backup ID</p>
<hr>
<h2 id="B--D--20120817103306001---F----D--S0000000-LOG-S0000000-LOG">B D 201208
7103306001 F D S0000000.LOG S0000000.LOG</h2>
<p>Contains 3 tablespace(s):</p>
<h2 id="00001-SYSCATSPACE00002-USERSPACE100003-SYSTOOLSPACE">00001 SYSCATSP
CE<br>
00002 USERSPACE1<br>
00003 SYSTOOLSPACE</h2>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">Comment: DB2 BACKUP TEST OFFLINE
</span></span></code></pre>
<h2 id="Start-Time--20120817103306End-Time--20120817103315Status--A">Start Time: 20
20817103306<br>
End Time: 20120817103315<br>
Status: A</h2>
<p>EID: 4 Location: /home/db2inst1</p>
<p>Op Obj Timestamp+Sequence Type Dev Earliest Log Current Log Backup ID</p>
<hr>
<h2 id="B--D--20120817150248000---F-----S0000000-LOG">B D 20120817150248000 F
S0000000.LOG</h2>
<p>Contains 3 tablespace(s):</p>
<h2 id="00001-SYSCATSPACE00002-USERSPACE100003-SYSTOOLSPACE-">00001 SYSCATS
ACE<br>

```

```

00002 USERSPACE1 <br>
00003 SYSTOOLSPACE </h2>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">Comment: DB2 BACKUP TEST OFFLINE
</span> </span> </code> </pre>
<h2 id="Start-Time--20120817150248End-Time--20120817150249Status--A">Start Time: 20
20817150248<br>
End Time: 20120817150249<br>
Status: A</h2>
<p>EID: 5 Location:</p>
<p>Op Obj Timestamp+Sequence Type Dev Earliest Log Current Log Backup ID</p>
<hr>
<h2 id="B--D--20120817150317001---F----D--S0000000-LOG-S0000000-LOG">B D 201208
7150317001 F D S0000000.LOG S0000000.LOG</h2>
<p>Contains 3 tablespace(s):</p>
<h2 id="00001-SYSCATSPACE00002-USERSPACE100003-SYSTOOLSPACE--">00001 SYSCATS
ACE<br>
00002 USERSPACE1 <br>
00003 SYSTOOLSPACE </h2>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">Comment: DB2 BACKUP TEST OFFLINE
</span> </span> </code> </pre>
<h2 id="Start-Time--20120817150317End-Time--20120817150323Status--A">Start Time: 20
20817150317<br>
End Time: 20120817150323<br>
Status: A</h2>
<p>EID: 6 Location: /home/db2inst1/Sunrier</p>
<p>Op Obj Timestamp+Sequence Type Dev Earliest Log Current Log Backup ID</p>
<hr>
<h2 id="B--D--20120817150825001---F----D--S0000000-LOG-S0000000-LOG">B D 201208
7150825001 F D S0000000.LOG S0000000.LOG</h2>
<p>Contains 3 tablespace(s):</p>
<h2 id="00001-SYSCATSPACE00002-USERSPACE100003-SYSTOOLSPACE---">00001 SYSCAT
PACE<br>
00002 USERSPACE1 <br>
00003 SYSTOOLSPACE </h2>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">Comment: DB2 BACKUP TEST OFFLINE
</span> </span> </code> </pre>
<h2 id="Start-Time--20120817150825End-Time--20120817150832Status--I">Start Time: 201
0817150825<br>
End Time: 20120817150832<br>
Status: I</h2>
<p>EID: 7 Location: /home/db2inst1/Sunrier</p>
<p>Op Obj Timestamp+Sequence Type Dev Earliest Log Current Log Backup ID</p>
<hr>
<h2 id="R--D--20120817151620001---F-----S0000000-LOG-S0000000-LOG-201208171503
7">R D 20120817151620001 F S0000000.LOG S0000000.LOG 20120817150317</h2>
<p>Contains 3 tablespace(s):</p>
<h2 id="00001-SYSCATSPACE00002-USERSPACE100003-SYSTOOLSPACE-----">00001 SYSCA
SPACE<br>
00002 USERSPACE1 <br>
00003 SYSTOOLSPACE </h2>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight

```

