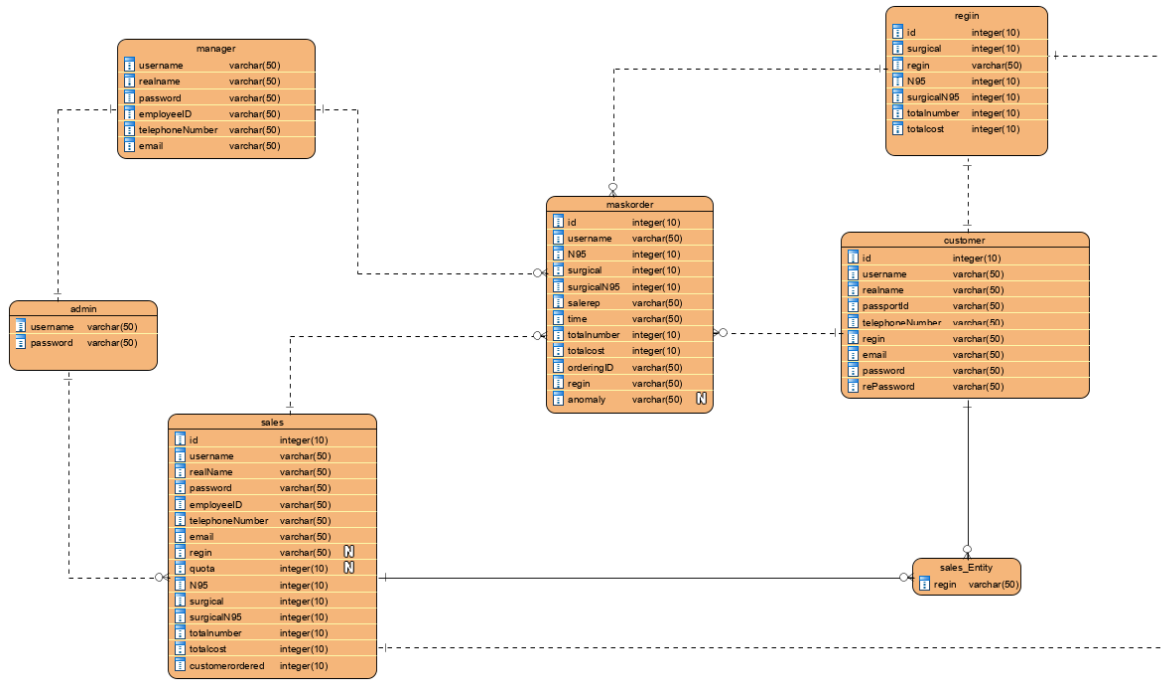


Reference

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Entity-Relationship Diagram



SQL “create table” statements

```
DROP TABLE IF EXISTS `admin`;
CREATE TABLE IF NOT EXISTS `admin` (
  `username` text NOT NULL,
  `password` text NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
INSERT INTO `admin` (`username`, `password`) VALUES
('administrator', 'administrator');
```

```
DROP TABLE IF EXISTS `manager`;
CREATE TABLE IF NOT EXISTS `manager` (
  `username` text NOT NULL,
  `realName` text NOT NULL,
  `password` text NOT NULL,
  `employeeID` text NOT NULL,
  `telephoneNumber` text NOT NULL,
  `email` text NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
DROP TABLE IF EXISTS `sales`;
CREATE TABLE IF NOT EXISTS `sales` (
  `id` int NOT NULL AUTO_INCREMENT,
  `username` text NOT NULL,
  `realName` text NOT NULL,
  `password` text NOT NULL,
  `employeeID` text NOT NULL,
  `telephoneNumber` text NOT NULL,
  `email` text NOT NULL,
  `regin` text,
  `quota` int NOT NULL DEFAULT '0',
  `N95` int NOT NULL DEFAULT '0',
  `surgical` int NOT NULL DEFAULT '0',
  `surgicalN95` int NOT NULL DEFAULT '0',
  `totalnumber` int NOT NULL DEFAULT '0',
  `totalcost` int NOT NULL DEFAULT '0',
  `customerordered` int NOT NULL DEFAULT '0',
  CONSTRAINT salesid PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
DROP TABLE IF EXISTS `regin`;
```

```
CREATE TABLE IF NOT EXISTS `regin` (
  `id` int NOT NULL AUTO_INCREMENT,
  `regin` text NOT NULL,
  `N95` int NOT NULL DEFAULT '0',
  `surgical` int NOT NULL DEFAULT '0',
  `surgicalN95` int NOT NULL DEFAULT '0',
  `totalnumber` int NOT NULL DEFAULT '0',
  `totalcost` int NOT NULL DEFAULT '0',
  CONSTRAINT reginid PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
INSERT INTO `regin` (`regin`) VALUES ('China'),
('America'),('UK'),('Japan'),('Korea'),('Italy'),('Canada');
```

```
DROP TABLE IF EXISTS `customer`;
CREATE TABLE IF NOT EXISTS `customer` (
  `id` int NOT NULL AUTO_INCREMENT,
  `username` text NOT NULL,
  `realname` text NOT NULL,
  `passportId` text NOT NULL,
  `telephoneNumber` text NOT NULL,
  `regin` text NOT NULL,
  `email` text NOT NULL,
  `password` text NOT NULL,
  `rePassword` text NOT NULL,
  `totalnumber` int NOT NULL DEFAULT '0',
  `totalcost` int NOT NULL DEFAULT '0',
  CONSTRAINT customerid PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
DROP TABLE IF EXISTS `onlinecustomer`;
CREATE TABLE IF NOT EXISTS `onlinecustomer` (
  `username` text NOT NULL,
  `regin` text NOT NULL,
