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# MySql介绍

数据库 mysql

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## 数据库简单介绍

数据管理是指对各种数据进行分类，组织，编码，存储，检索，维护。

**数据库(DataBase, DB)** 是长期保存在计算机的存储设备上，按照一定规则组织起来，可以被各种用户或应用共享的数据集合

**数据库管理系统(DataBase Management System, DBMS)** 是指一种操作和管理数据库的大型软件，用于建立，使用，维护数据库，对数据库进行统一管理的控制，以保证数据库的安全性和完整性。用户通过数据库管理系统来访问数据库中的数据。常用的数据库管理系统有Oracle, MySql, Sql Server, DB2等

**数据库系统(DataBase System, DBS)** 是指计算机系统中引入数据库后的系统，通常由计算机硬件，软件，数据库管理系统和数据管理员组成。

### 数据库系统类型

现在主流的数据库系统类型有网状数据库(Network Database). 关系数据库(Relational Database). 树状数据库(Hierarchical Database). 面向对象数据库(Object-oriented Database)。

**关系数据库**

是建立在关系数据库模型基础上的数据库，借助于集合代数等概念和方法来处理数据库中的数据。目前主流的关系数据库有oracle. db2. sqlserver. sybase. mysql等。关系模型的基本数据结构是表，实体的信息在列和行（也称为**元组**）中进行描述，因此，“关系数据库” 的关系是指数据库中的各种表，一个关系是一系列元组. 关系数据库中所有关系必须满足某些基本规则。表有一个属性 **键** ，键是用来唯一确定表中的每个元组，通过**键**来对多表数据联结或组合，**键**也可以用于创建索引的关键要素。 一个表可以有一个或者一组**键** ，通过对这些关联的表格分类，合并，连接或选取等运算实现数据的管理

关系型数据库是一个二维的表格，市场占有量较大的为mysql, oracel。数据库互联网去给最常用的是mysql, 通过sql结构化查询语言来存取，管理数据。 在保持数据一致性方面很强(ACID理论)

常见数据库

1. oracle, 其应用范围是大企业大公司，政府 金融，证券。 11g, 12c
2. mysql
3. mariadb 是mysql数据库的一个分支，采用GPL授权许可，由于ORCALE收购了mysql后，mysql闭源的风险，mysql被sum以10亿收购，然后oracle以74亿收购sum
4. SQL server 大型关系型数据系统，微软与sybase合作协议，
5. ACCESS数据库入门级数据库



**非关系数据库nosql**

not only sql. 去掉关系数据库的关系型特性。数据之间无关系，这样就非常容易扩展。也无形之间，在架构的层面上带来了可扩展的能力。具有数据量大，高性能，数据类型灵活等特性，常见的数据库有nosql, mongodb.

nosql 不是否定关系数据库，而是作为关系 数据库的一个重要补充，NOSQL为了高性能，高并发而生，NOSQL典型产品memcached（纯内存）redis（持久化缓存）mongodb(面向文档)， HBASE

**非关系弄数据库种类**

* key-value 存储数据库 键值数据库就类似传统语言中使用的哈希表，可以通key来添加，查询和删除数据，因为key主键访问，所以会获得很高的性能及扩展性。memcached , redis,(memcachedb,berkeley db)
* 列存储数据库 列存储数据库将数据储存在列簇中，一个列族存储经常在一起查询相关数据CASSANDRA, HBase
* 面向文档的数据库(document-oriented) mongodb.
* 面向图形的数据库

常见数据库

1. memcached 纯属内存缓存软件，(K-V)，比较早的非关系型数据库 memcachedb(新浪开发)可以持久化
2. redis支持的数据类型更丰富，
3. mongodb 介于关系数据库和非关系数据库之前的产品，其功能最丰富，最像关系数据库，他支持的数据结构非常松散，
4. cassandra 由facebook开发，基于列高生产型，

## mysql版本

这里主要介绍学习mysql，其有下面几个优点：

1. MySQL性能卓越，服务稳定，很少出现异常宕机。
2. MySQL开放源代码且无版权制约，自主性及使用成本低。
3. MySQL历史悠久，社区及用户非常活跃，遇到bug. 问题，易寻求帮助。
4. MySQL软件体积小，安装使用简单，并且易于维护；安装和维护成本低。
5. MySQL品牌口碑效应，使得企业无需考虑就直接使用之，LAMP. LNMP流行架构都可。
6. MySQL支持多种操作系统，提供多种API接口，支持多种开发语言，特别对流行的PHP语言有很好的支持

其中mysql有四个版本alpha, beta, rc, ga版本

mysql商业版，非常贵

商业版与社区版区别

商业片组织管理与测试环节控制更严格，稳定性方面，会比社区版本更稳定，

mysql是成熟产品，

商业版不遵守GPL协议，社区版遵守GPL协议，

社区版只靠社区提供，无获得故障及补丁解决服务

alpha版，不对外公开，只在开发的公司内部运行。主要是开发者自己对产品进行测试，检查产品是否存在缺陷

beta，功能开发，测试完成，邀请用户 体验，与测试

RC彼，生产环境发布之前的小版本，候选版

GA， 一般是完成功能开发和所胡测试工作后的工作，主要用于生产环境使用。

## MySql 的安装与配置

yum 安装比如数据库不太重要时可以使用yum安装

二进制，编译，rpm打包，

mysql多实例：简单的说mysql多实例就是在一台服务器上同时开启多个不同的服务端口（如3306，3307）同时运行多个mysql服务进程，这些服务进程通过不同的socket 监听不同的服务端口提供服务

使用不同的my.cnf配置文件，启动程序（也可以相同）和数据文件， 在提供服务时多实例mysql在逻辑

有效利用服务器资源：当单个服务器资源有剩余时，可以充分利用剩余的资源提供更多的服务，且可以实现资源的逻辑隔离

节约服务器资源：公司资金紧张，但是数据库又需要各自尽量独立的提供服务，而且需要主从复制等技术时，多实例再好不过了。

mysql多实例有它的好处，但也有其弊端，会存在资源互相抢占的问题。当某个数据库实例并发很高或者有sql慢查询时，整个实例会消耗大量的系统CPU，磁盘IO等资源。可以通过3台服务器部署9-15个实例，交叉做主从复制，数据备份及读写分离，这样就可以达到9-15台服务器每个只装一个数据库才有的效果。

并发不是很大的业务，当公司访问量不太大的时候，服务器的资源基本是浪费，这时很适合多实例的实用，如果对sql语句的优化做得比较好，mysql多实例会是一个很值得使用的技术

门户网站通常都会使用多实例，因为配置硬件好的服务器，可节省IDC机械空间。

安装一套mysql程序，开启不同的端口来实现多实例，（端口，

针对不特定的数据库给特定的用户及权限，尽量做到权限最小化。

官网一个配置文件，一个启动程序（耦合度太高了）多配置文件，多启动程序部署方案. 首先编译安装mysql

1.$ yum install -y ncurses-devel libaio-deve

2.$ yum install cmake

3.$ useradd mysql -s /sbin/nologin -M

4.$ tar zxf mysql-5.5.32.tar.gz && **cd** mysql-5.5.32

5.cmake . -DCMAKE\_INSTALL\_PREFIX=/application/mysql-5.5.32 \

6.-DMYSQL\_DATADIR=/application/mysql-5.5.32/data \

7.-DMYSQL\_UNIX\_ADDR=/application/mysql-5.5.32/tmp/mysql.sock \

8.-DDEFAULT\_CHARSET=utf8 \

9.-DDEFAULT\_COLLATION=utf8\_general\_ci \

10.-DEXTRA\_CHARSETS=gbk,gb2312,utf8,ascii \

11.-DENABLED\_LOCAL\_INFILE=ON \

12.-DWITH\_INNOBASE\_STORAGE\_ENGINE=1 \

13.-DWITH\_FEDERATED\_STORAGE\_ENGINE=1 \

14.-DWITH\_BLACKHOLE\_STORAGE\_ENGINE=1 \

15.-DWITHOUT\_EXAMPLE\_STORAGE\_ENGINE=1 \

16.-DWITHOUT\_PARTITION\_STORAGE\_ENGINE=1 \

17.-DWITH\_FAST\_MUTEXES=1 \

18.-DWITH\_ZLIB=bundled \

19.-DENABLED\_LOCAL\_INFILE=1 \

20.-DWITH\_READLINE=1 \

21.-DWITH\_EMBEDDED\_SERVER=1 \

22.-DWITH\_DEBUG=0

配置多实例文件, 下面的两个文件分别复制到/data/{3306,3307}/ 下面，下面具体看看里面内容

1.$ cat /data/3306/mysql

2.port=3306

3.mysql\_user="root"

