

## User's function

### Sign in

```
--input username
--input password

select user_id from account
  where username = 'input_username'
  and password = 'input_password';

--login use email
select user_id from account
  where email = 'input_email'
  and password = 'input_password';
```

### Sign up

```
--auto generate auto_user_id;
--input information;

--examine the same username
select username from account
  where username = 'input_username';

--if username is unique, then create a new account.
insert into customers
values ('auto_user_id',
      'input_first_name',
      'input_middle_name',
      'input_last_name',
      'phone_number'
      );
```

### Edit information

```
update table customers
set first_name = 'input_first_name',
  middle_name = 'input_middle_name',
  last_name = 'input_last_name',
  phone_number = 'input_phone_number',
  date_of_birth = 'input_date_of_birth'
where user_id = 'the current userid';
```

### Set address

```
--auto generate auto_address_id;

insert into address
values( 'auto_address_id',
       'address_line_1',
       'address_line_2',
       'city',
       'zipcode',
       'state',
       'current_user_id');
```

### Delete address

```
delete from address
where address_id = 'target_address_id';
```

### Set payment method

```
--auto generate auto_payment_id;

insert into paymentmethod
values( 'method_id',
       'holdername',
       'card_number',
       'expiration_date',
       'svc',
       'user_id');
```

### Delete payment method

```
delete from paymentmethod
where method_id = 'target_method_id';
```

### Check order

```
select * from order
where user_id = 'the current userid';
```

#### Add to cart

```
insert into cartdetail
values ('the current userid',
       'target productid',
       'product_number');

update cart
set shipping_price = 5,
    price = shipping_price + (select sum(product_price * product_number)
                             from product natural join cartdetail
                             where user_id = 'current_user_id'),
    tax = 0.05*(select sum(product_price * product_number)
                from product natural join cartdetail
                where user_id = 'current_userid')
where user_id = 'current_user_id';
```

#### Add one in cart

```
update cartdetail
set product_number = product_number + 1
where user_id = 'current_user_id'
and product_id = 'current_product_id';

update cart
set shipping_price = 5,
    price = shipping_price + (select sum(product_price * product_number)
                             from product natural join cartdetail
                             where user_id = 'current_user_id'),
    tax = 0.05*(select sum(product_price * product_number)
                from product natural join cartdetail
                where user_id = 'current_userid')
where user_id = 'current_user_id';
```

#### Minus one in cart

```
update cartdetail
set product_number = product_number - 1
where user_id = 'current_user_id'
and product_id = 'current_product_id';

update cart
set shipping_price = 5,
    price = shipping_price + (select sum(product_price * product_number)
```

```

        from product natural join cartdetail
        where user_id = 'current_user_id'),
    tax = 0.05*(select sum(product_price * product_number)
        from product natural join cartdetail
        where user_id = 'current_userid')
where user_id = 'current_user_id';

```

#### Delete from cart

```

delete from cartdetail
where user_id = 'current_user_id'
and product_id = 'product_id';

update cart
set shipping_price = 5,
    price = shipping_price + (select sum(product_price * product_number)
        from product natural join cartdetail
        where user_id = 'current_user_id'),
    tax = 0.05*(select sum(product_price * product_number)
        from product natural join cartdetail
        where user_id = 'current_userid')
where user_id = 'current_user_id';

```

#### Check cart

```

--get current cartid
select user_id from cart
where user_id = 'current_userid';

--get cart information
select tax from cart
where user_id = 'current_userid';

select price from cart
where user_id = 'current_userid';

select shipping_price from cart
where user_id = 'current_userid';

--get product information
select * from product natural join
    (select product_id from cartdetail
    where user_id = 'current_userid');

```

### Place order (checkout cart)

```
--auto generate auto_order_id;
insert into orders
values ('auto_order_id',
       current_date,
       (select price from cart
        where user_id = 'current userid'),
       'current userid',
       0);

insert into orderdetail (order_id, product_id, product_number
select 'auto_order_id', product_id, product_number
from cartdetail
where user_id = 'current_user_id';

delete from cartdetail
where user_id = 'current userid';

update cart
set shipping_price = 5,
    price = shipping_price + (select sum(product_price * product_number)
                             from product natural join cartdetail
                             where user_id = 'current userid'),
    tax = 0.05*(select sum(product_price * product_number)
                from product natural join cartdetail
                where user_id = 'current userid')
where user_id = 'current userid';
```

### Make payment order

```
update orders
set payment_status=1
where order_id = 'current orderid';
```

### Cancel order

```
delete from orderdetail
where order_id = 'target_order_id';

delete from orders
where order_id = 'target_order_id';
```

### Search product

```
select * from product
where product_name like '%key word%';
```

### Employee's function

#### Check product

```
select * from product;
```

#### Add product

```
insert into product
values ('productid',
       'product_name',
       'product_price',
       'expiration_date',
       'upc_code');

--set product store
insert into inventory
values ('store_id',
       'product_id',
       'number of product in this store');

--set product type
insert into productbelongto
values ('product_id',
       'category_name');

--set product brand
insert into brandbelongto
values ('product_id',
       'brand_name');
```

#### Delete product

```
delete from product
where product_id = 'productid';
```

#### Check size from warehouse

```
select product_name, product_number
from inventory natural join product
where store_id = 'target_store_id';
```

#### Check store

```
select * from store;
```

#### Add store

```
--auto generate auto_store_id;
insert into store
values ('auto_store_id',
       'store_name',
       'store_address',
       'phone_number',
       'open_time',
       'close_time',
       'description');

--set vendors
insert into vendors
values ('store_id',
       'vendor_name');
```

#### Delete store

```
delete from store
where store_id = 'target_store_id';
```

#### Add product type

```
insert into product_type
values ('category_name',
       'description');
```

#### Delete product type

```
delete from product_type
where category_name = 'target_product_type';
```

### Add brand

```
insert into brand
values ('brand_name',
       'brand_descroption',
       'brand_company');
```

### Delete product brand

```
delete from brand
where brand_name = 'target_brand_name';
```

### Delete vendors

```
delete from vendors
where vendor_name = 'target_vendor_name';
```