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成都国铁电气设备有限公司信息工程部

铁科数据库升级与数据迁移

保密级别：□绝密 □机密 □秘密 ☑内部公开

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铁科数据库升级与数据迁移

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| **版本号** | **修订状态** | **修订内容** | **修订人** | **修订日期** | **审核人** | **审核日期** |
| V1.0 | C | 创建 | 楚学亮 | 2019-12-03 |  |  |
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\*修订状态：C——创建，A——增加，M——修改，D——删除

# 数据库升级

## 准备工作

### 源数据目录备份

压缩源数据库的配制文件参数datadir所指的文件夹，以作源数据库备份。

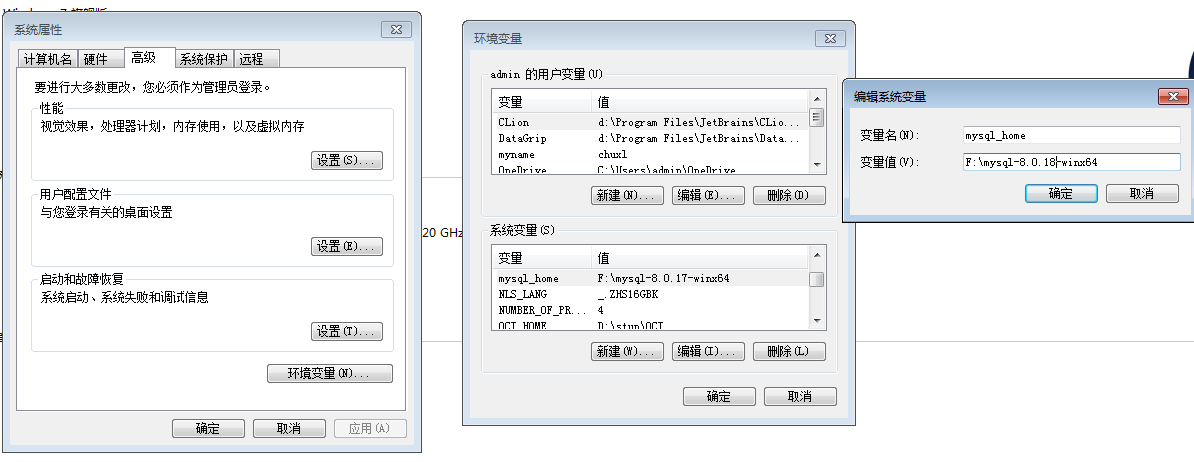
### 下载数据库软件版本mysql-8.0.18

在mysql官方网，下载数据库版本mysql-8.0.18，文件名为mysql-8.0.18-winx64.zip。

## 配制环境变量及参数文件

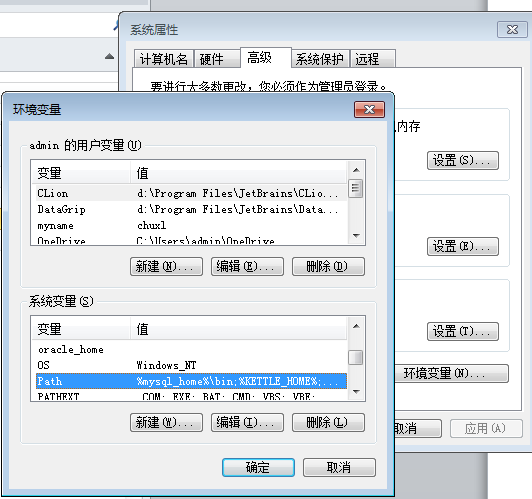
### mysql\_home

mysql\_home=F:\mysql-8.0.18-winx64



### Path

Path=%mysql\_home%\bin;%path%



### Mysql启动参数文件

## 安装mysql-8.0.18

### 指定安装路径

复制文件mysql-8.0.18-winx64.zip到安装路径，并解压。

### 源数据库备份

复制源数据库备份到参数datadir配制的目录

### 以系统管理员身份启动command

### 删除服务

F:\mysql-8.0.18-winx64>**sc delete mysql**

[SC] DeleteService 成功

### 安装服务

F:\mysql-8.0.18-winx64\bin>**mysqld install**

Service successfully installed.