4.mysql\_**pwd**="oldboy123"

5.CmdPath="/application/mysql/bin"

6.mysql\_sock="/data/**${port}**/mysql.sock"

7.#startup function

8.**function\_start\_mysql**()

9.{

10. **if** [ ! -e "**$mysql\_sock**" ];**then**

11. **printf** "Starting MySQL...\n"

12. /bin/sh **${CmdPath}**/mysqld\_safe --defaults-file=/data/**${port}**/my.cnf 2>&1 > /dev/null &

13. **else**

14. **printf** "MySQL is running...\n"

15. **exit**

16. **fi**

17.}

18.

19.#stop function

20.**function\_stop\_mysql**()

21.{

22. **if** [ ! -e "**$mysql\_sock**" ];**then**

23. **printf** "MySQL is stopped...\n"

24. **exit**

25. **else**

26. **printf** "Stoping MySQL...\n"

27. **${CmdPath}**/mysqladmin -u **${mysql\_user}** -p**${mysql\_pwd}** -S /data/**${port}**/mysql.sock shutdown

28. **fi**

29.}

30.

31.#restart function

32.**function\_restart\_mysql**()

33.{

34. **printf** "Restarting MySQL...\n"

35. **function**\_stop\_mysql

36. sleep 2

37. **function**\_start\_mysql

38.}

39.

40.**case** **$1** **in**

41.start)

42. **function**\_start\_mysql

43.;;

44.stop)

45. **function**\_stop\_mysql

46.;;

47.restart)

48. **function**\_restart\_mysql

49.;;

50.\*)

51. **printf** "Usage: /data/**${port}**/mysql {start|stop|restart}\n"

52.**esac**

下面是my.cnf的配置文件

1.$ cat /data/3306/my.cnf

2.[client]

3.port = 3306

4.socket = /data/3306/mysql.sock

5.

6.[mysql]

7.no-auto-rehash

8.

9.[mysqld]

10.user = mysql

11.port = 3306

12.socket = /data/3306/mysql.sock

13.basedir = /application/mysql

14.datadir = /data/3306/data

15.open\_files\_limit = 1024

16.back\_log = 600

17.max\_connections = 800

18.max\_connect\_errors = 3000

19.table\_cache = 614

20.external-locking = FALSE

21.max\_allowed\_packet =8M

22.sort\_buffer\_size = 1M

23.join\_buffer\_size = 1M

24.thread\_cache\_size = 100

25.thread\_concurrency = 2

26.query\_cache\_size = 2M

27.query\_cache\_limit = 1M

28.query\_cache\_min\_res\_unit = 2k

29.#default\_table\_type = InnoDB

30.thread\_stack = 192K

31.#transaction\_isolation = READ-COMMITTED

32.tmp\_table\_size = 2M

33.max\_heap\_table\_size = 2M

34.long\_query\_time = 1

35.#log\_long\_format

36.#log-error = /data/3306/error.log

37.#log-slow-queries = /data/3306/slow.log

38.pid-file = /data/3306/mysql.pid

39.log-bin = /data/3306/mysql-bin

40.relay-log = /data/3306/relay-bin

41.relay-log-info-file = /data/3306/relay-log.info

42.binlog\_cache\_size = 1M

43.max\_binlog\_cache\_size = 1M

44.max\_binlog\_size = 2M

45.expire\_logs\_days = 7

46.key\_buffer\_size = 16M

47.read\_buffer\_size = 1M

48.read\_rnd\_buffer\_size = 1M

49.bulk\_insert\_buffer\_size = 1M

50.#myisam\_sort\_buffer\_size = 1M

51.#myisam\_max\_sort\_file\_size = 10G

52.#myisam\_max\_extra\_sort\_file\_size = 10G

53.#myisam\_repair\_threads = 1

54.#myisam\_recover

55.

56.lower\_case\_table\_names = 1

57.skip-name-resolve

58.slave-skip-errors = 1032,1062

59.replicate-ignore-db=mysql

60.

61.server-id = 1

62.

63.innodb\_additional\_mem\_pool\_size = 4M

64.innodb\_buffer\_pool\_size = 32M

65.innodb\_data\_file\_path = ibdata1:128M:autoextend

66.innodb\_file\_io\_threads = 4

67.innodb\_thread\_concurrency = 8

68.innodb\_flush\_log\_at\_trx\_commit = 2

69.innodb\_log\_buffer\_size = 2M

70.innodb\_log\_file\_size = 4M

71.innodb\_log\_files\_in\_group = 3

72.innodb\_max\_dirty\_pages\_pct = 90

73.innodb\_lock\_wait\_timeout = 120

74.innodb\_file\_per\_table = 0

75.[mysqldump]

76.quick

77.max\_allowed\_packet = 2M

78.

79.[mysqld\_safe]

80.log-error=/data/3306/mysql\_oldboy3306.err

81.pid-file=/data/3306/mysqld.pid

给mysql执行权限，然后便可以使用mysql这个脚本来启动mysql了，其实mysql可以写成一个脚本，然后传入端口号来启动mysql实例，仅需要修改一点点内容，这里就不修改了。在启动多实例之前需要先初始化多实例，然后再启动

1.$ find /data/ -type f -name "mysql"|xargs chmod +x

2.$ find /data/ -type f -name "mysql"|xargs ls -l

3.-rwxr-xr-x 1 root root 1307 Jul 15 2013 /data/3306/mysql

4.-rwxr-xr-x 1 root root 1307 Jul 21 2013 /data/3307/mysql

5.$ chown -R mysql.mysql /data

6.#然后再初始化一下两个实例，如果看到下面两个OK就证明初始化完成

7.$ ./mysql\_install\_db --basedir=/application/mysql/ --datadir=/data/3306/data --user=mysql

8.WARNING: The host 'db02' could not be looked up with resolveip.

9.This probably means that your libc libraries are not 100 % compatible

10.with this binary MySQL version. The MySQL daemon, mysqld, should work

11.normally with the exception that host name resolving will not work.

12.This means that you should use IP addresses instead of hostnames

13.when specifying MySQL privileges !

14.Installing MySQL system tables...

15.OK

16.Filling **help** tables...

17.OK

18......

接下来就可以开启数据库啦这里需要注意端口号一定不能错

1.[root@db02 scripts]# /data/3306/mysql start

2.Starting MySQL...

3.[root@db02 scripts]# /data/3307/mysql start

4.Starting MySQL...

5.[root@db02 scripts]# netstat -lntup|grep 330

6.tcp 0 0 0.0.0.0:3306 0.0.0.0:\* LISTEN 41608/mysqld

7.tcp 0 0 0.0.0.0:3307 0.0.0.0:\* LISTEN 42326/mysqld

8.

9.$ mysql -uroot -S /data/3306/mysql.sock

10.#进入mysql

11.$ **echo** "#mysql multi instances" >>/etc/rc.local

12.$ **echo** "/data/3306/mysql start" >>/etc/rc.local

13.$ **echo** "/data/3307/mysql start" >>/etc/rc.local

14.#加入开机启动

15.$ mysqladmin password oldboy123 -S /data/3307/mysql.sock

16.$ mysqladmin password oldboy123 -S /data/3308/mysql.sock

17.$ mysqladmin password oldboy123 -S /data/3308/mysql.sock

18.#设置密码

因为需要权限最小化，所以有必要删除一些权限，这里只留下面两个权限

root 172,0,0,1

root localhost

1.mysql> **select** **user**,host **from** mysql.**user**;

2.+------+-----------+

3.| user | host |

4.+------+-----------+

5.| root | 127.0.0.1 |

6.| root | ::1 |

7.| | db02 |

8.| root | db02 |

9.| | localhost |

10.| root | localhost |

11.+------+-----------+

12.6 rows in **set** (0.00 sec)

13.