  `ip` text NOT NULL,
  `date` text NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
DROP TABLE IF EXISTS `maskorder`;
CREATE TABLE IF NOT EXISTS `maskorder` (
  `id` int NOT NULL AUTO_INCREMENT,
  `username` text NOT NULL,
  `N95` int NOT NULL DEFAULT '0',
  `surgical` int NOT NULL DEFAULT '0',
  `surgicalN95` int NOT NULL DEFAULT '0',
  `salerep` text NOT NULL,
```

```
`time` text NOT NULL,  
`totalnumber` int NOT NULL DEFAULT '0',  
`totalcost` int NOT NULL DEFAULT '0',  
`orderingID` text NOT NULL,  
`regin` text NOT NULL,  
`anomaly` text,  
CONSTRAINT maskorderid PRIMARY KEY (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

brief discussion on how the design will work

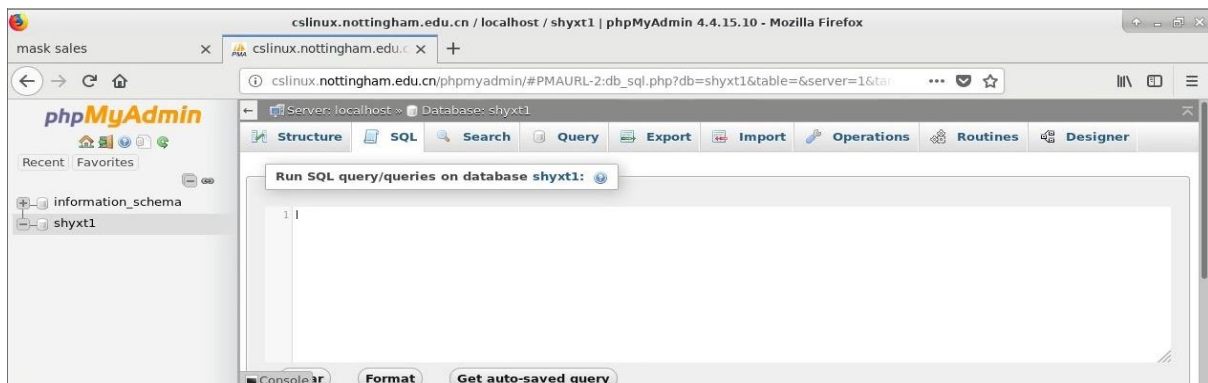
1. Before all start, log in with administrator account to create/initialize manager and sale reps accounts.
2. Manager can assign a sales rep to one region and give sale reps' quotas.

Moreover, manager can also know the total number of masks sold (w/ or w/o anomalies), total revenues, masks sold by a specific sales rep, masks sold in a region, masks under ordering, masks sold in the past weeks, statistics (such as sum, average, count) of a customer by clicking different buttons at the top.

3. Sale reps can view all his/her orders, but is not allowed to modify the ordering record of a customer unless the ordering amount exceeds his or her quota.
4. Customer can register their own accounts and log in with that. In the mask selling page, they can make orders. In the order page, they can view all his/her own orders and can delete the orders under 24h.

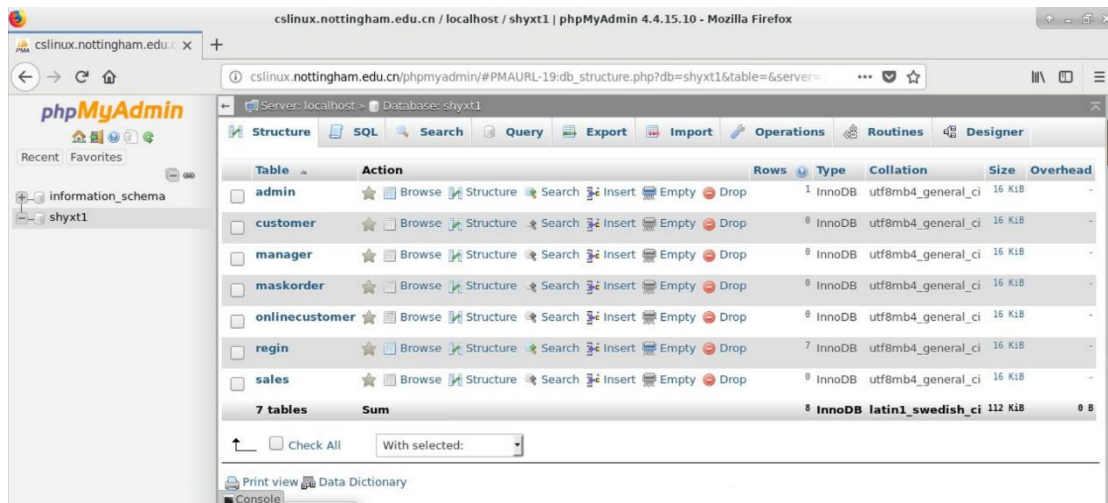
brief explanation

1. Open web “cslinux.nottingham.edu.cn/phpmyadmin/”
Username: shyxt1
Password: tangxinran
2. Go to **shyxt1** database, and choose **SQL**



Paste the whole SQL “create table” statements in this part, which can be found in folder src -> sql ->table.txt **or** folder src -> sql ->table.sql

3. After run the code, you will see this:



4. Open web “cslinux.nottingham.edu.cn/~shyxt1/src/log_in_page.php”
5. Log in with the administrator account
Username: administrator
Password: administrator

6. In administrator page, you can create/initialize one manager account and multiple sale rep accounts

Create one manager account:

only the last version of manager information will be accepted

Username	Real Name	Password	employee ID	Telephone Number	email address
manager	Mary Green	*****	1214534546	1395647830	mary@163.com

[sign out](#)

[here](#) to create sales account too!

