

大数据技术-第七章：HBase数据库 HBase常用Shell命令



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01. HBase常用Shell命令



01

HBase常用Shell命令



» HBase常用Shell命令

· (1) 进入HBase命令行

```
[hadoop@master ~]$ hbase shell
```

· (2) 建立表scores, 两个列簇: grade和course

```
hbase(main):001:0> create 'scores','grade','course'
```

```
hbase(main):001:0> create 'scores', 'grade', 'course' 0 row(s) in 2.9150 seconds
```

```
=> Hbase:: Table - scores
```

· (3) 查看数据库状态

```
hbase(main):001:0> status
```

```
1 active master, 0 backup masters, 2 servers, 0 dead, 1.0000 average load
```

· (4) 查看数据库版本

```
hbase(main):002:0> version
```

```
1.2.1,r8d8a7107dc4ccbf36a92f64675dc60392f85c015,Wed Mar 30 11:19:21 CDT 20
```

```
16
```

· (5) 查看表

```
hbase(main):008:0> list
```

```
TABLE
```

```
scores
```

```
1 row(s) in 0.0100 seconds
```

```
=> ["scores"]
```

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(6) 插入记录1: liming,grade: 1901soft

```
hbase(main):005:0> put 'scores','liming','grade:','1901soft'
```

```
0 row(s) in 0.2250 seconds
```

(7) 插入记录2: liming,course:math,86

```
hbase(main):004:0> put 'scores','liming','course:math','86'
```

```
0 row(s) in 0.0190 seconds
```

(8) 插入记录3: liming,course:cloud,92

```
hbase(main):005:0> put 'scores','liming','course:cloud','92'
```

```
0 row(s) in 0.0170 seconds
```

(9) 插入记录4: wangxiaojun,grade:1901bigdata

```
hbase(main):006:0> put 'scores',wangxiaojun,'grade:',1901bigdata
```

```
0 row(s) in 0.0070 seconds
```

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· (10) 插入记录5: wangxiaojun,grade:math,87

```
hbase(main):007:0> put 'scores',wangxiaojun,'course:math','87'  
0 row(s) in 0.0060 seconds
```

· (11) 插入记录6: shi,grade:cloud,96

```
hbase(main):008:0> put 'scores',wangxiaojun,'course:cloud','96'  
0 row(s) in 0.0070 seconds
```

· (12) 读取liming的记录

```
hbase(main):009:0> get 'scores','liming'  
COLUMN          CELL  
course:cloud     timestamp=1614006330660, value=92  
course:math      timestamp=1614006323546, value=86  
grade:           timestamp=1614006310957, value=1901soft  3 row(s) in 0.0800  
seconds
```

· (13) 读取liming的班级

```
hbase(main):012:0> get 'scores',liming,'grade'  
COLUMN          CELL  
grade:           timestamp=1614006310957, value=1901soft  
1 row(s) in 0.0150 seconds
```

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(14) 查看整个表记录

```
hbase(main):013:0> scan 'scores'
```

```
ROW COLUMN+CELL
```

```
liming column=course:cloud, timestamp=1614006330660, value=92
```

```
liming column=course:math, timestamp=1614006323546, value=86
```

```
liming column=grade:, timestamp=1614006310957, value=1901soft
```

```
wangxiaojun column=course:cloud, timestamp=1614006351606, value=96
```

```
wangxiaojun column=course:math, timestamp=1614006345542, value=87
```

```
wangxiaojun column=grade:, timestamp=1614006338637,  
value=1901bigdata
```

```
2 row(s) in 0.0570 seconds
```

(15) 按列查看表记录

```
hbase(main):014:0> scan 'scores',{COLUMNS=>'course'}
```

```
ROW COLUMN+CELL
```

```
liming column=course:cloud, timestamp=1614006330660, value=92
```

```
liming column=course:math, timestamp=1614006323546, value=86
```

```
wangxiaojun column=course:cloud, timestamp=1614006351606, value=96
```

```
wangxiaojun column=course:math, timestamp=1614006345542, value=87
```

```
2 row(s) in 0.0230 seconds
```

(16) 删除指定记录

```
hbase(main):015:0> delete 'scores','wangxiaojun','grade'
```

```
0 row(s) in 0.0390 seconds
```

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. (17) 删除后, 执行scan命令

```
.hbase(main):016:0> scan 'scores'
```

```
.ROW COLUMN+CELL
```

```
.liming      column=course:cloud, timestamp=1614006330660, value=92
```

```
.liming      column=course:math, timestamp=1614006323546, value=86
```

```
.liming      column=grade:, timestamp=1614006310957, value=1901soft
```

```
.wangxiaojun column=course:cloud, timestamp=1614006351606, value=96
```

```
.wangxiaojun column=course:math, timestamp=1614006345542, value=87
```

```
.row( s) in 0. 0350 seconds
```

. (18) 增加新的列簇

```
.hbase(main):017:0> alter 'scores',NAME=>'age'
```

```
.Updating all regions with the new schema.
```

```
.0/ 1 regions updated.
```

```
.1/ 1 regions updated.
```

```
.Done.
```

```
.0 row(s) in 3.0060 seconds
```

» HBase常用Shell命令

(19) 查看表结构

```
hbase(main):018:0> describe 'scores'
```

```
Table scores is ENABLED
```

```
scores
```

```
COLUMN FAMILIES DESCRIPTION
```

```
{NAME => 'age', BLOOMFILTER => 'ROW', VERSIONS => '1', IN_MEMORY => 'false', KEEP_D
```

```
ELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER', COMPRESSI
```

```
ON => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', REPLICATION_SCOPE => '0'}
```

```
{NAME => 'course', BLOOMFILTER => 'ROW', VERSIONS => '1', IN_MEMORY => 'false', KEE
```

```
P_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER', COMPRE
```

```
SSION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', R
```

```
EPLICATION_SCOPE => '0'}
```

```
{NAME => 'grade', BLOOMFILTER => 'ROW', VERSIONS => '1', IN_MEMORY => 'false', KEEP
```

```
_DELETED_CELLS => 'FALSE', DATA_BLOCK_ENCODING => 'NONE', TTL => 'FOREVER', COMPRES
```

```
SION => 'NONE', MIN_VERSIONS => '0', BLOCKCACHE => 'true', BLOCKSIZE => '65536', RE
```

```
PLICATION_SCOPE => '0'} 3 row(s) in 0.0400 seconds
```

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· (20) 删除列簇

```
hbase(main):020:0> alter 'scores',NAME=>'age',METHOD=>'delete'
```

```
Updating all regions with the new schema...
```

```
1/ 1 regions updated.
```

```
Done,
```

```
0 row(s) in 2.1600seconds
```

· (21) 删除表

```
hbase(main):021:0> disable 'scores'
```

```
0 row(s) in 2.2930seconds
```

```
hbase(main):022:0> drop 'scores'
```

```
0 row(s) in 1.2530seconds
```

```
hbase(main):023:0> list
```

```
TABLE
```

```
0 row(s) in 0.0150 seconds
```

```
==> []
```

· (22) 退出

```
hbase(main):024:0> quit
```

```
[hadoopdmaster~]$
```

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大数据

BIG
DATA

智 / 能 / 科 / 技 放 / 眼 / 未 / 来