14.mysql> **drop** **user** ""@"db02";

15.Query OK, 0 rows affected (0.31 sec)

16.

17.mysql> **drop** **user** "root"@"db02";

18.Query OK, 0 rows affected (0.07 sec)

19.

20.mysql> **drop** **user** "root"@"::1";

21.Query OK, 0 rows affected (0.00 sec)

22.

23.mysql> **drop** **user** ""@"localhost";

24.Query OK, 0 rows affected (0.00 sec)

25.

26.mysql> **select** **user**,host **from** mysql.**user**;

27.+------+-----------+

28.| user | host |

29.+------+-----------+

30.| root | 127.0.0.1 |

31.| root | localhost |

32.+------+-----------+

33.2 rows in **set** (0.00 sec)

增加一个用户与对数据库授权

1.**grant** all **on** mysql.\* **to** root@'localhost' **identified** **by** 'oldboy123';

2.**flush** **privileges**;

### 修改密码

改密码

1.#法一直接用mysqladmin来修改

2.$ mysqladmin -uroot -poldboy123 -S /data/3306/mysql.sock password oldboy3306

3.#法二 登录进去用update

4.mysql> UPDATE mysql.user SET password=PASSWORD("oldboy234") WHERE user='root' and host='localhost';

5.select user,host,password from mysql.user;

当密码忘记,修改密码，先杀掉mysql然后使用mysql\_safe跳过授权表启动，再更改密码，重启

1.mysqld\_safe --defaults-file=/data/3308/my.cnf --skip-grant-tables

2.mysql -S /data/3306/mysql.sock

3.mysql> UPDATE mysql.user SET password=PASSWORD("oldboy234") WHERE user='root' and host='localhost';

4.flush privileges;

5./data/3306/mysql start

### mysql开启关闭重启原理

这里我们引主mysql单实例的时候如何实现上面三个步骤

启动与关闭mysql

1./etc/init.d/mysqld restart

2.ps -ef :3306 #查看进程

3.netstat -lntup|grep 3306 #查看端口

启动3306实例命令：

/data/3306/mysql start, 相当于

mysqld\_safe –defaults-file=/data/3306/my.cnf 2>&1 > /dev/null &

停止3306实例命令：

/data/3306/mysql stop 相当于

mysqladmin -uroot -poldboy123 -S /data/3306/mysql.sock shutdown

/etc/init.d/mysqld start 相当于mysql\_safe 2>&1 >/dev/null

/etc/init.d/mysqld stop 相当于 kill pidnum

**一定一定不要用kill -9来结束mysql**

强调：尽量不要野蛮粗鲁杀死数据库，生产高并发环境可能会引起数据丢失。

野蛮粗鲁杀死数据库导致故障企业案例：

<http://oldboy.blog.51cto.com/2561410/1431161>

<http://oldboy.blog.51cto.com/2561410/1431172>

## SQL结构化查询语言

structured query language, 是关系型数据进行定义和操作的语言方法，是大多数关系数据库管理系统扶持的工业标准。

分类

* DDL(data definition laguage) 数据定义语言 CREATE ALTER DROP 必须熟练
* DCL(data control language) 数据控制语言 GRANGT REVOKE COMMIT ROLLBACK, 用户 授权，权限回收，数据提交回
* DML (data manipulation language) 数据操作语言select insert, delete update对数据里的表里的数据进行操作

下面来操作一下

1.mysql> **show** **create** **database** sandow;

2.+----------+-----------------------------------------------------------------+

3.| Database | **Create** **Database** |

4.+----------+-----------------------------------------------------------------+

5.| sandow | **CREATE** **DATABASE** `sandow` /\*!40100 DEFAULT CHARACTER SET utf8 \*/ |

6.+----------+-----------------------------------------------------------------+

7.1 **row** **in** **set** (0.00 sec)

8.

9.mysql> **create** **database** oldboy\_gbk **character** **set** gbk **collate** gbk\_chinese\_ci;

10.mysql> **create** **database** oldboy; #默认数据库配置，相当于创建拉丁字符集数据库。

11.mysql> **create** **database** oldboy\_gbk **DEFAULT** **CHARACTER** **SET** gbk **COLLATE** gbk\_chinese\_ci; # 创建gbk字符集数据库

12.mysql> **create** **database** oldboy\_utf8 **DEFAULT** **CHARACTER** **SET** utf8 **COLLATE** utf8\_general\_ci; # 创建utf8字符集数据库

13.

14.mysql> **show** **character** **set**; #查看字符集

15.mysql> **show** **databases** **like** 'oldboy'; #查看数据库

16.+-------------------+

17.| Database (oldboy) |

18.+-------------------+

19.| oldboy |

20.+-------------------+

21.1 row in **set** (0.00 sec)

22.

23.mysql> **show** **databases** **like** 'oldboy%';

24.+--------------------+

25.| Database (oldboy%) |

26.+--------------------+

27.| oldboy |

28.| oldboy\_gbk |

29.+--------------------+

30.2 rows in **set** (0.00 sec)

31.

32.# 在mysql里可以执行系统的命令 其格式为： **system** command

33.mysql> **system** pwd

34./**data**/3308

35.

36.mysql> **select** **database**(); #显示当前使用的数据库

37.+------------+

38.| database() |

39.+------------+

40.| NULL |

41.+------------+

42.1 row in **set** (0.00 sec)

43.mysql> **use** oldboy;

44.Database changed

45.mysql> **select** **database**();

46.+------------+

47.| database() |

48.+------------+

49.| oldboy |

50.+------------+

51.1 row in **set** (0.00 sec)

52.

53.mysql> **USE** db1;

54.mysql> **SELECT** **COUNT**(\*) **FROM** mytable; # selects from db1.mytable

55.mysql> **USE** db2;

56.mysql> **SELECT** **COUNT**(\*) **FROM** mytable; # selects from db2.mytable

57.

58.mysql> **select** **user**();

59.+----------------+

60.| user() |

61.+----------------+

62.| root@localhost |

63.+----------------+

64.1 row in **set** (0.00 sec)

65.

66.mysql> **delete** **from** mysql.**user** **where** **user**='root' **and** host = 'oldboy';

67.mysql> **flush** **privileges**;

68.

69.#创建用户并设置密码

70.mysql> **create** **user** oldboy@'localhost' **identified** **by** 'oldboy123' ;

71.Query OK, 0 rows affected (0.00 sec)

72.

73.mysql> **select** **user**,host **from** mysql.**user**;

74.+--------+-----------+

75.| user | host |

76.+--------+-----------+

77.| root | 127.0.0.1 |

78.| oldboy | localhost |

79.| root | localhost |

80.+--------+-----------+

81.3 rows in **set** (0.00 sec)

82.

83.mysql> **show** **grants** **for** oldboy@'localhost';

84.+----------------------------------------------------------+

85.| Grants for oldboy@localhost |

86.+----------------------------------------------------------+

87.| **GRANT** **USAGE** **ON** \*.\* **TO** 'oldboy'@'localhost' **IDENTIFIED** **BY** **PASSWORD** '\*FE28814B4A8B3309DAC6ED7D3237ADED6DA1E515' |

88.+----------------------------------------------------------+

89.1 **row** **in** **set** (0.00 sec)

90.

91.#对数据库授权的两种方法

92.第一种方法：

93.mysql> **CREATE** **USER** 'jeffrey'@'localhost' **IDENTIFIED** **BY** 'mypass';

94.mysql> **GRANT** ALL **ON** db1.\* **TO** 'jeffrey'@'localhost';

95.

96.第二种方法

97.mysql> **grant** all **on** oldboy.\* **to** oldboy@'localhost' **identified** **by** 'oldboy123';

98.Query OK, 0 rows affected (0.00 sec)

99.

