下载与安装

环境Centos7

添加MySQL5.7仓库

```
sudo rpm -ivh https://dev.mysql.com/get/mysql57-community-release-el7-
11.noarch.rpm
```

解决证书问题

```
rpm --import https://repo.mysql.com/RPM-GPG-KEY-mysql-2022
```

查看是否添加成功

```
sudo yum repolist all | grep mysql | grep 启用
mysql-connectors-community/x86_64 MySQL Connectors Community 启用: 213
mysql-tools-community/x86_64 MySQL Tools Community 启用: 96
mysql57-community/x86_64 MySQL 5.7 Community Server 启用: 642
```

MySQL安装

```
sudo yum -y install mysql-community-server
```

运行与密码修改

Centos7中安装目录查看,在/usr/bin中,与Max有所不同

```
whereis mysql
mysql: /usr/bin/mysql /usr/lib64/mysql /usr/share/mysql
/usr/share/man/man1/mysql.1.gz
ls /usr/bin |grep mysql
mysql
mysqladmin
mysqlbinlog
mysqlcheck
mysql_config_editor
mysqld_pre_systemd
mysqldump
mysqldumpslow
mysqlimport
mysql_install_db
mysql_plugin
mysq1pump
mysql_secure_installation
mysqlshow
mysqlslap
```

```
mysql_ssl_rsa_setup
mysql_tzinfo_to_sql
mysql_upgrade
```

添加mysqld目录到环境变量中(这里可省略,因为mysqld默认在/usr/bin中了

启动MySQL(和书上说的启动方式有点不一样,查资料得知,从5.7.6起,不再支持mysql_safe的启动方式)

```
# 启动MySQL
root@centos7101:~
▶ systemctl start mysqld
# 查看MySQL状态
root@centos7101:~
▶ systemctl status mysqld
• mysqld.service - MySQL Server
  Loaded: loaded (/usr/lib/systemd/system/mysqld.service; enabled; vendor
preset: disabled)
  Active: active (running) since - 2023-04-17 11:43:42 CST; 19s ago
    Docs: man:mysqld(8)
           http://dev.mysql.com/doc/refman/en/using-systemd.html
Main PID: 2182 (mysqld)
  CGroup: /system.slice/mysqld.service
           └─2182 /usr/sbin/mysqld --daemonize --pid-
file=/var/run/mysqld/mysqld.pid
4月 17 11:43:37 centos7101 systemd[1]: Starting MySQL Server...
4月 17 11:43:42 centos7101 systemd[1]: Started MySQL Server.
# 设置为开机启动
root@centos7101:~
▶ systemctl enable mysqld
```

查看MySQL默认密码

```
cat /var/log/mysqld.log |grep -i 'temporary password'
2023-04-17T03:43:38.995935Z 1 [Note] A temporary password is generated for
root@localhost: ampddi9+fpyQ
```

连接

```
mysql -uroot -p123456
#或者
mysql -uroot -p
#或者
mysql -hlocalhost -uroot -p123456
```

```
# 修改密码强度
set global validate_password_policy=LOW;
#修改密码长度
set global validate_password_length=6;
#修改密码
ALTER USER 'root'@'localhost' IDENTIFIED BY '123456';
#刷新权限
flush privileges;
```

退出

```
quit
#或者
exit
#或者
\q
```

客户端与服务端连接过程

采用TCP作为服务端和客户端之间的网络通信协议

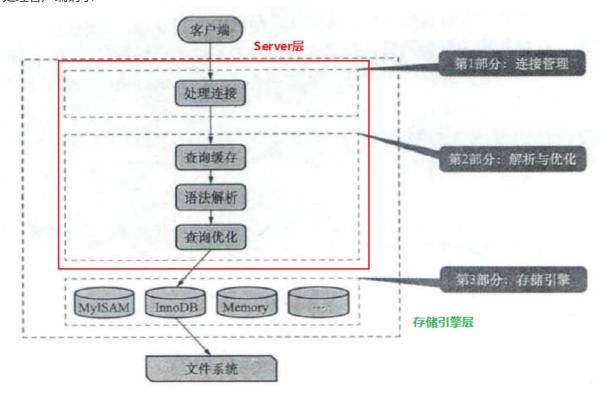
远程连接前提

```
#添加一个远程用户
CREATE USER 'root'@'%' IDENTIFIED BY '123456.';
grant all on *.* to 'root'@'%' identified by "123456." with grant option;
#修改用户密码
SET PASSWORD FOR 'root'@'host' = password('123456.');
```

端口号修改与远程连接

```
#修改MySQL启动的端口
vim /etc/my.cnf

[mysqld]
port=33062 #新增该行即可
#重启
systemctl restart mysqld
#查看状态
systemctl status mysqld
#查看服务是否启动
netstat -lntup |grep mysql
tcp6 0 0 :::33062 :::* LISTEN
4612/mysqld
#远程连接
mysql -hnode2 -uroot -P33062 -p
```



常用存储引擎: Innodb和MyISAM

查看当前服务器支持的存储引擎

Engine	Support	Comment	Transactions	XA	Savepoint
InnoDB	DEFAULT	+	+ YES	+ YES	+ YES
MRG MYISAM	YES	Collection of identical MyISAM tables	NO	NO	NO
MEMORY	YES	Hash based, stored in memory, useful for temporary tables	NO	NO	NO
BLACKHOLE	YES	/dev/null storage engine (anything you write to it disappears)	NO	NO	NO
MyISAM	YES	MyISAM storage engine	NO	NO	NO
cśv	YES	CSV storage engine	NO	NO	NO
ARCHIVE	YES	Archive storage engine	NO	NO	NO
PERFORMANCE_SCHEMA	YES	Performance Schema	NO	NO	NO
FEDERATED	NO	Federated MySQL storage engine	NULL	NULL	NULL

只有InnoDB是支持事务的且支持分布式事务、部分回滚

存储引擎是负责对表中数据进行读取和写入的