username	realName	employeeID	telephoneNumber	email
----------	----------	------------	-----------------	-------

After created, you can view the current information of created manager at the lower left table

only the last version of manager information will be accepted

Username	Real Name	Password	employee ID	Telephone Number	email address
manager	Mary Green		1214534546	1395647830	mary@163.com

[sign out](#)

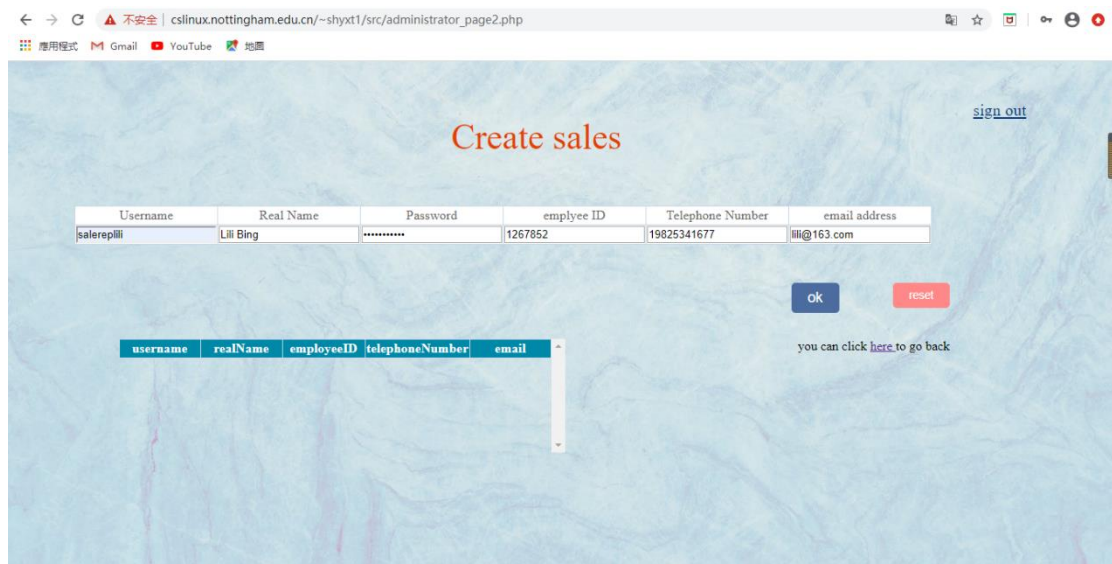
[here](#) to create sales account too!

username	realName	employeeID	telephoneNumber	email