100.mysql> **flush** **privileges**;

101.Query OK, 0 rows affected (0.00 sec)

面试题004：MySQL库授权oldboy用户管理bbs库的所有表，172.16.1.0整个网段访问，密码是123456，请给出详细命令(不低于2种方法)?

1.mysql> grant all **on** bbs**.**\* **to** oldboy@'172.16.1.%' identified **by** 'oldboy123';

2.Query OK, 0 **rows** affected (0.00 sec)

3.

4.mysql> grant all **on** bbs**.**\* **to** oldboy@'172.16.1.0/255.255.255.0' identified **by** 'oldboy123';

5.Query OK, 0 **rows** affected (0.00 sec)

6.

如果是web连接数据库

在授权的时候以最小化为原则，给查便不给增删， 能给localhost便给localhost, 授权网段的几种方法，如果多授权了，便可以使用revoke权限回收

1.mysql> REVOKE INSERT **ON** oldboy.\* FROM 'oldboy'@'localhost';

2.**Query** OK, 0 rows affected (0.00 sec)

3.

4.mysql> show grants **for** oldboy@'localhost';

5.

6.[root@db02 ~]# tr "," "\n"<a.**log**|sed 's#^ ##**g**'

7.INSERT

8.SELECT

9.**UPDATE**

10.DELETE

11.CREATE

12.**DROP**

13.REFERENCES

14.INDEX

15.ALTER

16.CREATE TEMPORARY TABLES

17.LOCK TABLES

18.EXECUTE

19.CREATE **VIEW**

20.SHOW **VIEW**

21.CREATE ROUTINE

22.ALTER ROUTINE

23.EVENT

24.TRIGGER

notice\_level =error 报错才提示

rlimit\_files = 32768 文件描述符

pm.min\_spare\_servers = 5 最小空闲进程数量

pm.start\_servers = 16 PHP启动时最大数量

pm.max\_children = 1024

迁移数据库到独立的数据库服务器：

1. 从老的数据库把数据库导出来

1.$ mysqldump -uroot -poldboy -x -A -B --events |gzip >/opt/bak.sql.gz

然后用scp推 到新服务器

1. 新服务器

1.$ gzip -d bak.sql.gz

2.$ mysql -uroot -p123456 </home/oldboy/bak.sql

然后给授权

1.> mysql -uroot -p123456

2.> **select** **user**,host **from** mysql.**user**;

3.> **grant** all **on** wordpress.\* **to** wordpress@'172.16.1.%' **identified** **by** '123456';

4.> **flush** **privileges**;

（二）新服务器操作

1.$ gzip -d bak.sql.gz

2.[root@db01 oldboy]# mysql -uroot -poldboy123</home/oldboy/bak.sql

3.[root@db01 oldboy]# mysql -uroot -poldboy123 -e "**use** wordpress;**show** **tables**;"

