

# MySQL

MySQL

Oracle Windows

MySQL

3 mysql

MySQL

MySQL    /etc/my.cnf→/etc/mysql/my.cnf→/usr/local/mysql/etc → /.my.cnf  
          /etc/my.cnf    Windows                    .cnf            .ini

- `mysql utf8 utf8mb4`

# mysql utf8 utf8mb4

mysql utf8 utf8mb4

MySQL 5.5.3	utf8mb4	mb4	most bytes 4	unicode	utf8mb4	utf8
utf8 (Emoji	, Unicode	utf8mb4 ? ios android	mysql )	utf8	3 Unicode	4 U
UTF-8	31	UTF-8	21	17	Unicode	
utf8	Mysql	UTF-8	Unicode			
Mysql	utf8	UTF-8	Mysql	Unicode	Unicode	
Mysql	300	4	UTF-8			
Mysql	4	UTF-8	utf8mb4	5.5.3	(	select version();)
VARCHAR	CHAR					

## mysql utf8 utf8mb4

my5.5.3

```
select version();
```

MySQL 5.5.3	utf8mb4	mb4	most bytes 4	unicode	utf8mb4	utf8
--						
--1	alter table j1	default character set	utf8mb4;			
ALTER DATABASE test	CHARACTER SET =	utf8mb4;				
--2	alter table j1	modify name varchar(20)	character set utf8mb4	not null	default	
ALTER TABLE `test`	CHANGE COLUMN `name`	`name` varchar(12)	CHARACTER SET	utf8mb4;		
--		TEXT	LONGTEXT			
--						
alter table test	convert to character set	utf8mb4;				

```
--  
--      mysqldump      utf8mb4
```

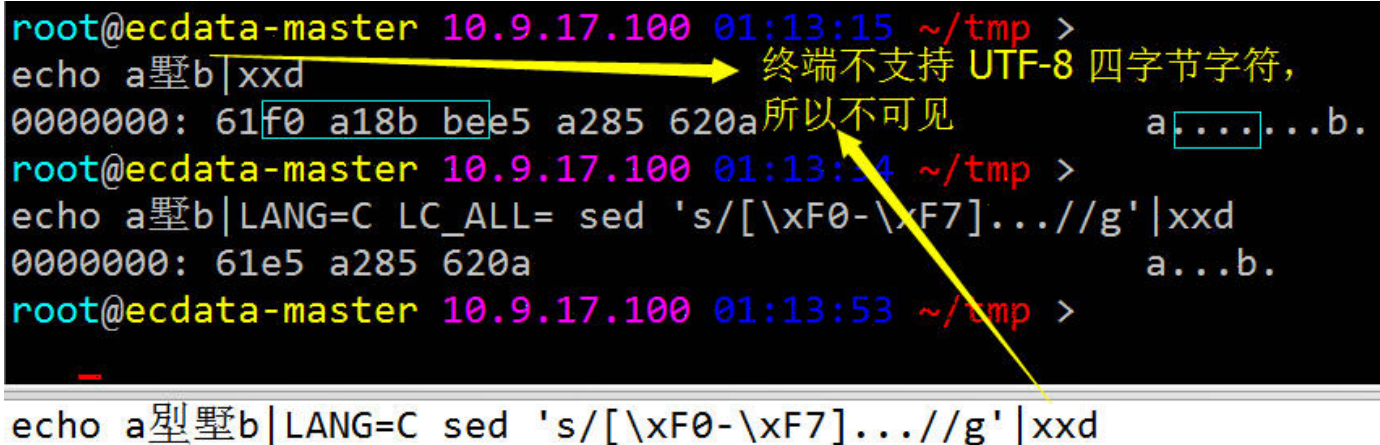
```
[client]  
default-character-set = utf8mb4  
[mysqld]  
character-set-server=utf8mb4  
collation-server=utf8mb4_unicode_ci  
[mysql]  
default-character-set = utf8mb4
```

java      jdbc      mysql-connector-java-5.1.14.jar

mysql      u

## shell

sed awk python perl      load



```
root@ecdata-master 10.9.17.100 01:13:15 ~/tmp >  
echo a壂b|xxd  
0000000: 61f0 a18b bee5 a285 620a  
root@ecdata-master 10.9.17.100 01:13:34 ~/tmp >  
echo a壂b|LANG=C LC_ALL= sed 's/[\xF0-\xF7]...//g'|xxd  
0000000: 61e5 a285 620a  
root@ecdata-master 10.9.17.100 01:13:53 ~/tmp >  
echo a壂壂b|LANG=C sed 's/[\xF0-\xF7]...//g'|xxd
```

## java

MySQL Unicode

```
for i=1->n  
int c=str.codePointAt(i);  
if (c<0x0000||c>0xffff) {  
    return false;  
}
```

web utf8

```
create table t1(name varchar(20) charset utf8mb4);
insert into t1 values(0xF0A09080);

set charset binary;
select * from t1;
```

## utf-8

4 utf8 :

- windows xp: xp 4 utf8 ,
- windows 7: 4 utf8
- mac os x: 4 utf8
- iPhone/iPad: 4 utf8

shell 4 utf8 , Navicat SecureCRT

**php** :

php utf8, mysql text character set utf8: 4 utf8

php utf8mb4, mysql text character set utf8: , 4 utf8 "?"

php utf8mb4, mysql text character set utf8mb4: 4 utf8

, winxp , 4 utf8 . utf8mb4 , utf8mb4 utf8 , .