mysql> CREATE DATABASE test; //创建数据库

Query OK, 1 row affected (0.03 sec)

mysql> USE test; //切换数据库

Database changed

mysql> SELECT DATABASE(); //查看当前使用的数据库

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

| DATABASE() |

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

| test |

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

1 row in set (0.00 sec)

mysql> CREATE TABLE IF NOT EXISTS staff( //创建数据表

-> username VARCHAR(20),

-> age TINYINT UNSIGNED,

-> salary FLOAT(8,2) UNSIGNED

-> );

Query OK, 0 rows affected (0.13 sec)

mysql> SHOW TABLES; //陈列当前使用的数据库的所有表

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

| Tables\_in\_test |

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

| staff |

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

1 row in set (0.01 sec)

mysql> SHOW TABLES FROM mysql; //陈列mysql中所有数据库的所有数据表

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

| Tables\_in\_mysql |

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

| columns\_priv |

| component |

| db |

| default\_roles |

| engine\_cost |

| func |

| general\_log |

| global\_grants |

| gtid\_executed |

| help\_category |

| help\_keyword |

| help\_relation |

| help\_topic |

| innodb\_index\_stats |

| innodb\_table\_stats |

| password\_history |

| plugin |

| procs\_priv |

| proxies\_priv |

| role\_edges |

| server\_cost |

| servers |

| slave\_master\_info |

| slave\_relay\_log\_info |

| slave\_worker\_info |

| slow\_log |

| tables\_priv |

| time\_zone |

| time\_zone\_leap\_second |

| time\_zone\_name |

| time\_zone\_transition |

| time\_zone\_transition\_type |

| user |

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

33 rows in set (0.01 sec)

mysql> SHOW COLUMNS FROM staff; //查看数据表结构

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

| Field | Type | Null | Key | Default | Extra |

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

| username | varchar(20) | YES | | NULL | |

| age | tinyint(3) unsigned | YES | | NULL | |

| salary | float(8,2) unsigned | YES | | NULL | |

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

3 rows in set (0.01 sec)

mysql> INSERT staff VALUES('Tom',25,7863.25); //新增一条记录，不指定列，需指定所有列的值

Query OK, 1 row affected (0.11 sec)

mysql> INSERT staff (username,salary) VALUES('Jack',8000); //新增记录，仅指定若干列的值，不指定的列需允许为空

Query OK, 1 row affected (0.06 sec)

mysql> SELECT \* FROM staff; //陈列一张数据表的所有记录

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

| username | age | salary |

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

| Tom | 25 | 7863.25 |

| Jack | NULL | 8000.00 |

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

2 rows in set (0.00 sec)

mysql> CREATE TABLE student( //一张表仅允许一个主键，自增列必须为主键，自动不允许为空，保证记录的唯一性

-> id SMALLINT UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

-> username VARCHAR(20) NOT NULL

-> );

Query OK, 0 rows affected (0.03 sec)

主键约束

主键约束列，默认不能为NULL，不允许重复，保证记录唯一性，一般与自增AUTO\_INCREMENT一起使用，

每个数据表只允许有一个主键

唯一约束

唯一约束保证记录的唯一性，可以为NULL，每张数据表允许多个列是唯一约束

mysql> CREATE TABLE tab01(

-> id SMALLINT UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

-> username VARCHAR(20) NOT NULL UNIQUE KEY

-> );

Query OK, 0 rows affected (0.15 sec)

mysql> SHOW COLUMNS FROM tab01;

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

| Field | Type | Null | Key | Default | Extra |

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

| id | smallint(5) unsigned | NO | PRI | NULL | auto\_increment |

| username | varchar(20) | NO | UNI | NULL | |

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

2 rows in set (0.01 sec)

默认约束

提供默认值

当插入记录时，如果没有为字段赋值，会自动为该字段赋予默认值

mysql> CREATE TABLE tb02(

-> username VARCHAR(20) PRIMARY KEY,

-> sex ENUM('1','2','3') DEFAULT '2'

-> );

Query OK, 0 rows affected (0.12 sec)

mysql> SHOW COLUMNS FROM tb02;

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

| Field | Type | Null | Key | Default | Extra |

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

| username | varchar(20) | NO | PRI | NULL | |

| sex | enum('1','2','3') | YES | | 2 | |

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

2 rows in set (0.00 sec)