4.+-----------------------+

5.| Tables\_in\_wordpress |

6.+-----------------------+

7.| ol\_commentmeta |

8.| ol\_comments |

9.| ol\_links |

10.| ol\_options |

11.| ol\_postmeta |

12.| ol\_posts |

13.| ol\_term\_relationships |

14.| ol\_term\_taxonomy |

15.| ol\_terms |

16.| ol\_usermeta |

17.| ol\_users |

18.+-----------------------+

### 表操作

1.mysql> desc student; #查看数据库结构

2.+-------+-------------+------+-----+---------+-------+

3.| Field | Type | Null | Key | Default | Extra |

4.+-------+-------------+------+-----+---------+-------+

5.| id | int(4) | NO | | NULL | |

6.| name | char(20) | NO | | NULL | |

7.| age | tinyint(2) | NO | | 0 | |

8.| dept | varchar(16) | YES | | NULL | |

9.+-------+-------------+------+-----+---------+-------+

登录不要带密码把mysql.histsroy干掉，

要把没有用的库删除

清除没用的用户 及库

在用户防问库时，尽量单库单用户 ，授权尽量权限最小化，

在数据库上不要配外网IP，

lnmp一台时把mysql配成localhost

sql注入的问题：可以在nginx,php配置文件中设置及预防

使用客户端连接mysql时，在phpmyadmin要额外加密码，一定要对内，

对程序员禁止防问对外的数据库，

不要让开发人员获得正式密码。

%23%20MySql%u4ECB%u7ECD%0A@%28%u6570%u636E%u5E93%29%5Bmysql%5D%0A%0A%5Btoc%5D%0A%0A%23%23%20%u6570%u636E%u5E93%u7B80%u5355%u4ECB%u7ECD%0A%u6570%u636E%u7BA1%u7406%u662F%u6307%u5BF9%u5404%u79CD%u6570%u636E%u8FDB%u884C%u5206%u7C7B%uFF0C%u7EC4%u7EC7%uFF0C%u7F16%u7801%uFF0C%u5B58%u50A8%uFF0C%u68C0%u7D22%uFF0C%u7EF4%u62A4%u3002%0A%0A\*\*%u6570%u636E%u5E93%28DataBase%2C%20DB%29%20\*\*%u662F%u957F%u671F%u4FDD%u5B58%u5728%u8BA1%u7B97%u673A%u7684%u5B58%u50A8%u8BBE%u5907%u4E0A%uFF0C%u6309%u7167%u4E00%u5B9A%u89C4%u5219%u7EC4%u7EC7%u8D77%u6765%uFF0C%u53EF%u4EE5%u88AB%u5404%u79CD%u7528%u6237%u6216%u5E94%u7528%u5171%u4EAB%u7684%u6570%u636E%u96C6%u5408%0A%0A\*\*%u6570%u636E%u5E93%u7BA1%u7406%u7CFB%u7EDF%28DataBase%20Management%20System%2C%20DBMS%29\*\*%20%u662F%u6307%u4E00%u79CD%u64CD%u4F5C%u548C%u7BA1%u7406%u6570%u636E%u5E93%u7684%u5927%u578B%u8F6F%u4EF6%uFF0C%u7528%u4E8E%u5EFA%u7ACB%uFF0C%u4F7F%u7528%uFF0C%u7EF4%u62A4%u6570%u636E%u5E93%uFF0C%u5BF9%u6570%u636E%u5E93%u8FDB%u884C%u7EDF%u4E00%u7BA1%u7406%u7684%u63A7%u5236%uFF0C%u4EE5%u4FDD%u8BC1%u6570%u636E%u5E93%u7684%u5B89%u5168%u6027%u548C%u5B8C%u6574%u6027%u3002%u7528%u6237%u901A%u8FC7%u6570%u636E%u5E93%u7BA1%u7406%u7CFB%u7EDF%u6765%u8BBF%u95EE%u6570%u636E%u5E93%u4E2D%u7684%u6570%u636E%u3002%u5E38%u7528%u7684%u6570%u636E%u5E93%u7BA1%u7406%u7CFB%u7EDF%u6709Oracle%2C%20MySql%2C%20Sql%20Server%2C%20DB2%u7B49%0A%0A\*\*%u6570%u636E%u5E93%u7CFB%u7EDF%28DataBase%20System%2C%20DBS%29\*\*%20%u662F%u6307%u8BA1%u7B97%u673A%u7CFB%u7EDF%u4E2D%u5F15%u5165%u6570%u636E%u5E93%u540E%u7684%u7CFB%u7EDF%uFF0C%u901A%u5E38%u7531%u8BA1%u7B97%u673A%u786C%u4EF6%uFF0C%u8F6F%u4EF6%uFF0C%u6570%u636E%u5E93%u7BA1%u7406%u7CFB%u7EDF%u548C%u6570%u636E%u7BA1%u7406%u5458%u7EC4%u6210%u3002%0A%0A%23%23%23%20%u6570%u636E%u5E93%u7CFB%u7EDF%u7C7B%u578B%0A%u73B0%u5728%u4E3B%u6D41%u7684%u6570%u636E%u5E93%u7CFB%u7EDF%u7C7B%u578B%u6709%u7F51%u72B6%u6570%u636E%u5E93%28Network%20Database%29.%20%20%u5173%u7CFB%u6570%u636E%u5E93%28Relational%20Database%29.%20%20%u6811%u72B6%u6570%u636E%u5E93%28Hierarchical%20Database%29.%20%20%u9762%u5411%u5BF9%u8C61%u6570%u636E%u5E93%28Object-oriented%20Database%29%u3002%0A%0A\*\*%u5173%u7CFB%u6570%u636E%u5E93\*\*%0A%0A%u662F%u5EFA%u7ACB%u5728%u5173%u7CFB%u6570%u636E%u5E93%u6A21%u578B%u57FA%u7840%u4E0A%u7684%u6570%u636E%u5E93%uFF0C%u501F%u52A9%u4E8E%u96C6%u5408%u4EE3%u6570%u7B49%u6982%u5FF5%u548C%u65B9%u6CD5%u6765%u5904%u7406%u6570%u636E%u5E93%u4E2D%u7684%u6570%u636E%u3002%u76EE%u524D%u4E3B%u6D41%u7684%u5173%u7CFB%u6570%u636E%u5E93%u6709oracle.%20%20db2.%20%20sqlserver.%20%20sybase.%20%20mysql%u7B49%u3002%u5173%u7CFB%u6A21%u578B%u7684%u57FA%u672C%u6570%u636E%u7ED3%u6784%u662F%u8868%uFF0C%u5B9E%u4F53%u7684%u4FE1%u606F%u5728%u5217%u548C%u884C%uFF08%u4E5F%u79F0%u4E3A\*\*%u5143%u7EC4\*\*%uFF09%u4E2D%u8FDB%u884C%u63CF%u8FF0%uFF0C%u56E0%u6B64%uFF0C%u201C%u5173%u7CFB%u6570%u636E%u5E93%u201D%20%u7684%u5173%u7CFB%u662F%u6307%u6570%u636E%u5E93%u4E2D%u7684%u5404%u79CD%u8868%uFF0C%u4E00%u4E2A%u5173%u7CFB%u662F%u4E00%u7CFB%u5217%u5143%u7EC4.%20%u5173%u7CFB%u6570%u636E%u5E93%u4E2D%u6240%u6709%u5173%u7CFB%u5FC5%u987B%u6EE1%u8DB3%u67D0%u4E9B%u57FA%u672C%u89C4%u5219%u3002%u8868%u6709%u4E00%u4E2A%u5C5E%u6027%20\*\*%u952E\*\*%20%uFF0C%u952E%u662F%u7528%u6765%u552F%u4E00%u786E%u5B9A%u8868%u4E2D%u7684%u6BCF%u4E2A%u5143%u7EC4%uFF0C%u901A%u8FC7\*\*%u952E\*\*%u6765%u5BF9%u591A%u8868%u6570%u636E%u8054%u7ED3%u6216%u7EC4%u5408%uFF0C\*\*%u952E\*\*%u4E5F%u53EF%u4EE5%u7528%u4E8E%u521B%u5EFA%u7D22%u5F15%u7684%u5173%u952E%u8981%u7D20%u3002%20%u4E00%u4E2A%u8868%u53EF%u4EE5%u6709%u4E00%u4E2A%u6216%u8005%u4E00%u7EC4\*\*%u952E\*\*%20%uFF0C%u901A%u8FC7%u5BF9%u8FD9%u4E9B%u5173%u8054%u7684%u8868%u683C%u5206%u7C7B%uFF0C%u5408%u5E76%uFF0C%u8FDE%u63A5%u6216%u9009%u53D6%u7B49%u8FD0%u7B97%u5B9E%u73B0%u6570%u636E%u7684%u7BA1%u7406%0A%20%u5173%u7CFB%u578B%u6570%u636E%u5E93%u662F%u4E00%u4E2A%u4E8C%u7EF4%u7684%u8868%u683C%uFF0C%u5E02%u573A%u5360%u6709%u91CF%u8F83%u5927%u7684%u4E3Amysql%2C%20oracel%u3002%u6570%u636E%u5E93%u4E92%u8054%u7F51%u53BB%u7ED9%u6700%u5E38%u7528%u7684%u662Fmysql%2C%20%u901A%u8FC7sql%u7ED3%u6784%u5316%u67E5%u8BE2%u8BED%u8A00%u6765%u5B58%u53D6%uFF0C%u7BA1%u7406%u6570%u636E%u3002%20%u5728%u4FDD%u6301%u6570%u636E%u4E00%u81F4%u6027%u65B9%u9762%u5F88%u5F3A%28ACID%u7406%u8BBA%29%0A%20%0A%20%u5E38%u89C1%u6570%u636E%u5E93%0A1.