## 升级步骤

### 启动服务

F:\mysql-8.0.18-winx64\bin>**net start mysql**

MySQL 服务正在启动 ........

MySQL 服务无法启动。

请键入 NET HELPMSG 3523 以获得更多的帮助。

### 执行升级

F:\mysql-8.0.18-winx64\bin>**mysqld --upgrade force**

### 停数据库服务

F:\mysql-8.0.18-winx64\bin>

F:\mysql-8.0.18-winx64\bin>net stop mysql

MySQL 服务正在停止.

MySQL 服务已成功停止。

F:\mysql-8.0.18-winx64\bin>

### 重新启动数据库服务

F:\mysql-8.0.18-winx64\bin>**net start mysql**

MySQL 服务正在启动 .......

MySQL 服务已经启动成功。

## 升级验证

### 连接数据库mysql

F:\mysql-8.0.18-winx64\bin>**mysql -uroot -p123456Aa**

mysql: [Warning] Using a password on the command line interface can be insecure.

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 13

Server version: 8.0.18 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>

### 检查数据库

mysql>

mysql> **show databases**

-> ;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| mysql |

| performance\_schema |

| sys |

| train6c |

+--------------------+

5 rows in set (0.03 sec)

mysql>

### 检查表数据

mysql>

mysql> use train6c

Database changed

mysql>

mysql> select count(\*) from alarm;

+----------+

| count(\*) |

+----------+

| 9720 |

+----------+

1 row in set (13.12 sec)

mysql>

# 数据迁移部分

## 创建迁移对象

CREATE TABLE nos\_ab  
(  
 **ID** VARCHAR(128) NOT NULL,  
 **INPUTDATE** DATETIME,  
 **CONTENT** TEXT  
) ENGINE = InnoDB  
;  
  
CREATE TABLE nos\_ac  
(  
 **ID** VARCHAR(128) NOT NULL,  
 **INPUTDATE** DATETIME,  
 **CONTENT** TEXT  
) ENGINE = InnoDB  
;  
  
CREATE TABLE nos\_ad  
(  
 **ID** VARCHAR(128) NOT NULL,  
 **INPUTDATE** DATETIME,  
 **CONTENT** TEXT  
) ENGINE = InnoDB  
;  
  
CREATE TABLE nos\_ae  
(  
 **ID** VARCHAR(128) NOT NULL,  
 **INPUTDATE** DATETIME,  
 **CONTENT** TEXT  
) ENGINE = InnoDB  
;  
  
CREATE TABLE nos\_af  
(  
 **ID** VARCHAR(128) NOT NULL,  
 **INPUTDATE** DATETIME,  
 **CONTENT** TEXT  
) ENGINE = InnoDB  
;  
  
CREATE TABLE nos\_aa  
(  
 **ID** VARCHAR(128) NOT NULL,  
 **INPUTDATE** DATETIME,  
 **CONTENT** TEXT  
) ENGINE = InnoDB

;

CREATE TABLE `nos\_ba`  
(  
 **`ID`** VARCHAR(128),  
 **`CONTENT`** TEXT  
) ENGINE = InnoDB;  
  
CREATE TABLE `nos\_bc`  
(  
 **`ID`** VARCHAR(128),  
 **`CONTENT`** TEXT  
) ENGINE = InnoDB;  
  
CREATE TABLE `nos\_bd`  
(  
 **`ID`** VARCHAR(128),  
 **`CONTENT`** TEXT  
) ENGINE = InnoDB;  
  
CREATE TABLE `nos\_be`  
(  
 **`ID`** VARCHAR(128),  
 **`CONTENT`** TEXT  
) ENGINE = InnoDB;  
  
CREATE TABLE `nos\_bf`  
(  
 **`ID`** VARCHAR(128),  
 **`CONTENT`** TEXT  
) ENGINE = InnoDB;  
  
CREATE TABLE `nos\_bg`  
(  
 **`ID`** VARCHAR(128),  
 **`CONTENT`** TEXT  
) ENGINE = InnoDB;  
  
