

```

-- 创建普通索引
create index index_customers
on custs(cust_name(3) ASC);
-- 显示索引
show index in custs;

-- 创建组合索引
create index index_cust
on custs(cust_name,cust_id);

-- 边创建边设置索引
create table seller
(
    seller_id int not null auto_increment,
    seller_name char(50) not null,
    seller_address char(50) null,
    seller_contact char(50) null,
    product_type int null,
    sales int null,
    primary key (seller_id,product_type),
    index index_seller(sales)
);
-- 添加索引
alter table seller
add index index_seller_name(seller_name);

-- 删除索引
drop index index_seller_name on seller;

alter table seller
drop index index_seller;

-- 删除主键

-- 查询表中所有数据信息
select * from custs;

-- 插入一条数据
-- 没有列名
insert into custs
values('aa',0,default,default,'beijing');
-- 列举所有列名

```

```
insert into custs(cust_name,cust_id,cust_sex,cust_city,cust_address)
values('bb',0,1,default,'wuhan');
```

-- 没有自动增长列名

```
insert into custs
(cust_name,cust_sex,cust_city,cust_address)
values('cc',default,'haerbin','wuhan');
```

-- 部分列赋值

```
insert into custs
set cust_name='dd',cust_sex=default;
```

-- 插入多条语句

```
insert into custs
select '1',0,'1','1','1' union
select '1',0,'1','1','2';
```

-- 中文乱码

```
set character_set_results=gb2312;
```

-- 显示男女

```
select cust_name,
case
when cust_sex =1 then '男'
else '女'
end as 性别
from customers;
```

-- 编号加 100

```
select cust_id+100,cust_name from customers;
```

-- 聚合函数

```
select count(*) from customers;
select max(cust_id) from customers;
select min(cust_id) from customers;
select sum(cust_id) from customers;
select avg(cust_id) from customers;
```

-- 交叉连接

```
select * from tb1 cross join tb2;
```

--内连接

```
select * from stu_info
inner join stu_score
on stu_info.sno=stu_score.sno;
```

-- 左外连接

```
select stu_info.sno,stu_info.sname,stu_score.sscore  
from stu_info  
left join stu_score  
on stu_info.sno=stu_score.sno;
```

-- 右外连接

```
select stu_info.sno,stu_info.sname,stu_score.sscore  
from stu_score  
right join stu_info  
on stu_score.sno=stu_info.sno;
```

-- 比较运算符

```
select * from customers where cust_id!=2;  
select * from customers where cust_id<>2;
```

-- 逻辑运算符

and 与

```
select * from customers where cust_id>2 and cust_sex=1;
```

or 或

```
select * from customers where cust_id>2 or cust_sex=1;
```

-- 两者之间 范围

```
select * from customers where cust_id between 2 and 4;  
select * from customers where cust_id>=2 and cust_id<=4;
```

-- in

```
select * from customers where cust_id in(2,4);  
select * from customers where cust_id=2 or cust_id=4;
```

-- 子查询

```
select * from stu_info where sno in(  
select sno from stu_score);
```

-- exists

-- 分组查询

```
select ssex,count(*)
```

```
from stu_info
group by ssex;
```

```
select saddress,ssex,count(*)
from stu_info
group by saddress,ssex;
```

```
select saddress,ssex,count(*)
from stu_info
group by saddress,ssex
with rollup;
```

```
-- having 筛选
select saddress,ssex ,count(*)
from stu_info
group by saddress,ssex
having count(*)>1;
```

```
-- order by
select * from stu_info
order by sname desc;
```

```
-- limit
select * from stu_info
order by sname desc
limit 3;
```

```
select * from stu_info
order by sname desc
limit 4,3;
```

```
-- 创建视图
create or replace view customers_view
as
select * from customers where cust_sex=1
with check option;
```

```
create or replace view stu_view
as
select stu_info.sno,stu_score.score
from stu_info
inner join stu_score
on stu_info.sno=stu_score.sno
```

```

with check option;

-- 查询视图
select * from customers_view;

-- 删除视图
drop view stu_view;

-- 显示视图结构
show create view customers_view;

-- 添加
insert into customers_view
values(0,'ww',1,'ww','ww');
-- 更新
update customers_view
set cust_name='qq'
where cust_id=5;
-- 删除
delete from customers_view where cust_id=5;
-- 存储函数
delimiter $$
create function fn_search(cid int)
returns char(50)
deterministic
begin
declare sex char(2);
select cust_sex into sex from customers where cust_id=cid;
if sex is null then
    return (select 'no');
else    if sex=0 then
    return (select 'gril');
    else return (select 'boy');
    end if;
end if;
end $$
-- 调用
select fn_search(1);

-- 删除
drop function if exists fn_search;

-- 创建时设置外键
create table orders

```

```
(
order_id int not null auto_increment,
order_product char(50) not null,
order_product_type char(50) not null,
cust_id int not null,
order_date datetime not null,
order_price double not null,
order_amount int not null,
primary key(order_id),
foreign key(cust_id)
references customers(cust_id)
on delete restrict
on update restrict
);
```

```
create table orders
(
order_id int not null auto_increment,
order_product char(50) not null,
order_product_type char(50) not null,
cust_id int not null,
order_date datetime not null,
order_price double not null,
order_amount int not null,
primary key(order_id)
);
```

```
alter table orders add foreign key
orders_fk(cust_id) references customers(cust_id);
```

```
-- 检查约束
create table team
(
teamno int not null,
division set('north','south','east','west')
);
```

```
-- 查看 mysql 数据库的使用者账号
select user from mysql.user;
-- 密码加密
select password(456);
```

```
+-----+
| password(456)                               |
+-----+
| *531E182E2F72080AB0740FE2F2D689DBE0146E04 |
+-----+
```

-- 创建用户

```
create user 'zhangsan'@'localhost' identified by '123',
'lisi'@'localhost' identified by password '*531E182E2F72080AB0740FE2F2D68
9DBE0146E04';
```

-- 测试以张三用户登录

```
C:\Users\Administrator>mysql -u zhangsan -p
Enter password: ***
```

-- 删除用户账号

```
drop user lisi@localhost;
```

-- 重命名

```
rename user 'zhangsan'@'localhost' to 'wangwu'@'localhost';
```

-- 修改密码

```
set password for 'wangwu'@'localhost'
='*6B4F89A54E2D27ECD7E8DA05B4AB8FD9D1D8B119';
```

-- 设置权限

```
grant select
on test1.customers
to 'wangwu'@'localhost';
-- 创建两个用户
grant select,update
on test1.customers
to 'liming'@'localhost' identified by '123',
'huang'@'localhost' identified by '789';
```

--执行所有数据库操作的权限

```
grant all
on test1.*
to 'wangwu'@'localhost';
```

-- 添加用户的权限

```
grant create user
on *.*;
```

to 'wangwu'@'localhost';

-- 权限转移

grant select,update

on test1.customers

to 'zhou'@'localhost' identified by '123'

with grant option;

-- 权限撤回

revoke select

on test1.customers

from 'zhou'@'localhost';

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