%20%20oracle%2C%20%u5176%u5E94%u7528%u8303%u56F4%u662F%u5927%u4F01%u4E1A%u5927%u516C%u53F8%uFF0C%u653F%u5E9C%20%u91D1%u878D%uFF0C%u8BC1%u5238%u3002%2011g%2C%2012c%0A2.%20mysql%20%0A3.%20mariadb%20%u662Fmysql%u6570%u636E%u5E93%u7684%u4E00%u4E2A%u5206%u652F%uFF0C%u91C7%u7528GPL%u6388%u6743%u8BB8%u53EF%uFF0C%u7531%u4E8EORCALE%u6536%u8D2D%u4E86mysql%u540E%uFF0Cmysql%u95ED%u6E90%u7684%u98CE%u9669%uFF0Cmysql%u88ABsum%u4EE510%u4EBF%u6536%u8D2D%uFF0C%u7136%u540Eoracle%u4EE574%u4EBF%u6536%u8D2Dsum%0A4.%20SQL%20server%20%u5927%u578B%u5173%u7CFB%u578B%u6570%u636E%u7CFB%u7EDF%uFF0C%u5FAE%u8F6F%u4E0Esybase%u5408%u4F5C%u534F%u8BAE%uFF0C%0A5.%20ACCESS%u6570%u636E%u5E93%u5165%u95E8%u7EA7%u6570%u636E%u5E93%0A%0A%21%5BAlt%20text%5D%28./ACV@0\_%243S0Q3P%5DY\_7QV%7BPH.jpg%29%0A%0A%0A%0A%0A\*\*%u975E%u5173%u7CFB%u6570%u636E%u5E93nosql\*\*%0A%0Anot%20only%20sql.%20%u53BB%u6389%u5173%u7CFB%u6570%u636E%u5E93%u7684%u5173%u7CFB%u578B%u7279%u6027%u3002%u6570%u636E%u4E4B%u95F4%u65E0%u5173%u7CFB%uFF0C%u8FD9%u6837%u5C31%u975E%u5E38%u5BB9%u6613%u6269%u5C55%u3002%u4E5F%u65E0%u5F62%u4E4B%u95F4%uFF0C%u5728%u67B6%u6784%u7684%u5C42%u9762%u4E0A%u5E26%u6765%u4E86%u53EF%u6269%u5C55%u7684%u80FD%u529B%u3002%u5177%u6709%u6570%u636E%u91CF%u5927%uFF0C%u9AD8%u6027%u80FD%uFF0C%u6570%u636E%u7C7B%u578B%u7075%u6D3B%u7B49%u7279%u6027%uFF0C%u5E38%u89C1%u7684%u6570%u636E%u5E93%u6709nosql%2C%20mongodb.%20%0A%20nosql%20%u4E0D%u662F%u5426%u5B9A%u5173%u7CFB%u6570%u636E%u5E93%uFF0C%u800C%u662F%u4F5C%u4E3A%u5173%u7CFB%20%u6570%u636E%u5E93%u7684%u4E00%u4E2A%u91CD%u8981%u8865%u5145%uFF0CNOSQL%u4E3A%u4E86%u9AD8%u6027%u80FD%uFF0C%u9AD8%u5E76%u53D1%u800C%u751F%uFF0CNOSQL%u5178%u578B%u4EA7%u54C1memcached%uFF08%u7EAF%u5185%u5B58%uFF09redis%uFF08%u6301%u4E45%u5316%u7F13%u5B58%uFF09mongodb%28%u9762%u5411%u6587%u6863%29%uFF0C%20HBASE%0A%0A\*\*%u975E%u5173%u7CFB%u5F04%u6570%u636E%u5E93%u79CD%u7C7B\*\*%0A-%20key-value%20%u5B58%u50A8%u6570%u636E%u5E93%20%u952E%u503C%u6570%u636E%u5E93%u5C31%u7C7B%u4F3C%u4F20%u7EDF%u8BED%u8A00%u4E2D%u4F7F%u7528%u7684%u54C8%u5E0C%u8868%uFF0C%u53EF%u4EE5%u901Akey%u6765%u6DFB%u52A0%uFF0C%u67E5%u8BE2%u548C%u5220%u9664%u6570%u636E%uFF0C%u56E0%u4E3Akey%u4E3B%u952E%u8BBF%u95EE%uFF0C%u6240%u4EE5%u4F1A%u83B7%u5F97%u5F88%u9AD8%u7684%u6027%u80FD%u53CA%u6269%u5C55%u6027%u3002memcached%20%2C%20redis%2C%28memcachedb%2Cberkeley%20db%29%0A-%20%u5217%u5B58%u50A8%u6570%u636E%u5E93%20%u5217%u5B58%u50A8%u6570%u636E%u5E93%u5C06%u6570%u636E%u50A8%u5B58%u5728%u5217%u7C07%u4E2D%uFF0C%u4E00%u4E2A%u5217%u65CF%u5B58%u50A8%u7ECF%u5E38%u5728%u4E00%u8D77%u67E5%u8BE2%u76F8%u5173%u6570%u636ECASSANDRA%2C%20HBase%0A-%20%u9762%u5411%u6587%u6863%u7684%u6570%u636E%u5E93%28document-oriented%29%20%20mongodb.%0A-%20%u9762%u5411%u56FE%u5F62%u7684%u6570%u636E%u5E93%0A%0A%u5E38%u89C1%u6570%u636E%u5E93%0A1.%20memcached%20%u7EAF%u5C5E%u5185%u5B58%u7F13%u5B58%u8F6F%u4EF6%uFF0C%28K-V%29%uFF0C%u6BD4%u8F83%u65E9%u7684%u975E%u5173%u7CFB%u578B%u6570%u636E%u5E93%20memcachedb%28%u65B0%u6D6A%u5F00%u53D1%29%u53EF%u4EE5%u6301%u4E45%u5316%0A2.%20redis%u652F%u6301%u7684%u6570%u636E%u7C7B%u578B%u66F4%u4E30%u5BCC%uFF0C%0A3.%20mongodb%20%u4ECB%u4E8E%u5173%u7CFB%u6570%u636E%u5E93%u548C%u975E%u5173%u7CFB%u6570%u636E%u5E93%u4E4B%u524D%u7684%u4EA7%u54C1%uFF0C%u5176%u529F%u80FD%u6700%u4E30%u5BCC%uFF0C%u6700%u50CF%u5173%u7CFB%u6570%u636E%u5E93%uFF0C%u4ED6%u652F%u6301%u7684%u6570%u636E%u7ED3%u6784%u975E%u5E38%u677E%u6563%uFF0C%0A4.%20cassandra%20%u7531facebook%u5F00%u53D1%uFF0C%u57FA%u4E8E%u5217%u9AD8%u751F%u4EA7%u578B%uFF0C%0A%0A%0A%23%23%20mysql%u7248%u672C%0A%u8FD9%u91CC%u4E3B%u8981%u4ECB%u7ECD%u5B66%u4E60mysql%uFF0C%u5176%u6709%u4E0B%u9762%u51E0%u4E2A%u4F18%u70B9%uFF1A%0A1.%20%20MySQL%u6027%u80FD%u5353%u8D8A%uFF0C%u670D%u52A1%u7A33%u5B9A%uFF0C%u5F88%u5C11%u51FA%u73B0%u5F02%u5E38%u5B95%u673A%u3002%0A2.%20%20MySQL%u5F00%u653E%u6E90%u4EE3%u7801%u4E14%u65E0%u7248%u6743%u5236%u7EA6%uFF0C%u81EA%u4E3B%u6027%u53CA%u4F7F%u7528%u6210%u672C%u4F4E%u3002%0A3.%20%20MySQL%u5386%u53F2%u60A0%u4E45%uFF0C%u793E%u533A%u53CA%u7528%u6237%u975E%u5E38%u6D3B%u8DC3%uFF0C%u9047%u5230bug.%20%20%u95EE%u9898%uFF0C%u6613%u5BFB%u6C42%u5E2E%u52A9%u3002%0A4.%20%20MySQL%u8F6F%u4EF6%u4F53%u79EF%u5C0F%uFF0C%u5B89%u88C5%u4F7F%u7528%u7B80%u5355%uFF0C%u5E76%u4E14%u6613%u4E8E%u7EF4%u62A4%uFF1B%u5B89%u88C5%u548C%u7EF4%u62A4%u6210%u672C%u4F4E%u3002%0A5.%20%20MySQL%u54C1%u724C%u53E3%u7891%u6548%u5E94%uFF0C%u4F7F%u5F97%u4F01%u4E1A%u65E0%u9700%u8003%u8651%u5C31%u76F4%u63A5%u4F7F%u7528%u4E4B%uFF0CLAMP.%20%20LNMP%u6D41%u884C%u67B6%u6784%u90FD%u53EF%u3002%0A6.