```

cl">Comment: RESTORE TEST NO RF
</span></span></code></pre>
<h2 id="Start-Time--20120817151620End-Time--20120817151629Status--A">Start Time: 20
20817151620<br>
End Time: 20120817151629<br>
Status: A</h2>
<p>EID: 8 Location:</p>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped_user" target="_blank">localhost</a> ~]$</p>
<p>41.读数据库管理程序配置<br>
db2 get dbm cfg</p>
<p>42.写数据库管理程序配置<br>
db2 update dbm cfg using 参数名 参数值</p>
<p>43.查看数据库的配置<br>
db2 connect to user using<br>
db2 get db cfg [ for ]</p>
<p>database:数据库名<br>
username:用户名<br>
password:表示密码</p>
<p>44.设置数据库的配置<br>
db2 connect to user using<br>
db2 update db cfg for using 参数名 参数值</p>
<p>45.添加 DB2 服务端口 50000<br>
切换到 root 用户下 su - root<br>
[root@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tooltip
ed_user" target="_blank">localhost</a> etc]# vi /etc/services<br>
在/etc/services 文件中加入 db2inst1 50000/tcp</p>
<p>/etc/services 内容格式:</p>
<h2 id="service-name--port-protocol---aliases-----comment-">service-name port/pro
ocol [aliases ...] [# comment]</h2>
<p>46.断开与数据库的连接<br>
db2 connect reset 或 db2 terminate<br>
db2 disconnect</p>
<p>47.查看命令帮助<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$ db2 ? db2start<br>
{START DATABASE MANAGER | DB2START} [REMOTE [INSTANCE] instance-name<br>
{ADMINNODE node-name | HOSTNAME hostname} USER username USING password]<br>
[ADMIN MODE {USER username | GROUP groupname} ] [PROFILE profile]<br>
[DBPARTITIONNUM db-partition-number] [ADD DBPARTITIONNUM HOSTNAME hostname<
r>
PORT logical-port [COMPUTER computer-name] [USER username] [PASSWORD password]<b
>
[NETNAME netname] [LIKE DBPARTITIONNUM db-partition-number |<br>
WITHOUT TABLESPACES]] | STANDALONE | RESTART [HOSTNAME hostname]<br>
[PORT logical-port] [COMPUTER computer-name] [USER username] [PASSWORD password]<
r>
[NETNAME netname] ] ]</p>
<p>NOTE: From the operating system prompt, prefix commands with 'db2'.<br>
Special characters MAY require an escape sequence (), for example:<br>
db2 ? change database<br>
db2 ? change database xxx comment with "text"<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped_user" target="_blank">localhost</a> ~]$<br>

```

格式:db2 ?</p>

<p>48.查看错误码信息<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped\_user" target="\_blank">localhost</a> ~]\$ db2 ? 22003</p>

<p>SQLSTATE 22003: A numeric value is out of range.</p>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="tootipped\_user" target="\_blank">localhost</a> ~]\$<br>

格式:db2 ?</p>

<p>49.待定,工作过程中遇到相关问题再补充.....</p>

<p>实例程序</p>

<p>//db2dbproc.sqc</p>

<p><strong>[cpp]</strong> <a href="https://ld246.com/forward?goto=http%3A%2F%2Fblog.csdn.net%2Fsunrier%2Farticle%2Fdetails%2F7835578%23" title="view plain" target="\_blank" rel="nofollow ugc">view plain</a> <a href="https://ld246.com/forward?goto=http%3A%2F%2Fblog.csdn.net%2Fsunrier%2Farticle%2Fdetails%2F7835578%23" title="copy" target="\_blank" rel="nofollow ugc">copy</a> </p>

<ol>

<li>/\*\*\*\*\*</li>

<li>

<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> FileName : db2dbproc.sqc</span></span></code></pre>

</li>

<li>

<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> FileFunc : C语言接口访问本地DB2数据库</span></span></code></pre>

</li>

<li>

<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> Version : V0.1</span></span></code></pre>

</li>

<li>

<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> Author : Sunrier</span></span></code></pre>

</li>

<li>

<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> Date : 2012-08-06</span></span></code></pre>

</li>

<li>

<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> Descp : Linux下使用C语言访问DB2函数</span></span></code></pre>

</li>

<li>\*\*\*\*\*</li>

<li>//(嵌入 SQL 语句的关键字不区分大小写)</li>

<li>#include</li>

<li>#include</li>

<li>#include</li>

<li></li>