CREATE TABLE `nos\_bh`  
(  
 **`ID`** VARCHAR(128),  
 **`CONTENT`** TEXT  
) ENGINE = InnoDB;  
  
CREATE TABLE `nos\_bb`  
(  
 **`ID`** VARCHAR(128),  
 **`CONTENT`** TEXT  
) ENGINE = InnoDB;

CREATE TABLE `nos\_log`  
(  
 **`id`** INT(11) NOT NULL AUTO\_INCREMENT,  
 **`raised\_time\_start`** DATETIME DEFAULT NULL,  
 **`raised\_time\_end`** DATETIME DEFAULT NULL,  
 **`tableName`** VARCHAR(255) DEFAULT NULL,  
 **`SaveCount`** INT(255) DEFAULT NULL,  
 **`state`** INT(255) DEFAULT NULL,  
 **`instart`** DATETIME DEFAULT NULL,  
 **`endstart`** DATETIME DEFAULT NULL,  
 **`Querystart`** DATETIME DEFAULT NULL,  
 **`Queryend`** DATETIME DEFAULT NULL,  
 PRIMARY KEY (**`id`**)  
) ENGINE = InnoDB;

## 表分区

### alarm\_img\_data\_no\_need

#### 分区脚本

CREATE TABLE `alarm\_img\_data\_no\_need`

(

`alarm\_id` VARCHAR(40) NOT NULL,

`spart\_pixels` INT(11) DEFAULT NULL,

`gray\_avg\_left` INT(11) DEFAULT NULL,

`gray\_avg\_right` INT(11) DEFAULT NULL,

`gray\_avg\_bow\_rect` INT(11) DEFAULT NULL,

`spart\_pixel\_pct` DECIMAL(5, 2) DEFAULT NULL,

`spark\_shape` INT(11) DEFAULT NULL,

`spark\_num` INT(11) DEFAULT NULL,

`spark\_elapse` INT(11) DEFAULT NULL,

`isblackcenter` INT(11) DEFAULT NULL,

`raise\_time` DATETIME NOT NULL,

`dev\_type\_ana` VARCHAR(40) DEFAULT NULL

)

ENGINE = InnoDB

PARTITION BY RANGE COLUMNS (raise\_time)

(

PARTITION p\_20180101 VALUES LESS THAN ('2018-01-01')

)

;

#### 分区过程

CREATE PROCEDURE *p\_gen\_part\_img\_data\_no\_need*( )  
BEGIN  
 DECLARE ***v\_max\_date***,***v\_pdate*** DATETIME;  
 DECLARE ***v\_sql***,***v\_psql***,***v\_pn***,***v\_pv***,***v\_pd*** TEXT;  
  
 SET ***v\_psql*** =  
 "alter table alarm\_img\_data\_no\_need  
 add partition(partition p\_:pn values less than (':pv'))  
 ";  
  
 SET ***v\_max\_date*** := *current\_date*;  
 SET ***v\_pdate*** := '2018-01-02';  
  
 WHILE ***v\_pdate*** <= ***v\_max\_date*** DO  
 SET ***v\_pn*** = *date\_format*(***v\_pdate***, '%Y%m%d');  
 SET ***v\_pv*** = *date\_format*(***v\_pdate***, '%Y-%m-%d');  
 SET ***v\_sql*** = *replace*(***v\_psql***, ':pn', ***v\_pn***);  
 SET ***v\_sql*** = *replace*(***v\_sql***, ':pv', ***v\_pv***);  
 SET @sql = ***v\_sql***;  
  
 PREPARE stat\_partition FROM @sql;  
 EXECUTE stat\_partition;  
 DEALLOCATE PREPARE stat\_partition;  
  
 SET ***v\_pdate*** := ***v\_pdate*** + INTERVAL 1 DAY;  
 END WHILE;  
  
END ;

#### 生成分区

call p\_gen\_part\_img\_data\_no\_need();

