

# MySQL教程-MySQL基本功能语句入门

## 数据库创建、删除与选择

### MySQL创建数据库

登录MySQL之后，用create命令创建一个数据库

```
CREATE DATABASE data_base_name;
```

使用mysqladmin创建数据库——对于root用户

```
mysqladmin -u root -p create data_base_name
```

### MySQL删除数据库

drop命令

```
drop database data_base_name;
```

mysqladmin在终端删除数据库

```
mysqladmin -u root -p drop data_base_name
```

```
mysql> drop database Gaodatabase_try
-> ;
Query OK, 0 rows affected (0.03 sec)

mysql> drop database Gao;
ERROR 1008 (HY000): Can't drop database 'gao'; database doesn't exist
```

```
C:\Users\Lenovo>mysqladmin -u root -p drop mydatabase
Enter password:
Dropping the database is potentially a very bad thing to do.
Any data stored in the database will be destroyed.

Do you really want to drop the 'mydatabase' database [y/N] y
Database "mydatabase" dropped

C:\Users\Lenovo>mysqladmin -u root -p drop mydat
Enter password:
Dropping the database is potentially a very bad thing to do.
Any data stored in the database will be destroyed.

Do you really want to drop the 'mydat' database [y/N] y
mysqladmin: DROP DATABASE mydat failed;
error: 'Can't drop database 'mydat'; database doesn't exist'
```

下一行指的是对于数据库不存在的情况会报错

# MySQL选择数据库

```
use data_base_name ;
```

## MySQL数据类型

请看这篇文章[MySQL数据类型](#)

## MySQL数据表创建、删除

### MySQL创建数据表

创建一个数据表，需要提供一下信息

- 表名
- 表字段名
- 定义每个表字段

### 语法

```
CREATE TABLE table_name (column_name column_type);
```

可以有多组column\_name和column\_type

命令实例

```
CREATE TABLE IF NOT EXISTS `runoob_tbl`(  
  `runoob_id` INT UNSIGNED AUTO_INCREMENT,  
  `runoob_title` VARCHAR(100) NOT NULL,  
  `runoob_author` VARCHAR(40) NOT NULL,  
  `submission_date` DATE,  
  PRIMARY KEY ( `runoob_id` )  
)ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

- 表项的字段不能为NULL，则设置NOT NULL属性
- AUTO\_INCREMENT用于主键，设置自增属性
- PRIMARY KEY定义主键是那一列
- ENGINE设置存储引擎，MySQL实际上只是一个接口，需要调用底层的存储引擎实现功能，CHARSET设置编码方式

```
mysql> CREATE DATABASE database3;  
ERROR 1049 (42000): Unknown database 'database3'  
mysql> CREATE TABLE test_table(  
  -> id INT UNSIGNED AUTO_INCREMENT  
  -> , NAME VARCHAR(100) NOT NULL,  
  -> PRIMARY KEY (id)  
  -> )ENGINE=InnoDB DEFAULT CHARSET=utf8 ;  
Query OK, 0 rows affected, 1 warning (0.05 sec)
```

## 创建表出现的常见错误

创建了一个不含任何列的表是不允许的

```
mysql> CREATE TABLE test;  
ERROR 4028 (HY000): A table must have at least one visible column.
```

必须指定表的主键，即使表只有一列

```
mysql> CREATE TABLE test( id INT UNSIGNED AUTO_INCREMENT)ENGINE=InnoDB DEFAULT CHARSET=utf8 ;  
ERROR 1075 (42000): Incorrect table definition; there can be only one auto column and it must be defined as a key  
mysql> CREATE TABLE test( id INT UNSIGNED AUTO_INCREMENT, PRIMARY KEY(id))ENGINE=InnoDB DEFAULT CHARSET=utf8 ;  
Query OK, 0 rows affected, 1 warning (0.05 sec)
```

## 删除数据表

### 语法

```
DROP TABLE table_name;
```