```

<li>#define PARAERR          0x04</li>
<li>#define DATABASEERR      0x08</li>
<li></li>
<li>EXEC SQL include sqlca;</li>
<li></li>
<li>int check_error(char szMessage[])</li>
<li>{</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> if( sqlca.sqlcode )
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> {
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">    printf("Check error report : \n");
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">    printf("Error ocured : %s ,sqlcode = [%d] \n",szMessage,sqlca.sqlcode);
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">    return 1;
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> }
</span></span></code></pre>
</li>
<li></li>
<li>return 0;</li>
<li>}</li>
<li></li>
<li>int db2_login(int iArgcFlag,char *pUserName,char *pPassword,char *pDataBase)</li>
<li>{</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> int iRetCode = 1;
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> EXEC SQL BEGIN DECLARE SECTION;
</span></span></code></pre>
</li>
<li>

```



```

<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">  char szUserName[50];
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">  char szPassword[50];
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">  char szDataBase[50];
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> EXEC SQL END  DECLARE SECTION;
</span> </span> </code> </pre>
</li>
<li> </li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> memset(szUserName,0,sizeof(szUserName));
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> memset(szPassword,0,sizeof(szPassword));
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> memset(szDataBase,0,sizeof(szDataBase));
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> strcpy(szDataBase,pDataBase);
</span> </span> </code> </pre>
</li>
<li> </li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> if( 1==iArgcFlag )
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> {
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> EXEC SQL CONNECT TO:szDataBase ;
</span> </span> </code> </pre>

```

```

</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> }
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> else
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> {
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">   if( 3==iArgcFlag )
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">   {
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">       strcpy(szUserName,pUserName);
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">       strcpy(szPassword,pPassword);
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">       EXEC SQL CONNECT TO:szDataBase USER:szUserName USING:szPassword;
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">   }
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">   else
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight

```

```

cl"> {
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">    printf("Usage : argc found error !\n");
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">    return PARAERR;
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl"> }
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl"> }
</span></span></code></pre>
</li>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl"> iRetCode = check_error("CONNECT TO DATABASE");
</span></span></code></pre>
</li>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl"> return iRetCode;
</span></span></code></pre>
</li>
</li>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl"> EXEC SQL CONNECT RESET;
</span></span></code></pre>
</li>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl"> check_error("CONNECT RESET");
</span></span></code></pre>
</li>
</li>
</ol>
<p>//demo.c</p>
<p><strong>[cpp]</strong> <a href="https://ld246.com/forward?goto=http%3A%2F%2Fbl

```

[g.csdn.net%2Fsunrier%2Farticle%2Fdetails%2F7835578%23](https://g.csdn.net%2Fsunrier%2Farticle%2Fdetails%2F7835578%23 "view plain") title="view plain" target="\_blank" rel="nofollow ugc">view plain</a> <a href="https://ld246.com/forward?goto=http%3A%2%2Fblog.csdn.net%2Fsunrier%2Farticle%2Fdetails%2F7835578%23" title="copy" target="\_blank" rel="nofollow ugc">copy</a> </p>  
<ol>  
<li>/\*\*\*\*\*</li>  
<li>  
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> FileName : demo.c  
</span> </span> </code> </pre>  
</li>  
<li>  
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> FileFunc : 测试登陆和关闭DB2数据库  
</span> </span> </code> </pre>  
</li>  
<li>  
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> Version : V0.1  
</span> </span> </code> </pre>  
</li>  
<li>  
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> Author : Sunrier  
</span> </span> </code> </pre>  
</li>  
<li>  
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> Date : 2012-08-06  
</span> </span> </code> </pre>  
</li>  
<li>  
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> Descp : Linux下使用C语言访问DB2函数  
</span> </span> </code> </pre>  
</li>  
<li>\*\*\*\*\*</li>  
<li>#include</li>  
<li></li>  
<li>int main(int argc,char \*argv[])</li>  
<li>{</li>  
<li>  
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> int iRetCode = 0;  
</span> </span> </code> </pre>  
</li>  
<li>  
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> int iArgcFlag;  
</span> </span> </code> </pre>  
</li>  
<li>  
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> char szUserName[20] = "Sunrier";