#### 填充数据

INSERT INTO alarm\_img\_data\_no\_need   
SELECT \*  
FROM alarm\_img\_data

### alarm\_aux\_no\_need

#### 分区脚本

CREATE TABLE alarm\_aux\_no\_need  
(  
 **`alarm\_id`** VARCHAR(40) DEFAULT NULL,  
 **`id`** VARCHAR(40) NOT NULL,  
 **`bmi\_file\_name`** VARCHAR(256) DEFAULT NULL,  
 **`rpt\_file\_name`** VARCHAR(256) DEFAULT NULL,  
 **`alarm\_rep\_count`** INT(11) DEFAULT NULL,  
 **`bow\_offset`** DECIMAL(7, 2) DEFAULT NULL,  
 **`gps\_body\_direction`** INT(11) DEFAULT NULL,  
 **`img\_body\_direction`** INT(11) DEFAULT NULL,  
 **`reportwordstatus`** VARCHAR(5) DEFAULT NULL,  
 **`reportwordurl`** VARCHAR(500),  
 **`aflg\_code`** VARCHAR(200) DEFAULT NULL,  
 **`aflg\_name`** VARCHAR(200),  
 **`isexportreport`** VARCHAR(1) DEFAULT NULL,  
 **`initial\_code`** VARCHAR(40) DEFAULT NULL,  
 **`initial\_code\_name`** VARCHAR(60),  
 **`accesscount`** INT(11) DEFAULT NULL,  
 **`acflag\_code`** VARCHAR(40) DEFAULT NULL,  
 **`acflag\_name`** VARCHAR(60),  
 **`lock\_person\_name`** VARCHAR(100) DEFAULT NULL,  
 **`lock\_person`** VARCHAR(40),  
 **`lock\_time`** DATETIME DEFAULT NULL,  
 **`is\_trans\_allowed`** INT(11) DEFAULT NULL,  
 **`confidence\_level`** INT(11) DEFAULT NULL,  
 **`map\_add\_ima`** TEXT,  
 **`vi\_add\_ima`** TEXT,  
 **`oa\_add\_ima`** TEXT,  
 **`sample\_code`** VARCHAR(40),  
 **`sample\_name`** VARCHAR(60),  
 **`sample\_detail\_code`** VARCHAR(100),  
 **`sample\_detail\_name`** VARCHAR(100),  
 **`rerun\_type`** INT(11) DEFAULT NULL,  
 **`raised\_time\_aux`** DATETIME DEFAULT NULL,  
 **`algcode`** VARCHAR(50),  
 **`scencesample\_code`** TEXT,  
 **`scencesample\_name`** TEXT,  
 **`is\_abnormal`** VARCHAR(10) DEFAULT NULL,  
 **`algcodename`** VARCHAR(50),  
 **`LOCK\_PERSON\_ID`** VARCHAR(40) DEFAULT NULL  
) ENGINE = InnoDB  
 PARTITION BY RANGE COLUMNS (**raised\_time\_aux**)  
 (PARTITION p\_20180101 VALUES LESS THAN ('20180101'))

#### 分区过程

CREATE PROCEDURE *p\_gen\_part\_aux\_no\_need*( )  
BEGIN  
 DECLARE ***v\_max\_date***,***v\_pdate*** DATETIME;  
 DECLARE ***v\_sql***,***v\_psql***,***v\_pn***,***v\_pv***,***v\_pd*** TEXT;  
  
 SET ***v\_psql*** =  
 "alter table alarm\_aux\_no\_need  
 add partition(partition p\_:pn values less than (':pv'))  
 ";  
  
 SET ***v\_max\_date*** := *current\_date*;  
 SET ***v\_pdate*** := '2018-01-02';  
  
 WHILE ***v\_pdate*** <= ***v\_max\_date*** DO  
 SET ***v\_pn*** = *date\_format*(***v\_pdate***, '%Y%m%d');  
 SET ***v\_pv*** = *date\_format*(***v\_pdate***, '%Y-%m-%d');  
 SET ***v\_sql*** = *replace*(***v\_psql***, ':pn', ***v\_pn***);  
 SET ***v\_sql*** = *replace*(***v\_sql***, ':pv', ***v\_pv***);  
 SET @sql = ***v\_sql***;  
  
 PREPARE stat\_partition FROM @sql;  
 EXECUTE stat\_partition;  
 DEALLOCATE PREPARE stat\_partition;  
  