----------	----------	------------	-----------------	-------

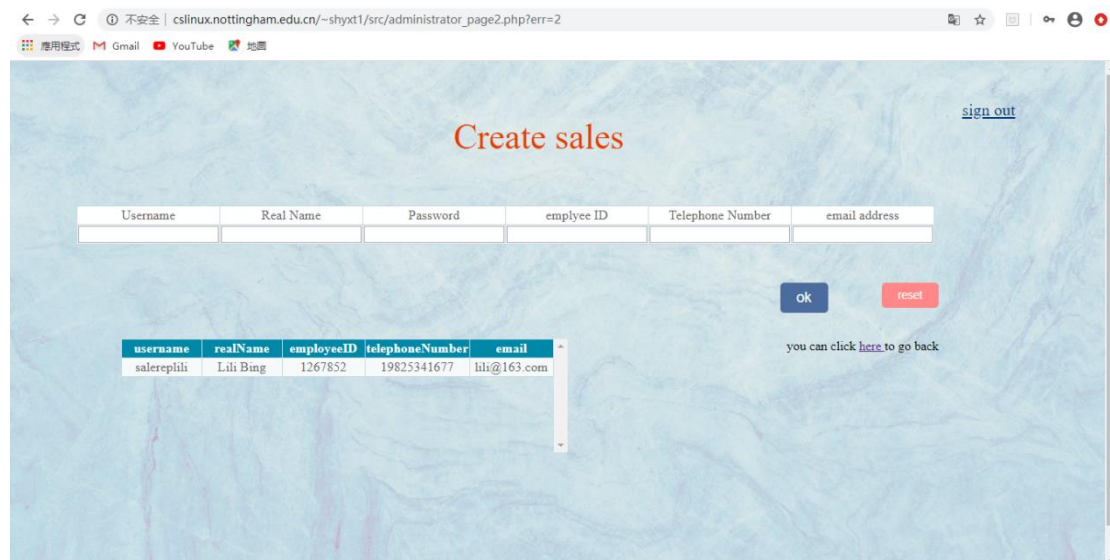
p.s. if you create again, the previous one will be replaced

Click [here](#) link to create sale reps accounts

Create multiple sale rep accounts:

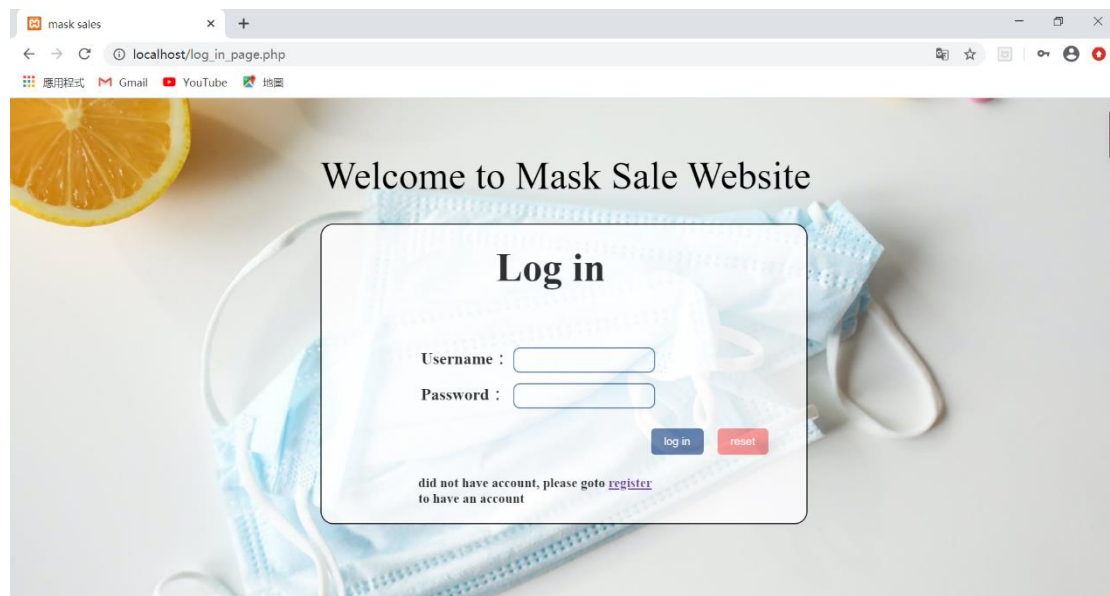


After created, you can also view the current information of created sale reps at the lower left table

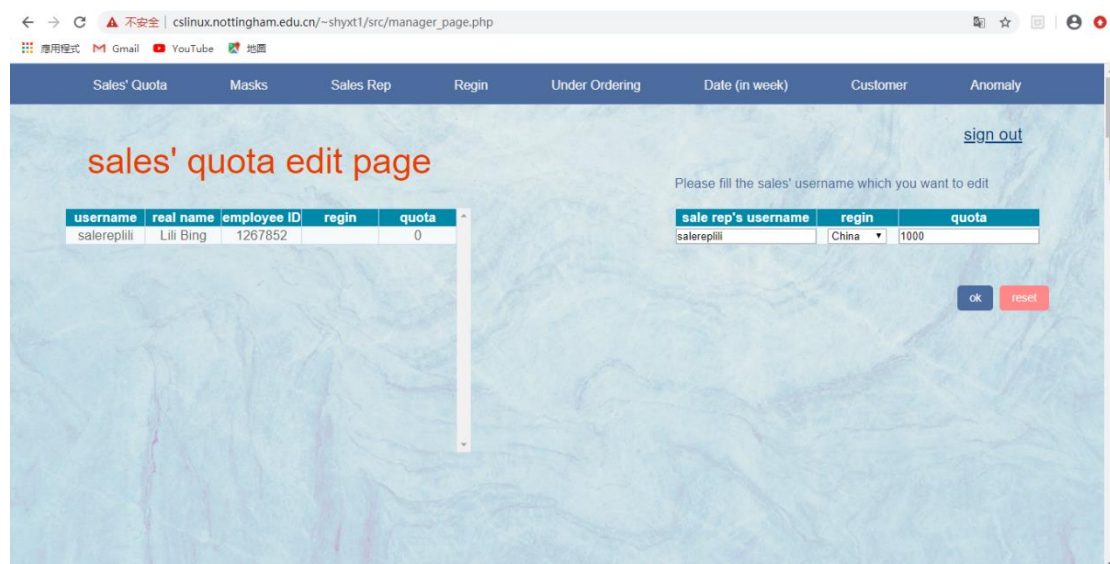


Once finished, click [sign out](#) to go back to log in page.