%20%20MySQL%u652F%u6301%u591A%u79CD%u64CD%u4F5C%u7CFB%u7EDF%uFF0C%u63D0%u4F9B%u591A%u79CDAPI%u63A5%u53E3%uFF0C%u652F%u6301%u591A%u79CD%u5F00%u53D1%u8BED%u8A00%uFF0C%u7279%u522B%u5BF9%u6D41%u884C%u7684PHP%u8BED%u8A00%u6709%u5F88%u597D%u7684%u652F%u6301%0A%0A%u5176%u4E2Dmysql%u6709%u56DB%u4E2A%u7248%u672Calpha%2C%20beta%2C%20rc%2C%20ga%u7248%u672C%0Amysql%u5546%u4E1A%u7248%uFF0C%u975E%u5E38%u8D35%0A%u5546%u4E1A%u7248%u4E0E%u793E%u533A%u7248%u533A%u522B%0A%u5546%u4E1A%u7247%u7EC4%u7EC7%u7BA1%u7406%u4E0E%u6D4B%u8BD5%u73AF%u8282%u63A7%u5236%u66F4%u4E25%u683C%uFF0C%u7A33%u5B9A%u6027%u65B9%u9762%uFF0C%u4F1A%u6BD4%u793E%u533A%u7248%u672C%u66F4%u7A33%u5B9A%uFF0C%0Amysql%u662F%u6210%u719F%u4EA7%u54C1%uFF0C%0A%u5546%u4E1A%u7248%u4E0D%u9075%u5B88GPL%u534F%u8BAE%uFF0C%u793E%u533A%u7248%u9075%u5B88GPL%u534F%u8BAE%uFF0C%0A%u793E%u533A%u7248%u53EA%u9760%u793E%u533A%u63D0%u4F9B%uFF0C%u65E0%u83B7%u5F97%u6545%u969C%u53CA%u8865%u4E01%u89E3%u51B3%u670D%u52A1%0A%0Aalpha%u7248%uFF0C%u4E0D%u5BF9%u5916%u516C%u5F00%uFF0C%u53EA%u5728%u5F00%u53D1%u7684%u516C%u53F8%u5185%u90E8%u8FD0%u884C%u3002%u4E3B%u8981%u662F%u5F00%u53D1%u8005%u81EA%u5DF1%u5BF9%u4EA7%u54C1%u8FDB%u884C%u6D4B%u8BD5%uFF0C%u68C0%u67E5%u4EA7%u54C1%u662F%u5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9650%uFF0C%u7136%u540E%u4FBF%u53EF%u4EE5%u4F7F%u7528mysql%u8FD9%u4E2A%u811A%u672C%u6765%u542F%u52A8mysql%u4E86%uFF0C%u5176%u5B9Emysql%u53EF%u4EE5%u5199%u6210%u4E00%u4E2A%u811A%u672C%uFF0C%u7136%u540E%u4F20%u5165%u7AEF%u53E3%u53F7%u6765%u542F%u52A8mysql%u5B9E%u4F8B%uFF0C%u4EC5%u9700%u8981%u4FEE%u6539%u4E00%u70B9%u70B9%u5185%u5BB9%uFF0C%u8FD9%u91CC%u5C31%u4E0D%u4FEE%u6539%u4E86%u3002%u5728%u542F%u52A8%u591A%u5B9E%u4F8B%u4E4B%u524D%u9700%u8981%u5148%u521D%u59CB%u5316%u591A%u5B9E%u4F8B%uFF0C%u7136%u540E%u518D%u542F%u52A8%0A%60%60%60bash%0A%24%20find%20/data/%20-type%20f%20-name%20%22mysql%22%7Cxargs%20chmod%20+x%0A%24%20find%20/data/%20-type%20f%20-name%20%22mysql%22%7Cxargs%20ls%20-l%0A-rwxr-xr-x%201%20root%20root%201307%20Jul%2015%20%202013%20/data/3306/mysql%0A-rwxr-xr-x%201%20root%20root%201307%20Jul%2021%20%202013%20/data/3307/mysql%0A%24%20chown%20-R%20mysql.mysql%20/data%0A%23%u7136%u540E%u518D%u521D%u59CB%u5316%u4E00%u4E0B%u4E24%u4E2A%u5B9E%u4F8B%uFF0C%u5982%u679C%u770B%u5230%u4E0B%u9762%u4E24%u4E2AOK%u5C31%u8BC1%u660E%u521D%u59CB%u5316%u5B8C%u6210%0A%24%20./mysql\_install\_db%20--basedir%3D/application/mysql/%20--datadir%3D/data/3306/data%20--user%3Dmysql%0AWARNING%3A%20The%20host%20%27db02%27%20could%20not%20be%20looked%20up%20with%20resolveip.%0AThis%20probably%20means%20that%20your%20libc%20libraries%20are%20not%20100%20%25%20compatible%0Awith%20this%20binary%20MySQL%20version.%20The%20MySQL%20daemon%2C%20mysqld%2C%20should%20work%0Anormally%20with%20the%20exception%20that%20host%20name%20resolving%20will%20not%20work.%0AThis%20means%20that%20you%20should%20use%20IP%20addresses%20instead%20of%20hostnames%0Awhen%20specifying%20MySQL%20privileges%20%21%0AInstalling%20MySQL%20system%20tables...%0AOK%0AFilling%20help%20tables...%0AOK%0A.....%0A%60%60%60%0A%u63A5%u4E0B%u6765%u5C31%u53EF%u4EE5%u5F00%u542F%u6570%u636E%u5E93%u5566%u8FD9%u91CC%u9700%u8981%u6CE8%u610F%u7AEF%u53E3%u53F7%u4E00%u5B9A%u4E0D%u80FD%u9519%0A%60%60%60bash%0A%5Broot@db02%20scripts%5D%23%20/data/3306/mysql%20start%0AStarting%20MySQL...%0A%5Broot@db02%20scripts%5D%23%20/data/3307/mysql%20start%0AStarting%20MySQL...%0A%5Broot@db02%20scripts%5D%23%20netstat%20-lntup%7Cgrep%20330%0Atcp%20%20%20%20%20%20%20%200%20%20%20%20%20%200%200.0.0.0%3A3306%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%200.0.0.0%3A\*%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20LISTEN%20%20%20%20%20%2041608/mysqld%20%20%20%20%20%20%20%20%0Atcp%20%20%20%20%20%20%20%200%20%20%20%20%20%200%200.0.0.0%3A3307%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%200.0.0.0%3A\*%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20LISTEN%20%20%20%20%20%2042326/mysqld%20%0A%0A%24%20mysql%20-uroot%20%20-S%20/data/3306/mysql.sock%0A%23%u8FDB%u5165mysql%0A%24%20echo%20%22%23mysql%20multi%20instances%22%20%3E%3E/etc/rc.local%0A%24%20echo%20%22/data/3306/mysql%20start%22%20%3E%3E/etc/rc.local%0A%24%20echo%20%22/data/3307/mysql%20start%22%20%3E%3E/etc/rc.local%0A%23%u52A0%u5165%u5F00%u673A%u542F%u52A8%0A%24%20mysqladmin%20%20password%20oldboy123%20-S%20/data/3307/mysql.sock%0A%24%20mysqladmin%20%20password%20oldboy123%20-S%20/data/3308/mysql.sock%0A%24%20mysqladmin%20%20password%20oldboy123%20-S%20/data/3308/mysql.sock%0A%23%u8BBE%u7F6E%u5BC6%u7801%0A%60%60%60%0A%u56E0%u4E3A%u9700%u8981%u6743%u9650%u6700%u5C0F%u5316%uFF0C%u6240%u4EE5%u6709%u5FC5%u8981%u5220%u9664%u4E00%u4E9B%u6743%u9650%uFF0C%u8FD9%u91CC%u53EA%u7559%u4E0B%u9762%u4E24%u4E2A%u6743%u9650%0Aroot%20172%2C0%2C0%2C1%0Aroot%20localhost%0A%60%60%60sql%0Amysql%3E%20select%20user%2Chost%20from%20mysql.user%3B%0A+------+-----------+%0A%7C%20user%20%7C%20host%20%20%20%20%20%20%7C%0A+------+-----------+%0A%7C%20root%20%7C%20127.0.0.1%20%7C%0A%7C%20root%20%7C%20%3A%3A1%20%20%20%20%20%20%20%7C%0A%7C%20%20%20%20%20%20%7C%20db02%20%20%20%20%20%20%7C%0A%7C%20root%20%7C%20db02%20%20%20%20%20%20%7C%0A%7C%20%20%20%20%20%20%7C%20localhost%20%7C%0A%7C%20root%20%7C%20localhost%20%7C%0A+------+-----------+%0A6%20rows%20in%20set%20%280.00%20sec%29%0A%0Amysql%3E%20drop%20user%20%22%22@%22db02%22%3B%0AQuery%20OK%2C%200%20rows%20affected%20%280.31%20sec%29%0A%0Amysql%3E%20drop%20user%20%22root%22@%22db02%22%3B%0AQuery%20OK%2C%200%20rows%20affected%20%280.07%20sec%29%0A%0Amysql%3E%20drop%20user%20%22root%22@%22%3A%3A1%22%3B%0AQuery%20OK%2C%200%20rows%20affected%20%280.00%20sec%29%0A%0Amysql%3E%20drop%20user%20%22%22@%22localhost%22%3B%0AQuery%20OK%2C%200%20rows%20affected%20%280.00%20sec%29%0A%0Amysql%3E%20select%20user%2Chost%20from%20mysql.user%3B%0A+------+-----------+%0A%7C%20user%20%7C%20host%20%20%20%20%20%20%7C%0A+------+-----------+%0A%7C%20root%20%7C%20127.0.0.1%20%7C%0A%7C%20root%20%7C%20localhost%20%7C%0A+------+-----------+%0A2%20rows%20in%20set%20%280.00%20sec%29%0A%60%60%60%0A%0A%u589E%u52A0%u4E00%u4E2A%u7528%u6237%u4E0E%u5BF9%u6570%u636E%u5E93%u6388%u6743%0A%60%60%60sql%0Agrant%20all%20on%20mysql.