 SET ***v\_pdate*** := ***v\_pdate*** + INTERVAL 1 DAY;  
 END WHILE;  
  
END ;

#### 生成分区

call p\_gen\_part\_aux\_no\_need();

#### 填充数据

INSERT INTO alarm\_aux\_no\_need   
SELECT \*  
FROM alarm\_aux

## 执行数据迁移工具

## 完成迁移后相关部分

### 表alarm\_hist

ALTER TABLE alarm\_hist  
 ADD **pid** VARCHAR(50) FIRST;  
  
ALTER TABLE alarm\_hist  
 ADD PRIMARY KEY (**pid**);  
  
ALTER TABLE alarm\_hist RENAME COLUMN id TO **alarm\_id**;

### 删除不用字段

#### tsys\_org

alter table tsys\_org DROP **org\_name**;  
alter table tsys\_org drop **sup\_org\_name**;

#### sys\_dic

alter table sys\_dic drop **code\_name** ;

#### mis\_paramter

alter table mis\_paramter drop **value** ;

#### virtual\_dir\_info

alter table virtual\_dir\_info drop **physical\_dir\_path** ;  
alter table virtual\_dir\_info drop **path** ;

#### locomotive

alter table locomotive drop **p\_org\_name** ;  
alter table locomotive drop **org\_name** ;  
alter table locomotive drop **bureau\_name** ;  
alter table locomotive drop **phone\_number** ;  
alter table locomotive drop **bow\_offsets** ;  
alter table locomotive drop **eoas\_offsets** ;

#### mis\_brg\_tun

alter table mis\_brg\_tun drop **brg\_tun\_name** ;  
alter table mis\_brg\_tun drop **position\_name** ;

#### mis\_line

alter table mis\_line drop **line\_name** ;  
alter table mis\_line drop **bureau\_name** ;

#### mis\_position

alter table mis\_position drop **position\_name** ;  
alter table mis\_position drop **line\_name** ;  
alter table mis\_position drop **org\_name** ;  
alter table mis\_position drop **workshop\_name** ;  
alter table mis\_position drop **power\_section\_name**;  
alter table mis\_position drop **bureau\_name** ;

#### alarm

alter table alarm drop **LINE\_NAME**;  
alter table alarm drop **POSITION\_NAME**;  
alter table alarm drop **BRG\_TUN\_NAME**;  
alter table alarm drop **P\_ORG\_NAME**;  
alter table alarm drop **ORG\_NAME**;  
alter table alarm drop **WORKSHOP\_NAME**;  
alter table alarm drop **POWER\_SECTION\_NAME**;  
alter table alarm drop **BUREAU\_NAME**;  
alter table alarm drop **SUBSTATION\_NAME**;  
alter table alarm drop **CODE\_NAME**;  
alter table alarm drop **STATUS\_NAME**;  
alter table alarm drop **GIS\_X**;  
alter table alarm drop **GIS\_Y**;  
alter table alarm drop **GIS\_X\_O**;  
alter table alarm drop **GIS\_Y\_O**;  
alter table alarm drop **SUMMARY**;  
alter table alarm drop **DETAIL**;  
alter table alarm drop **PROPOSAL**;  
alter table alarm drop **DIR\_PATH**;  
alter table alarm drop **SVALUE1**;  
alter table alarm drop **SVALUE2**;  
alter table alarm drop **SVALUE3**;  
alter table alarm drop **SVALUE4**;  
alter table alarm drop **SVALUE5**;  
alter table alarm drop **SVALUE9**;  
alter table alarm drop **SVALUE11**;  
alter table alarm drop **SVALUE14**;  
alter table alarm drop **EOAS\_TRAINNO**;  
alter table alarm drop **DEVICE\_ID**;  
alter table alarm drop **NVALUE10** ;

