User's funciton

Sign in

```sql
--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

```sql
--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

```sql
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';
```

Add address

```sql
--auto generate auto_address_id;

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

Update address

```sql
update address
set address_line_1 = 'address_line_1',
    address_line_2 = 'address_line_2',
    city = 'city',
    zipcode = 'zipcode',
    state = 'state'
where address_id = 'current_address_id';
```

Delete address

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

Set payment method

```sql
--auto generate auto_payment_id;

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

Delete payment method

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

Check order

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

Check order detail

```sql
select * form orderdetail
where order_id = 'this order id';
```

Add to cart

```sql
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

```sql
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

```sql
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

```sql
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

```sql
--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
```

```sql
    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)

```sql
    --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

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

Cancel order

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

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

Search product

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

Employee's function

Check product

```sql
select * from product;
```

Add product

```sql
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 description
insert into product_description
values ('product_id',
    'description')

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

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

Update product

```
update product
set product_name = 'product name',
    product_price = 'product price',
    expiration_date = 'expiration date',
    UPC_code = 'upc code'
where product_id = 'target_product_id';

update prodcut_description
set description = 'product description'
where product_id = 'target_product_id';
```

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',
```

```sql
        'open_time',
        'close_time',
        'description');

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

Update store information

```sql
    update store
    set store_name = 'store name',
        store_address = 'address',
        phone_number = 'phone number',
        open_time = 'open time',
        close_time = 'close time',
        description = 'store description'
    where store_id = 'current_storeid'
```

Delete store

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

Add product type

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

Delete product type

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

Add brand

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

Delete product brand

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

Delete vendors

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