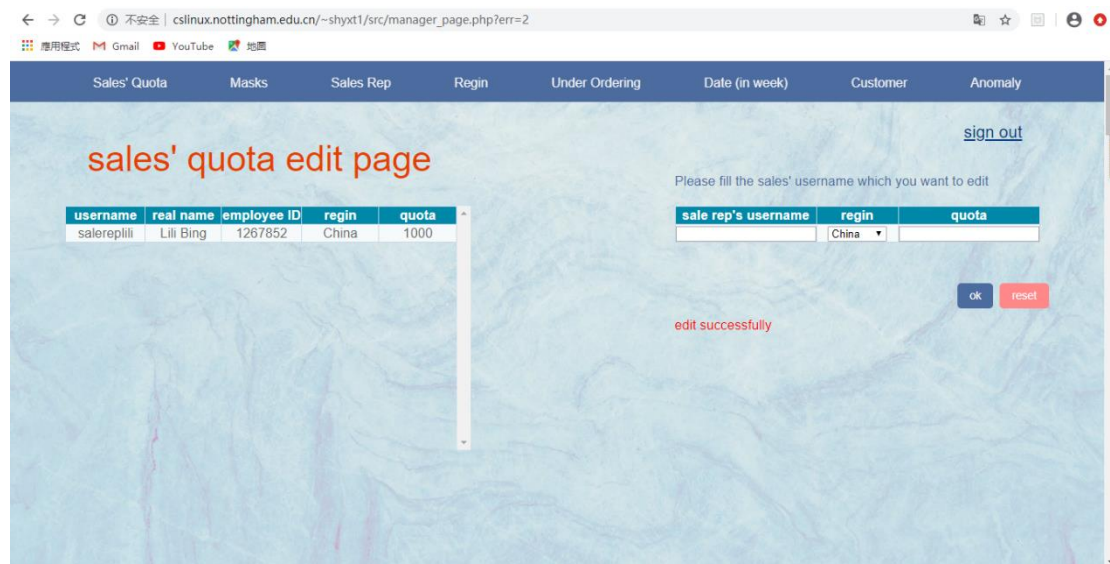
7. Log in with created manager account
 Username: manager
 Password: manager



8. In manager page, you can assign a sales rep to one region and give sale reps' quotas



Then information will be updated at left side



9. Register as a customer (to get an account)

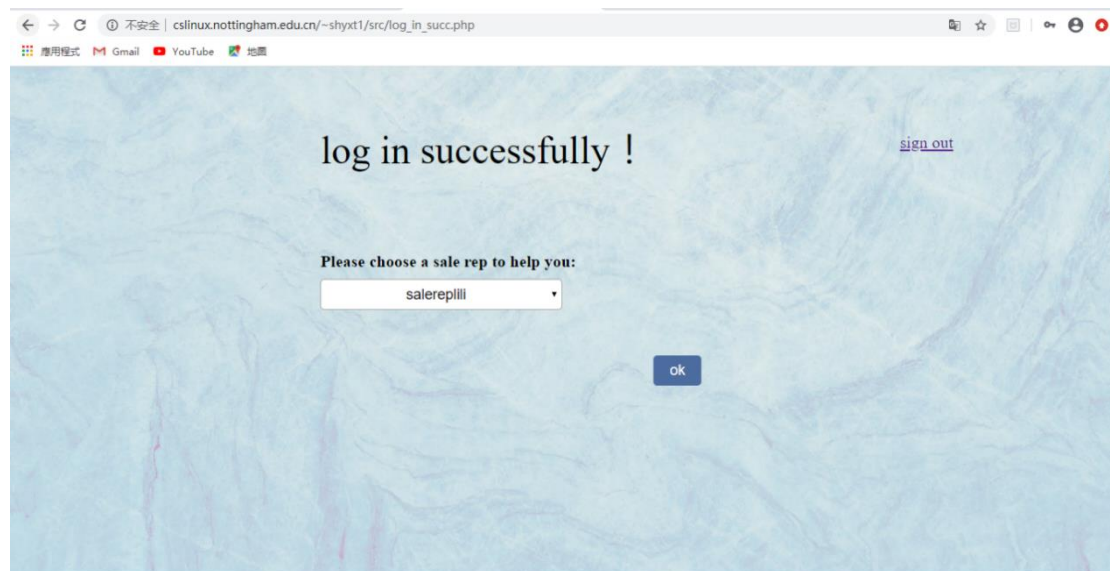
After clicked **register** button, click [log in](#) to log in.

10. Log in with Customer account

Username: Tomy003

Password: Tomy003

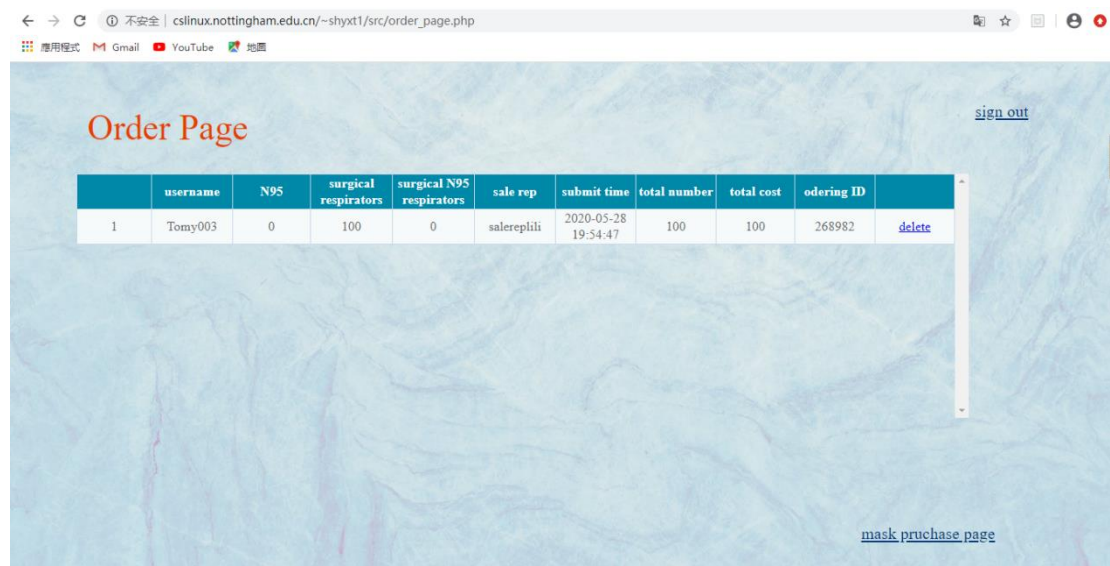
11. Select one sale rep in same region



12. Make orders



13. Submit the order



Only the orders under 24h can be deleted

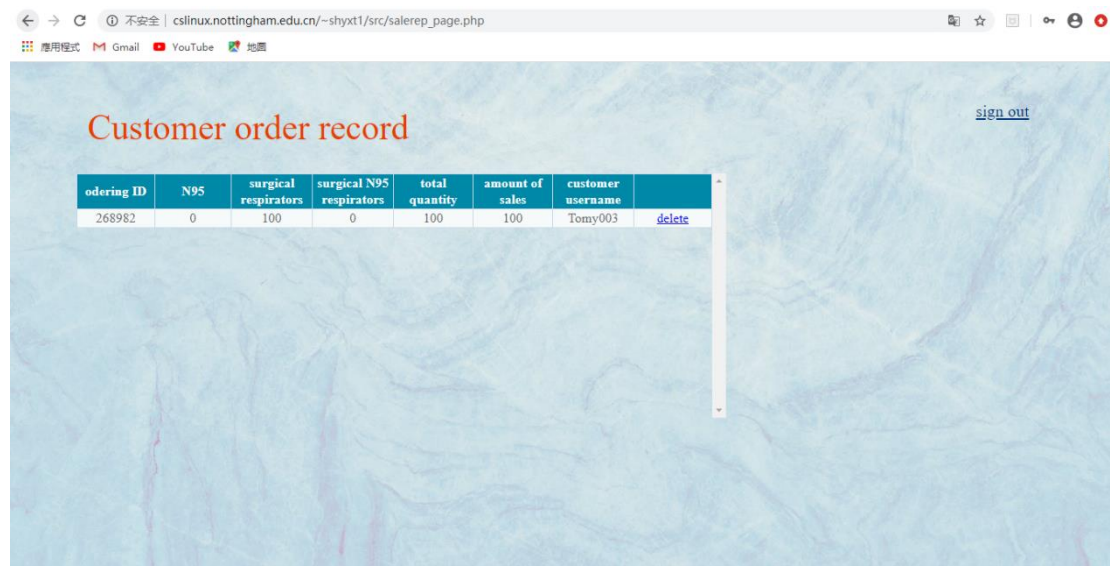
You can click [mask purchase page](#) to make more orders or click [sign out](#) to go back to log in page