#### alarm\_hist

alter table alarm\_hist drop **LINE\_NAME**;  
alter table alarm\_hist drop **POSITION\_NAME**;  
alter table alarm\_hist drop **BRG\_TUN\_NAME**;  
alter table alarm\_hist drop **P\_ORG\_NAME**;  
alter table alarm\_hist drop **ORG\_NAME**;  
alter table alarm\_hist drop **WORKSHOP\_NAME**;  
alter table alarm\_hist drop **POWER\_SECTION\_NAME**;  
alter table alarm\_hist drop **BUREAU\_NAME**;  
alter table alarm\_hist drop **SUBSTATION\_NAME**;  
alter table alarm\_hist drop **CODE\_NAME**;  
alter table alarm\_hist drop **STATUS\_NAME**;  
alter table alarm\_hist drop **GIS\_X**;  
alter table alarm\_hist drop **GIS\_Y**;  
alter table alarm\_hist drop **GIS\_X\_O**;  
alter table alarm\_hist drop **GIS\_Y\_O**;  
alter table alarm\_hist drop **SUMMARY**;  
alter table alarm\_hist drop **DETAIL**;  
alter table alarm\_hist drop **PROPOSAL**;  
alter table alarm\_hist drop **DIR\_PATH**;  
alter table alarm\_hist drop **SVALUE1**;  
alter table alarm\_hist drop **SVALUE2**;  
alter table alarm\_hist drop **SVALUE3**;  
alter table alarm\_hist drop **SVALUE4**;  
alter table alarm\_hist drop **SVALUE5**;  
alter table alarm\_hist drop **SVALUE9**;  
alter table alarm\_hist drop **SVALUE11**;  
alter table alarm\_hist drop **SVALUE14**;  
alter table alarm\_hist drop **EOAS\_TRAINNO**;  
alter table alarm\_hist drop **DEVICE\_ID**;  
alter table alarm\_hist drop **NVALUE10** ;

#### alarm\_aux

alter table alarm\_aux drop **AFLG\_NAME**;  
alter table alarm\_aux drop **INITIAL\_CODE\_NAME**;  
alter table alarm\_aux drop **ACFLAG\_NAME**;  
alter table alarm\_aux drop **MAP\_ADD\_IMA**;  
alter table alarm\_aux drop **VI\_ADD\_IMA**;  
alter table alarm\_aux drop **OA\_ADD\_IMA**;  
alter table alarm\_aux drop **SAMPLE\_NAME**;  
alter table alarm\_aux drop **SCENCESAMPLE\_NAME**;  
alter table alarm\_aux drop **SAMPLE\_CODE**;  
alter table alarm\_aux drop **SAMPLE\_DETAIL\_CODE**;  
alter table alarm\_aux drop **SAMPLE\_DETAIL\_NAME**;  
alter table alarm\_aux drop **ALGCODE**;  
alter table alarm\_aux drop **SCENCESAMPLE\_CODE**;  
alter table alarm\_aux drop **ALGCODENAME**;

#### alarm\_img\_data

alter table alarm\_img\_data drop **SPART\_PIXELS**;  
alter table alarm\_img\_data drop **GRAY\_AVG\_LEFT**;  
alter table alarm\_img\_data drop **GRAY\_AVG\_RIGHT**;  
alter table alarm\_img\_data drop **GRAY\_AVG\_BOW\_RECT**;  
alter table alarm\_img\_data drop **SPART\_PIXEL\_PCT**;  
alter table alarm\_img\_data drop **SPARK\_SHAPE**;  
alter table alarm\_img\_data drop **SPARK\_NUM**;

#### c3\_sms

alter table c3\_sms drop **LINE\_NAME**;  
alter table c3\_sms drop **POSITION\_NAME**;  
alter table c3\_sms drop **GIS\_LON\_O**;  
alter table c3\_sms drop **GIS\_LAT\_O**;  
alter table c3\_sms drop **GIS\_LON**;  
alter table c3\_sms drop **GIS\_LAT**;  
alter table c3\_sms drop **BUREAU\_NAME**;  
alter table c3\_sms drop **P\_ORG\_NAME**;  
alter table c3\_sms drop **POWER\_SECTION\_NAME**;  
alter table c3\_sms drop **ORG\_NAME**;  
alter table c3\_sms drop **ROUTING\_NO**;  
alter table c3\_sms drop **AREA\_NO**;  
alter table c3\_sms drop **STATION\_NO**;  
alter table c3\_sms drop **STATION\_NAME**;  
alter table c3\_sms drop **TRAIN\_NO**;  
alter table c3\_sms drop **POLE\_CODE**;  
alter table c3\_sms drop **POLE\_NO**;  
alter table c3\_sms drop **log\_filename**;  
alter table c3\_sms drop **log\_file\_path** ;