```
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> char szPassword[20] = "redhat";
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> char szDatabase[20] = "test";
</span> </span> </code> </pre>
</li>
<li> </li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> iArgcFlag = 1;
</span> </span> </code> </pre>
</li>
<li> </li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> iRetCode = db2_login(iArgcFlag,szUserName,szPassword,szDatabase);
</span> </span> </code> </pre>
</li>
<li> </li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> printf("iRetCode = %d \n",iRetCode);
</span> </span> </code> </pre>
</li>
<li> </li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> if( iRetCode )
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> {
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">     printf("DB2 Connection failure !\n");
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">     return iRetCode;
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> }
</span> </span> </code> </pre>
</li>
```

```

</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> else
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> {
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl">     printf("DB2 Connection success !\n");
</span> </span> </code> </pre>
</li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> }
</span> </span> </code> </pre>
</li>
<li> </li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> db2_logout();
</span> </span> </code> </pre>
</li>
<li> </li>
<li>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight
cl"> return 0;
</span> </span> </code> </pre>
</li>
<li> </li>
</ol>
<p> //makefile</p>
<p> <strong>[cpp]</strong> <a href="https://ld246.com/forward?goto=http%3A%2F%2Fbl
g.csdn.net%2Fsunrier%2Farticle%2Fdetails%2F7835578%23" title="view plain" target="_blank
rel="nofollow ugc">view plain</a> <a href="https://ld246.com/forward?goto=http%3A%2
%2Fblog.csdn.net%2Fsunrier%2Farticle%2Fdetails%2F7835578%23" title="copy" target="_bla
k" rel="nofollow ugc">copy</a> </p>
<ol>
<li>
<p> OBJS = demo</p>
</li>
<li>
<p> all:$(OBJS)</p>
</li>
<li> </li>
<li>
<p> DB2INCPATH=/home/db2inst1/sqllib/include</p>
</li>
<li> </li>

```

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</li>
<p>DB2LIBPATH=/home/db2inst1/sqllib/lib</p>
</li>
<li></li>
<li>
<p>demo:demo.c db2dbproc.sqc</p>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> @db2 connect to test
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> @db2 prep db2dbproc.sqc
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> @gcc -I$(DB2INCPATH) -o demo demo.c db2dbproc.c -L$(DB2LIBPATH) -ldb2
</span></span></code></pre>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> @rm -rf db2dbproc.c
</span></span></code></pre>
</li>
<li>
<p>clean:</p>
</li>
<li>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> @ls | grep -v ^makefile
</span></span></code></pre>
<p>|grep -v[.]c</p>
<p>| grep -v [.]h</p>
<p>|grep -v[.]sqc</p>
<p>| grep -v [.]sql$ | xargs rm -rf</p>
</li>
</ol>
<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=
tooltipped__user" target="_blank">localhost</a> DB2]$ ls<br>
dbproc.sqc demo.c makefile<br>
[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too
tipped__user" target="_blank">localhost</a> DB2]$ make</p>
<p>Database Connection Information</p>
<p>Database server = DB2/LINUX 9.7.1<br>
SQL authorization ID = DB2INST1<br>
Local database alias = TEST</p>
<p>LINE MESSAGES FOR dbproc.sqc</p>
<hr>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl"> SQL0060W The "C" precompiler is in progress.
</span></span><span class="highlight-line"><span class="highlight-cl"> SQL0091W Pre

```

ompilation or binding was ended with "0"

</span></span> <span class="highlight-line"> <span class="highlight-cl"> errors an  
"0" warnings.

</span></span></code></pre>

<p>[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class=  
tooltipped\_\_user" target="\_blank">localhost</a> DB2]\$ ls<br>

dbproc.sqc demo demo.c makefile<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too  
tipped\_\_user" target="\_blank">localhost</a> DB2]\$ ./demo<br>

iRetCode = 0<br>

DB2 Connection success !<br>

[db2inst1@<a href="https://ld246.com/member/localhost" aria-name="localhost" class="too  
tipped\_\_user" target="\_blank">localhost</a> DB2]\$</p>