14. Log in with sale rep account

Username: salereplili

Password: salereplili

15. You can view the orders made by customers



Sale rep is not allowed to modify the ordering record of a customer unless the ordering amount exceeds his or her quota under 24h

if 24 hours has elapsed since the initialization of a customer's ordering and this ordering violates the quota, the sales rep cannot delete it and the ordering is considered as completed and sold which is an anomaly order.

You can click [sign out](#) to go back to log in page

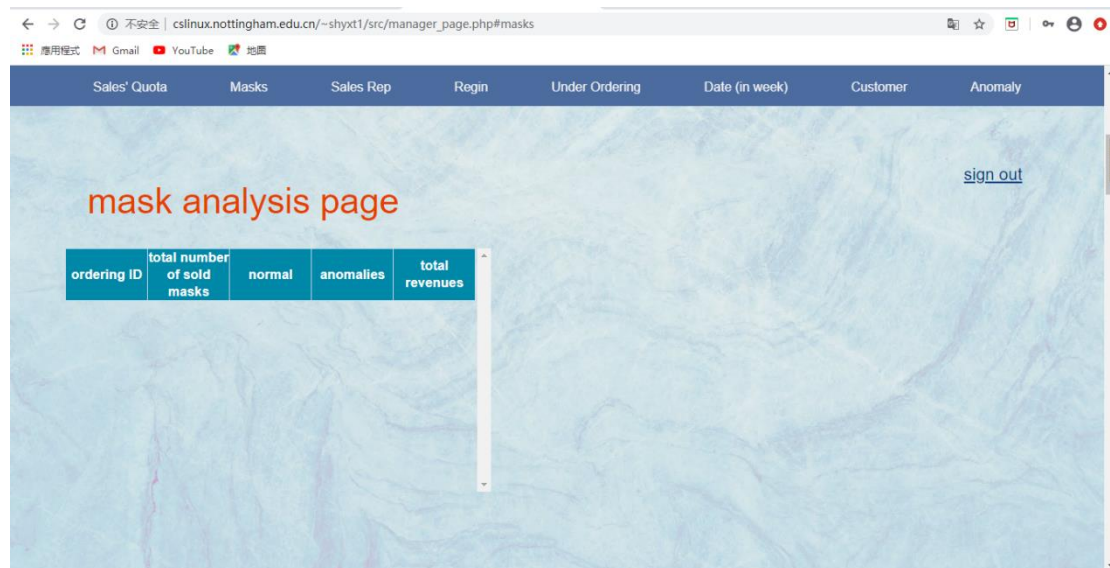
16. Log in with manager account again

Username: manager

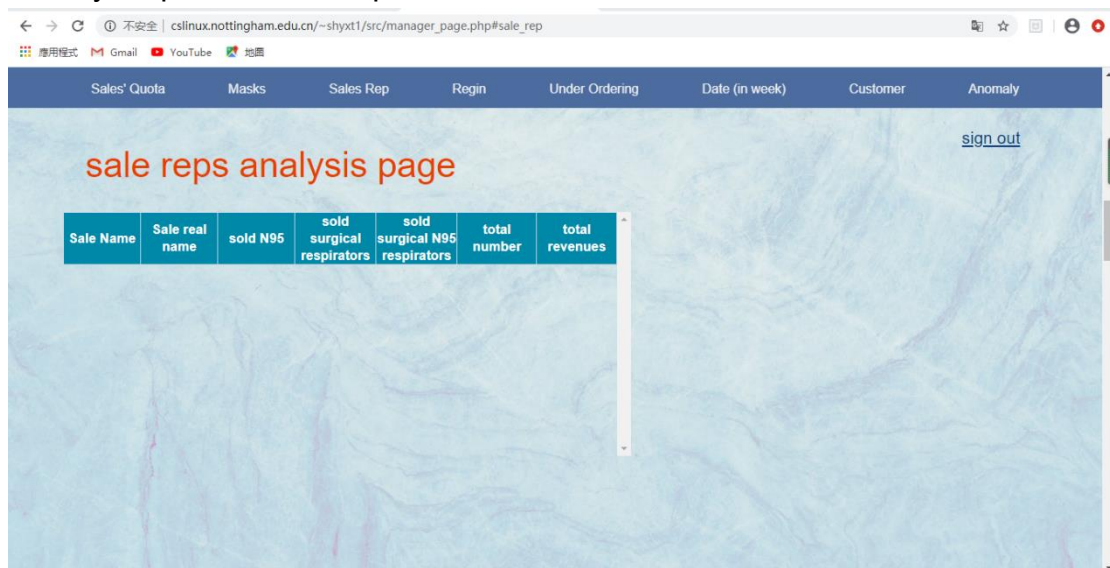
Password: manager

