

# Mysql数据库操作

# mysql结构化查询语言



结构化查询语言sql包含四个部分:

- 1.DDL //数据定义语言,create,drop,alter
- 2.DML //数据操作语言,insert,update,delete
- 3.DQL //数据查询语言,select
- 4.DCL //数据控制语言,grant,commit,rollback

#### insert



insert into user(name) values("user4");

## update



- update user set name="user4" where id=4;
- update user set name='user5',age=20 where id=5;

#### delete



- delete from user where id>=3 and id<=5;</li>
- delete from user where id between 3 and 5;
- delete from user where id=3;
- delete from user where id in(1,3,5);



- 1.选择特定的字段
- select id, name from user;
- 2.给字段取别名-as
- select id, name from user;
- select id maoxian, name from user;
- select id as maoxian, name from user;
- 3.distinct关键字的使用
- select distinct age from user;



- 4.使用where条件进行查询
- select \* from user where id>=3 and id<=5;
- 5.查询空值null
- select \* from user where age is null;
- select \* from user where age is not null;
- 6.between and的使用方法
- select \* from user where id between 3 and 5;
- 7.in的使用方法
- select \* from user where id=1 or id=2 or id=10;
- select \* from user where id in(1,2,10); 建议使用这个



- 8.like的使用方法
- % 匹配所有
- 匹配一个字符
- select \* from user where name like "%mysql%"; //%在前, name这一列的索引会失效
- 9.使用order by对查询结果排序
- select \* from user order by id asc; //默认就是升序,数字从小到大
- select \* from user order by id desc; //默认就是升序,数字从大到小



10.使用limit限定输出个数(分页实现) select \* from user order by id limit 0,2; select \* from user order by id limit 5; //limit 0,5 前五个

## mysql常用函数-select



连接函数concat()
 select concat(id,age) from user;
 select concat("aaa","bbb","cccc");

- 随机数rand()
- select \* from user order by rand() limit 3;

# mysql常用函数-select



统计个数count()
 select count(id) from user;

统计表总行数select count(\*) from user;

# mysql常用函数-select



求和sum()
 select sum(age) from user;

平均值avg()
 select avg(age) from user;



最大值max()
 select max(age) from user;

- 最小值min()
- select min(age) from user;

## group by分组聚合的使用



```
统计每个班人数和总成绩
mysql> select clsnum,count(id),sum(id) from classtab
 group by clsnum;
+----+
| clsnum | count(id) | sum(id) |
+----+
3 rows in set (0.00 sec)
```

## group by分组聚合的使用



```
分组聚合加条件
mysql> select clsnum,count(id),sum(id) from classtab
 group by clsnum having sum(
id) > = 5;
+----+
| clsnum | count(id) | sum(id) |
+----+
   1 3 6
   3 | 2 | 11 |
 -----+
2 rows in set (0.00 sec)
```

## 多表查询



有一种下面三种方法都能实现, 优先选择普通多表查询

1.普通多表查询

mysql> select classtab.id,classtab.name,classtab.clsnum,score.num from classtab,

```
score where classtab.id=score.cid;
```

```
+---+----+----+
| id | name | clsnum | num |
+---+----+
| 1 | user1 | 1 | 70 |
| 3 | user3 | 1 | 59 |
| 5 | user5 | 3 | 80 |
+---+----+
```

3 rows in set (0.00 sec)

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# 嵌套查询|子查询-in



```
mysql> select name from classtab where id
  in(select cid from score);
+----+
 name
+----+
user1 |
user3
 user5 |
+----+
3 rows in set (0.03 sec)
```

# 左链接查询-left join on



```
mysql> select classtab.id,classtab.name,classtab.clsnum,score.num
  from classtab
left join score on classtab.id=score.cid;
+---+
| id | name | clsnum | num |
+---+
 1 | user1 | 1 | 70 |
 2 | user2 | 1 | NULL |
 3 | user3 | 1 | 59 |
 4 | user4 | 2 | NULL |
 5 | user5 | 3 | 80 |
 6 | user6 | 3 | NULL |
+---+
6 rows in set (0.00 sec)
```



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