\*%20to%20root@%27localhost%27%20identified%20by%20%27oldboy123%27%3B%0Aflush%20privileges%3B%0A%60%60%60%0A%23%23%23%20%u4FEE%u6539%u5BC6%u7801%0A%u6539%u5BC6%u7801%0A%60%60%60bash%0A%23%u6CD5%u4E00%u76F4%u63A5%u7528mysqladmin%u6765%u4FEE%u6539%0A%24%20mysqladmin%20-uroot%20-poldboy123%20-S%20/data/3306/mysql.sock%20password%20oldboy3306%20%0A%23%u6CD5%u4E8C%20%u767B%u5F55%u8FDB%u53BB%u7528update%0Amysql%3E%20UPDATE%20mysql.user%20SET%20password%3DPASSWORD%28%22oldboy234%22%29%20WHERE%20user%3D%27root%27%20and%20host%3D%27localhost%27%3B%20%0Aselect%20user%2Chost%2Cpassword%20from%20mysql.user%3B%0A%60%60%60%0A%u5F53%u5BC6%u7801%u5FD8%u8BB0%2C%u4FEE%u6539%u5BC6%u7801%uFF0C%u5148%u6740%u6389mysql%u7136%u540E%u4F7F%u7528mysql\_safe%u8DF3%u8FC7%u6388%u6743%u8868%u542F%u52A8%uFF0C%u518D%u66F4%u6539%u5BC6%u7801%uFF0C%u91CD%u542F%0A%60%60%60bash%0Amysqld\_safe%20--defaults-file%3D/data/3308/my.cnf%20--skip-grant-tables%0Amysql%20-S%20/data/3306/mysql.sock%0Amysql%3E%20UPDATE%20mysql.user%20SET%20password%3DPASSWORD%28%22oldboy234%22%29%20WHERE%20user%3D%27root%27%20and%20host%3D%27localhost%27%3B%20%0Aflush%20privileges%3B%0A/data/3306/mysql%20start%0A%60%60%60%0A%20%0A%23%23%23%20mysql%u5F00%u542F%u5173%u95ED%u91CD%u542F%u539F%u7406%0A%u8FD9%u91CC%u6211%u4EEC%u5F15%u4E3Bmysql%u5355%u5B9E%u4F8B%u7684%u65F6%u5019%u5982%u4F55%u5B9E%u73B0%u4E0A%u9762%u4E09%u4E2A%u6B65%u9AA4%0A%0A%u542F%u52A8%u4E0E%u5173%u95EDmysql%0A%60%60%60bash%0A/etc/init.d/mysqld%20restart%0Aps%20-ef%20%3A3306%20%20%23%u67E5%u770B%u8FDB%u7A0B%0Anetstat%20-lntup%7Cgrep%203306%20%23%u67E5%u770B%u7AEF%u53E3%0A%60%60%60%0A%0A%0A%u542F%u52A83306%u5B9E%u4F8B%u547D%u4EE4%uFF1A%0A%0A/data/3306/mysql%20start%2C%20%u76F8%u5F53%u4E8E%0Amysqld\_safe%20--defaults-file%3D/data/3306/my.cnf%202%3E%261%20%3E%20/dev/null%20%26%0A%0A%u505C%u6B623306%u5B9E%u4F8B%u547D%u4EE4%uFF1A%0A/data/3306/mysql%20stop%20%20%u76F8%u5F53%u4E8E%0Amysqladmin%20-uroot%20-poldboy123%20-S%20/data/3306/mysql.sock%20shutdown%0A%0A%0A/etc/init.d/mysqld%20start%20%u76F8%u5F53%u4E8Emysql\_safe%202%3E%261%20%3E/dev/null%0A/etc/init.d/mysqld%20stop%20%u76F8%u5F53%u4E8E%20kill%20pidnum%0A%0A\*\*%u4E00%u5B9A%u4E00%u5B9A%u4E0D%u8981%u7528%60kill%20-9%60%u6765%u7ED3%u675Fmysql\*\*%0A%0A%u5F3A%u8C03%uFF1A%u5C3D%u91CF%u4E0D%u8981%u91CE%u86EE%u7C97%u9C81%u6740%u6B7B%u6570%u636E%u5E93%uFF0C%u751F%u4EA7%u9AD8%u5E76%u53D1%u73AF%u5883%u53EF%u80FD%u4F1A%u5F15%u8D77%u6570%u636E%u4E22%u5931%u3002%0A%u91CE%u86EE%u7C97%u9C81%u6740%u6B7B%u6570%u636E%u5E93%u5BFC%u81F4%u6545%u969C%u4F01%u4E1A%u6848%u4F8B%uFF1A%0Ahttp%3A//oldboy.blog.51cto.com/2561410/1431161%0Ahttp%3A//oldboy.blog.51cto.com/2561410/1431172%0A%0A%0A%0A%0A%23%23%20SQL%u7ED3%u6784%u5316%u67E5%u8BE2%u8BED%u8A00%0Astructured%20query%20language%2C%20%u662F%u5173%u7CFB%u578B%u6570%u636E%u8FDB%u884C%u5B9A%u4E49%u548C%u64CD%u4F5C%u7684%u8BED%u8A00%u65B9%u6CD5%uFF0C%u662F%u5927%u591A%u6570%u5173%u7CFB%u6570%u636E%u5E93%u7BA1%u7406%u7CFB%u7EDF%u6276%u6301%u7684%u5DE5%u4E1A%u6807%u51C6%u3002%0A%u5206%u7C7B%0A-%20DDL%28data%20definition%20laguage%29%20%u6570%u636E%u5B9A%u4E49%u8BED%u8A00%20CREATE%20ALTER%20DROP%20%20%u5FC5%u987B%u719F%u7EC3%0A-%20DCL%28data%20control%20language%29%20%u6570%u636E%u63A7%u5236%u8BED%u8A00%20GRANGT%20REVOKE%20COMMIT%20ROLLBACK%2C%20%u7528%u6237%20%u6388%u6743%uFF0C%u6743%u9650%u56DE%u6536%uFF0C%u6570%u636E%u63D0%u4EA4%u56DE%0A-%20DML%20%28data%20manipulation%20language%29%20%u6570%u636E%u64CD%u4F5C%u8BED%u8A00select%20insert%2C%20delete%20update%u5BF9%u6570%u636E%u91CC%u7684%u8868%u91CC%u7684%u6570%u636E%u8FDB%u884C%u64CD%u4F5C%0A%0A%u4E0B%u9762%u6765%u64CD%u4F5C%u4E00%u4E0B%20%0A%60%60%60sql%0Amysql%3E%20show%20create%20database%20sandow%3B%0A+----------+-----------------------------------------------------------------+%0A%7C%20Database%20%7C%20Create%20Database%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%20%7C%0A+----------+-----------------------------------------------------------------+%0A%7C%20sandow%20%20%20%7C%20CREATE%20DATABASE%20%60sandow%60%20/\*%2140100%20DEFAULT%20CHARACTER%20SET%20utf8%20\*/%20%7C%0A+----------+-----------------------------------------------------------------+%0A1%20row%20in%20set%20%280.00%20sec%29%0A%0Amysql%3E%20create%20database%20oldboy\_gbk%20character%20set%20gbk%20collate%20gbk\_chinese\_ci%3B%0Amysql%3E%20create%20database%20oldboy%3B%20%20%23%u9ED8%u8BA4%u6570%u636E%u5E93%u914D%u7F6E%uFF0C%u76F8%u5F53%u4E8E%u521B%u5EFA%u62C9%u4E01%u5B57%u7B26%u96C6%u6570%u636E%u5E93%u3002%0Amysql%3E%20create%20database%20oldboy\_gbk%20DEFAULT%20CHARACTER%20SET%20gbk%20COLLATE%20gbk\_chinese\_ci%3B%20%20%20%20%23%20%u521B%u5EFAgbk%u5B57%u7B26%u96C6%u6570%u636E%u5E93%0Amysql%3E%20create%20database%20oldboy\_utf8%20DEFAULT%20CHARACTER%20SET%20utf8%20%20COLLATE%20utf8\_general\_ci%3B%20%20%23%20%u521B%u5EFAutf8%u5B57%u7B26%u96C6%u6570%u636E%u5E93%0A%0Amysql%3E%20show%20character%20set%3B%20%23%u67E5%u770B%u5B57%u7B26%u96C6%0Amysql%3E%20show%20databases%20like%20%27oldboy%27%3B%20%23%u67E5%u770B%u6570%u636E%u5E93%0A+-------------------+%0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