#### getfiletask\_queue

alter table getfiletask\_queue drop **fileurl\_net** ;

#### filetaskdata

ALTER TABLE filetaskdata DROP **IRV\_DIRID**;  
ALTER TABLE filetaskdata DROP **VI\_DIRID**;  
ALTER TABLE filetaskdata DROP **OV\_DIRID**;  
ALTER TABLE filetaskdata DROP **AUX\_DIRID**;  
ALTER TABLE filetaskdata DROP SCS\_DIRID;  
ALTER TABLE filetaskdata DROP MP4\_DIRID;

Ta

### 创建主键

alter table nos\_aa add primary key(id) ;  
alter table nos\_ab add primary key(id) ;  
alter table nos\_ac add primary key(id) ;  
alter table nos\_ad add primary key(id) ;  
alter table nos\_ae add primary key(id) ;  
alter table nos\_af add primary key(id) ;  
alter table nos\_ba add primary key(id) ;  
alter table nos\_bb add primary key(id) ;  
alter table nos\_bc add primary key(id) ;  
alter table nos\_bd add primary key(id) ;  
alter table nos\_be add primary key(id) ;  
alter table nos\_bf add primary key(id) ;  
alter table nos\_bg add primary key(id) ;  
alter table nos\_bh add primary key(id) ;

### 删除不用表

1. 如下脚本是，根据保留的表查询出要删除的表，一定用正确的数据库名替换脚本中的“？”

SELECT *concat*('drop table ',t.**TABLE\_NAME**,';') be\_droped\_tables  
FROM information\_schema.TABLES t  
WHERE t.**TABLE\_SCHEMA** = '?'  
 AND **TABLE\_NAME** NOT IN (  
 'virtual\_dir\_info',  
 'sys\_dic',  
 'tsys\_org',  
 'locomotive',  
 'mis\_brg\_tun',  
 'mis\_line',  
 'mis\_lkj',  
 'mis\_paramter',  
 'mis\_pole',  
 'mis\_pole\_aux',  
 'mis\_position',  
 'duty\_range',  
 'tsys\_user',  
 'xt\_button',  
 'xt\_funmenu',  
 'xt\_funmenu\_button',  
 'button\_authority',  
 'datapermisson',  
 'funpermission',  
 'trans\_data',  
 'mis\_sys\_dc',  
 'mis\_sys\_dc\_org\_map',  
 'mis\_sys\_fault\_extern',  
 'mis\_sys\_org\_ext',  
 'special\_workdays',  
 'tsys\_user\_sm',  
 'alarm',  
 'alarm\_aux',  
 'alarm\_hist',  
 'alarm\_img\_data',  
 'c3\_sms',  
 'filetaskdata',  
 'getfiletask',  
 'getfiletask\_queue',  
 'alarm\_updated\_cols',  
 'alarm\_hist\_inc',  
 'c3\_sms\_hist\_inc',  
 'stat\_alarm\_ex',  
 'stat\_sms\_ex',  
 'loco\_lrt',  
 'datacenterlog',  
 'event\_exec\_log',  
 'version\_hist',  
 'mis\_task',  
 'nos\_aa',  
 'nos\_ab',  
 'nos\_ac',  
 'nos\_ad',  
 'nos\_ae',  
 'nos\_af',  
 'nos\_ba',  
 'nos\_bb',  
 'nos\_bc',  
 'nos\_bd',  
 'nos\_be',  
 'nos\_bf',  
 'nos\_bg',  
 'nos\_bh'  
 ) ;

1. 执行上步脚本输出，以删除不用的表

### 执行数据库程序脚本

1. 数据库脚本



1. mysql命令登录到正确的数据库
2. 执行数据库语句

Source procs\_1125.sql