

1. Install mysql database

```
CREATE DATABASE store;
```

```
USE store;
```

```
CREATE TABLE people(  
    pid INT PRIMARY KEY,  
    name VARCHAR(50),  
    username VARCHAR(30),  
    password VARCHAR(30),  
    role VARCHAR(15)
```

```
);
```

```
CREATE TABLE category(  
    cid INT PRIMARY KEY,  
    name VARCHAR(50)
```

```
);
```

```
CREATE TABLE store(  
    sid INT PRIMARY KEY,  
    name VARCHAR(50),  
    location VARCHAR(200),  
    open_hour int,  
    close_hour int
```

```
);
```

```
CREATE TABLE manager(  
    pid INT PRIMARY KEY,  
    sid INT,  
    FOREIGN KEY (pid) REFERENCES people(pid),  
    FOREIGN KEY (sid) REFERENCES store(sid)
```

```
);
```

```
CREATE TABLE customer(  
    pid INT PRIMARY KEY,  
    location VARCHAR(200),  
    preference_store int,  
    FOREIGN KEY (pid) REFERENCES people(pid),  
    FOREIGN KEY (preference_store) REFERENCES store(sid)
```

```
);
```

```
CREATE TABLE product(  
    prid INT PRIMARY KEY,  
    name VARCHAR(100),  
    price DECIMAL(8,2),  
    sid int,  
    aisle VARCHAR(30),  
    on_sale int,  
    stock int,  
    category_id int,  
    FOREIGN KEY (sid) REFERENCES store(sid),  
    FOREIGN KEY (category_id) REFERENCES category(cid)
```

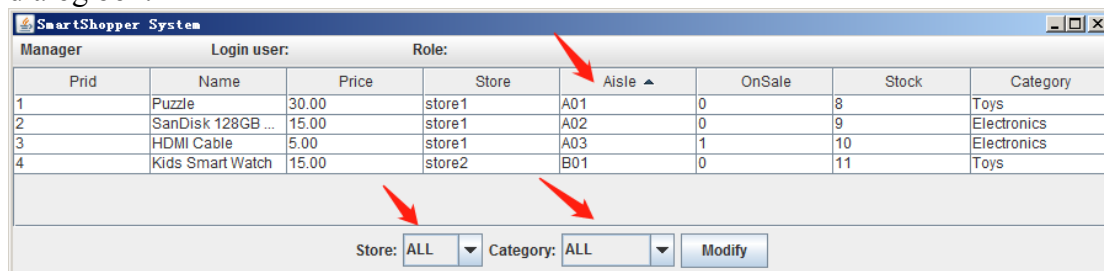
```
);
```

```

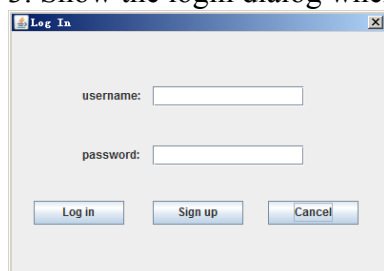
CREATE TABLE purchase(
    purchase_id INT PRIMARY key,
    prid INT NOT NULL,
    cid INT NOT NULL,
    quantity INT NOT NULL,
    FOREIGN KEY (prid) REFERENCES product(prid),
    FOREIGN KEY (cid) REFERENCES people(pid)
);
INSERT INTO people VALUES(1, 'James Brown', 'c', 'c', 'customer');
INSERT INTO people VALUES(2, 'John Harris', 'm', 'm', 'manager');
INSERT INTO people VALUES(3, 'David Williams', 'a', 'a', 'admin');
INSERT INTO category VALUES(1, 'Toys');
INSERT INTO category VALUES(2, 'Electronics');
INSERT INTO store VALUES(1, 'store1', 'street 1, Ottawa, Canada', 8, 20);
INSERT INTO store VALUES(2, 'store2', 'street 2, Ottawa, Canada', 8, 20);
INSERT INTO store VALUES(3, 'store3', 'street 3, Ottawa, Canada', 8, 20);
INSERT INTO product VALUES(1, 'Puzzle', 30, 1, 'A01', 0, 5000, 1);
INSERT INTO product VALUES(2, 'SanDisk 128GB microSD', 15, 1, 'A02', 0, 1000, 2);
INSERT INTO product VALUES(3, 'HDMI Cable', 5, 1, 'A03', 1, 2000, 2);
INSERT INTO product VALUES(4, 'Kids Smart Watch', 15, 2, 'B01', 0, 3000, 1);
INSERT INTO manager VALUES(2, 1);
INSERT INTO customer VALUES(1, 'street 4, Ottawa, Canada', 1);
INSERT INTO purchase VALUES(1, 1, 1, 1);

```

2. When the program starts, you can select these two browse products, click the title to sort the data, click the title repeatedly to switch between ascending and descending sorting, and click Modify or other buttons to modify the data to display the login dialog box:



3. Show the login dialog when you click Modify



Enter m password m to login with manager account, manager login can only display

the data of this manager's store:

SmartShopper System  
Manager Login user: John Harris Role: manager

Prid	Name	Price	Store	Aisle	OnSale	Stock	Category
1	Puzzle	30.00	store1	A01	0	8	Toys
2	SanDisk 128GB ...	15.00	store1	A02	0	9	Electronics
3	HDMI Cable	5.00	store1	A03	1	10	Electronics

Store: store1 Category: ALL Modify

Enter a password a when logging in with the administrator account, you can modify the products of all stores:.

SmartShopper System  
Manager Login user: David Williams Role: admin

Prid	Name	Price	Store	Aisle	OnSale	Stock	Category
1	Puzzle	30.00	store1	A01	0	8	Toys
2	SanDisk 128GB ...	15.00	store1	A02	0	9	Electronics
3	HDMI Cable	5.00	store1	A03	1	10	Electronics
4	Kids Smart Watch	15.00	store2	B01	0	11	Toys

Store: ALL Category: ALL Modify

Click on "Store List" and enter your password. When you log in, you can only view the list, not modify it.

Store list Login user: James Brown Role: customer

Sid	Name	Location	Open_Hour	Close_Hour
1	store1	street 1, Ottawa, Canada	8	20
2	store2	street 2, Ottawa, Canada	8	20
3	store3	street 3, Ottawa, Canada	8	20

Close

Enter a password a to be able to modify store data when logging in with administrator.

Store list Login user: David Williams Role: admin

Sid	Name	Location	Open_Hour	Close_Hour
1	store1	street 1, Ottawa, Canada	8	20
2	store2	street 2, Ottawa, Canada	8	20
3	store3	street 3, Ottawa, Canada	8	20

Modify Add Delete Close

### 3. Main Document List

/EECS3311-Project/src/app/SmartShopperApp.java Main Program

/EECS3311-Project/src/model/Mysql.java Define the parameters for connecting to the mysql database

/EECS3311-Project/src/controller/LoginController.java Verify user login, register new users

/EECS3311-Project/src/controller/StoreController.java Modify Store records

/EECS3311-Project/src/controller/PeopleController.java Modify People's records, add Manager

/EECS3311-Project/src/controller/SmartShopperController.java Modify Controller of product

/EECS3311-Project/src/view/AddModifyItemView.java Main window of the program and modify Product

/EECS3311-Project/src/model/Store.java Defining the Store class

/EECS3311-Project/src/model/StoreMysql.java      Read and write Store class from  
Mysql  
/EECS3311-Project/src/unit\_test/SmartShopperModelTest.java    Unit test