You can view different part by click the top navigation bar

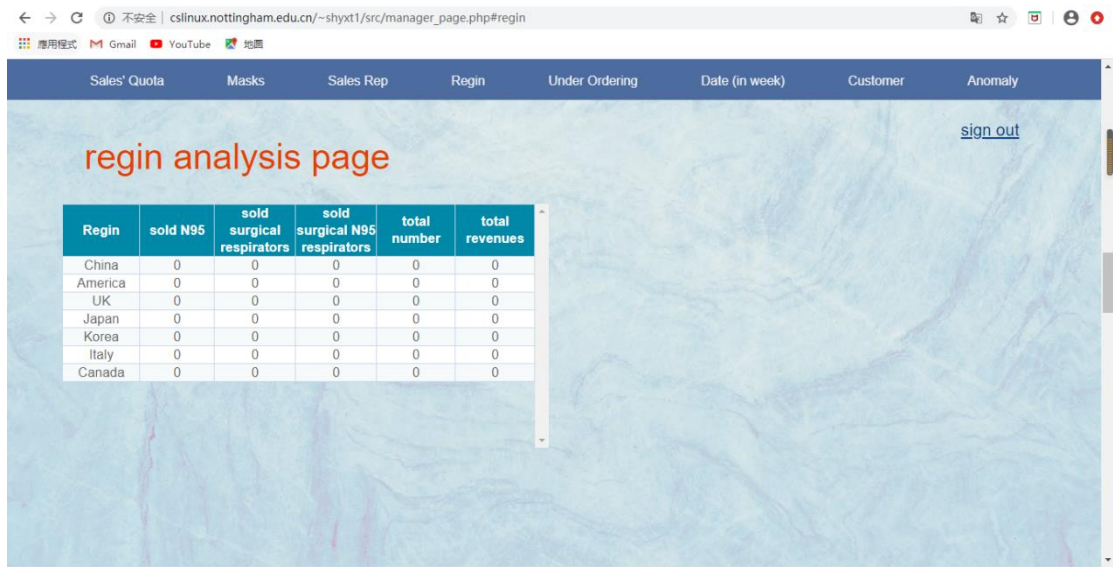
- If click the Masks, it can jump to mask analysis page which shows total number of masks sold (w/ or w/o anomalies), total revenues



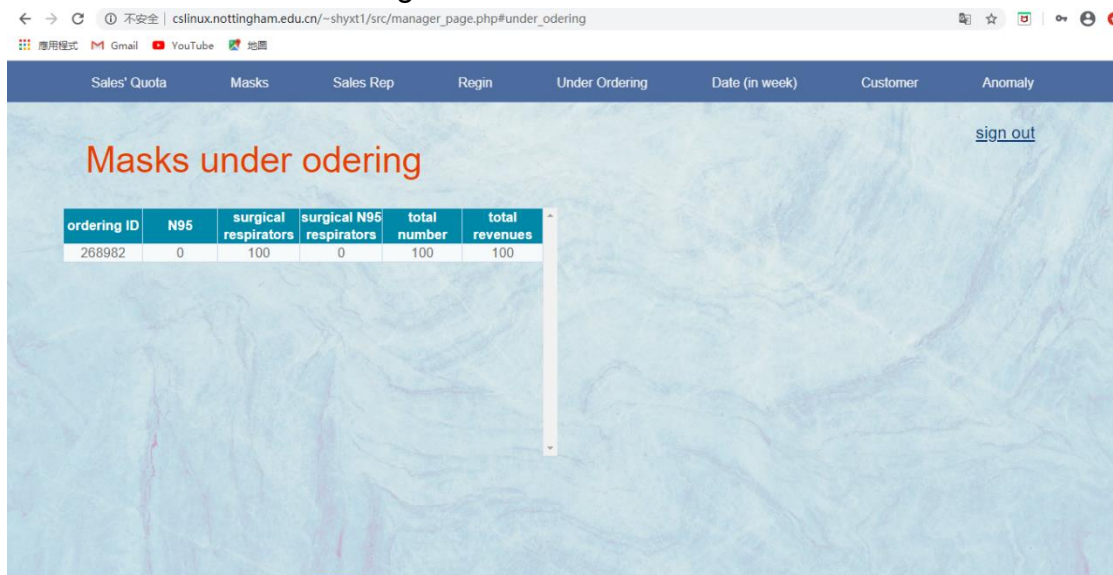
- If click the Sale Rep, it can jump to sale rep analysis page which shows masks sold by a specific sales rep



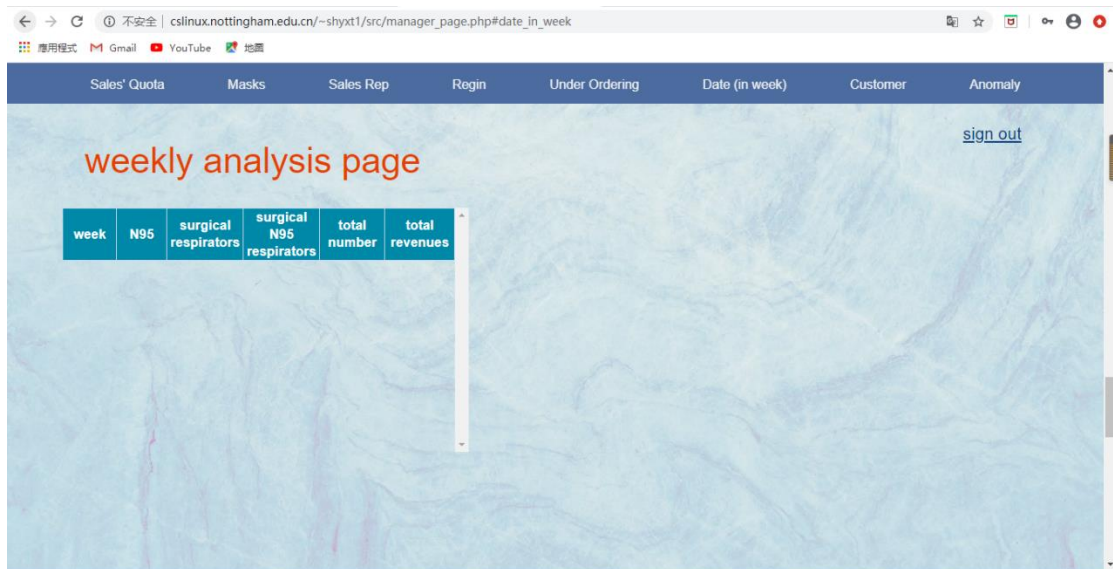
- If click the Regin, it can jump to regin analysis page which shows masks sold in a region



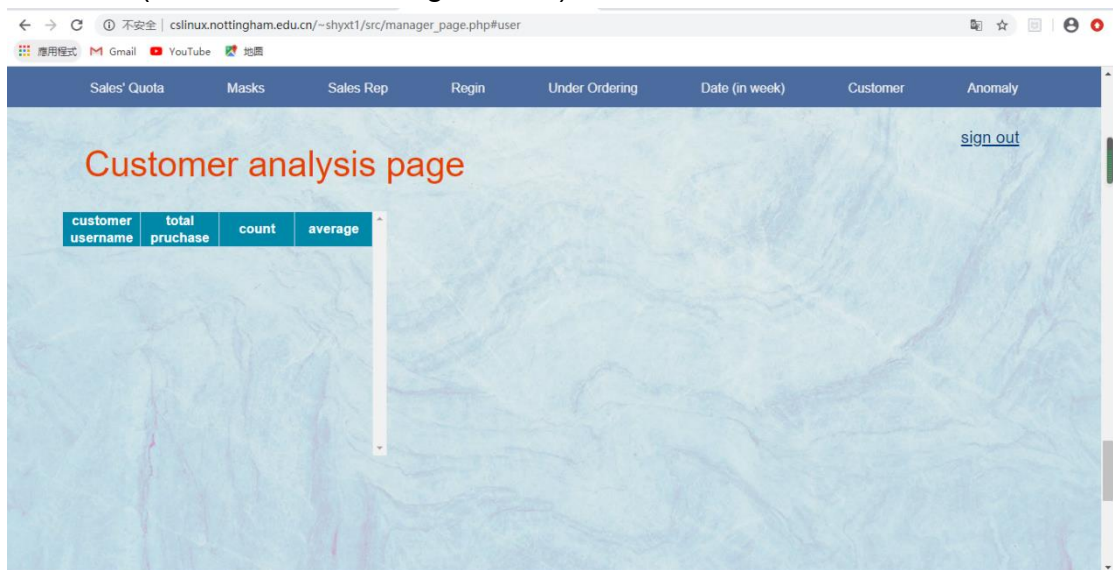
- If click the Under Ordering, it can jump to Mask under ordering page which shows masks under ordering



- If click the Date (in week), it can jump to Weekly analysis page which shows masks sold in the past weeks



- If click the Customer, it can jump to Customer analysis page which shows statistics (such as sum, average, count) of a customer



- If click the Anomaly, it can jump to anomaly orders which shows if there exists anomaly orders

← → ↻ ① 不安全 | cslinux.nottingham.edu.cn/~shyxt1/src/manager_page.php#anomaly

应用程序 Gmail YouTube 地图

Sales' Quota Masks Sales Rep Regin Under Ordering Date (in week) Customer Anomaly

anomaly orders

odering ID	N95	surgical respirators	surgical N95 respirators	total quantity	amount of sales	customer username
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external libraries

```
<script src="https://cdn.bootcdn.net/ajax/libs/smooth-scroll/16.1.0/smooth-scroll.min.js"></script>
```