

bamazon/philip

Module one: Customer modules

Displaying the stock in the store initial data.

The customer is limited to see only transactions related information that he/she needs.

Existing Inventory Sales:
.....

Item_ID	Product_Name	Price
1	shoes	12
2	phone	560
3	banana	1.99
4	paint	5
5	paris bow	12
6	shoes	12
7	home theater	1200
8	tomatoe sidling	0.99
9	door	120
10	table	240
11	fridge	1200
12	gold	2600

The following information below is the corresponding data from the bamazon2 database

MySQL Workbench

Query 1 x bamazon2sql x bamazon2sql x

Limit to 1000 rows

```

16 stock_quantity int not null default '0'
17 );
18
19 • Select * From products;
20
21 • insert into products(product_name, department_name, price, stock_quantity)
22
23 values('shoes','dsw',12,120),
24
25 ('phone','electronics',560,25),
26

```

100% 24:19

Result Grid Filter Rows: Search Edit: Export/Import:

	item_id	product_name	department_name	price	stock_quantity	product_sales
▶	1	shoes	dsw	12.00	116	48
	2	phone	electronics	560.00	25	0
	3	banana	walmar	1.99	53	2
	4	paint	ware house	5.00	47	15
	5	paris bow	kitch appliance	12.00	58	24
	6	shoes	dsw	12.00	60	0
	7	home theater	electronic	1200.00	25	0
	8	tomatoe sidling	gardening	0.99	354	6
	9	door	ware house	120.00	25	0
	10	table	slamberland	240.00	23	480
	11	fridge	sears	1200.00	24	1200
	12	gold	ornaments	2600.00	9	7800

The customer application can be invoked using the below command line interface CLI.
 \$ node bamazonCustomer.js

```
Philips-MacBook-Pro:bamazon2 philipowusu$ node bamazonCustomer.js
```

For the other application one can follow similar suit as bamazonManager.js and bamazonSupervisor.js respectively.

2. Customer request to place an order by entering item id and quantity to be purchased.

? Please enter the Item ID which you would like to purchase. 7
 ? Number of items you want to buy? 2
 Congratulations, the product you requested is in stock! Placing order!

Your order has been placed! Your total is: \$2400
 Thank you for shopping with us!

Current database status in terms of item with id=7 and quantity in stock has been reduced by 2. By ordering the stock quantity reduced from 25 to 23 and product sales is tally according by estimating the price by the quantity of products purchased by the customer.

MySQL Workbench

Query 1 x bamazon2sql x bamazon2sql x

Limit to 1000 rows

```

16 stock_quantity int not null default '0'
17 );
18
19 Select * From products;
20

```

100% 1:22

Result Grid Filter Rows: Search Edit: Ex

item_id	product_name	department_name	price	stock_quantity	product_sales
1	shoes	dsw	12.00	116	48
2	phone	electronics	560.00	25	0
3	banana	walmar	1.99	53	2
4	paint	ware house	5.00	47	15
5	paris bow	kitch appliance	12.00	58	24
6	shoes	dsw	12.00	60	0
7	home theater	electronic	1200.00	23	2400
8	tomatoe sidling	gardening	0.99	354	6
9	door	ware house	120.00	25	0
10	table	slamberland	240.00	23	480
11	fridge	sears	1200.00	24	1200
12	gold	ornaments	2600.00	9	7800
NULL	NULL	NULL	NULL	NULL	NULL

Customer-cli


```
36
37 function display_products() {
38
39     // Construct the db query string
40     queryStr = 'SELECT * FROM products';
41
42     // Make the db query
43     connection.query(queryStr, function (err, data) {
44         if (err) throw err;
45
46         console.log('.....\n');
47         console.log('Existing Inventory: Select 1-12:');
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

3	banana	1.99
4	paint	5
5	paris bow	12
6	shoes	12
7	home theater	1200
8	tomatoe sidling	0.99
9	door	120
10	table	240
11	fridge	1200
12	gold	2600

? Please enter the Item ID which you would like to purchase. 7

? Number of items you want to buy? 2

Congratulations, the product you requested is in stock! Placing order!

Your oder has been placed! Your total is: \$2400
Thank you for shopping with us!

Note:

Error correction is also dealt with when the customer enters anything which is illegal like instead of a number they accidentally enters decimal or string.

```
? Please enter the Item ID which you would like to purchase.
>> Please enter whole number
```

Operation of application: Display store/site inventory (display screen shots of operation)

- check if product exists in the inventory.
- if there is sufficient/insufficient stock/inventory available to meet customer request.
- Quantity of product to enter cannot be in fraction or decimals

Module two: Manager module

This module has 4 functions:

- View products for sale

```
*** Existing Inventory ***
```

```
.....
```

Item_ID	Product Name	Department Name	Price	Stock Products	Product Sales
1	shoes	dsw	12	116	48
2	phone	electronics	560	25	0
3	banana	walmar	1.99	53	2
4	paint	ware house	5	47	15
5	paris bow	kitch appliance	12	58	24
6	shoes	dsw	12	60	0
7	home theater	electronic	1200	23	2400
8	tomatoe sidling	gardening	0.99	354	6
9	door	ware house	120	25	0
10	table	slamberland	240	23	480
11	fridge	sears	1200	24	1200
12	gold	ornaments	2600	9	7800

- View low inventory

```
? Please select an option: View Low Inventory
Sorry, All stocks are up to capacity!
```

This is because there was no stock which the quantity is less than 5. To test for this, since ornaments as quantity of 9 we will place an order from the customer cli and come back to test for this again.

```
*** Low Inventory Items (below 100): ***
```

```
.....
```

Item_ID	Product Name	Department Name	Price	Stock Products	Product Sales
12	gold	ornaments	2600	4	20800

3. Add inventory to existing stock/inventory

```
Philips-MacBook-Pro:bamazon2 philipowusu$ node bamazonManager.js
```

```
? Please select an option: Add to Inventory
```

```
? Please enter the Item ID for stock_count update. 12
```

```
? How many would you like to add? 15
```

```
Updating Inventory...
```

```
Stock count for Item ID 12 has been updated to 19.
```

Now database item with id 12 quantity has change to 19

Query 1 x bamazon2sql x bamazon2sql x

Limit to 1000 rows

```

16 stock_quantity int not null default '0'
17 );
18
19 Select * From products;
20

```

100% 1:18

Result Grid Filter Rows: Search Edit: Expo

item_id	product_name	department_name	price	stock_quantity	product_sales
1	shoes	dsw	12.00	116	48
2	phone	electronics	560.00	25	0
3	banana	walmar	1.99	53	2
4	paint	ware house	5.00	47	15
5	paris bow	kitch appliance	12.00	58	24
6	shoes	dsw	12.00	60	0
7	home theater	electronic	1200.00	23	2400
8	tomatoe sidling	gardening	0.99	354	6
9	door	ware house	120.00	25	0
10	table	slamberland	240.00	23	480
11	fridge	sears	1200.00	24	1200
12	gold	ornaments	2600.00	19	20800
NULL	NULL	NULL	NULL	NULL	NULL

4. Add brand new product all together

```

? Please select an option: Add New Product
? Please enter the new product name. flower
? Department name the new product belong to? flowers
? What is the price per unit? 12
? How many items are in stock? 25
Adding New Item:
    product_name = flower
    department_name = flowers
    price = 12
    stock_quantity = 25
New product has been added to the inventory under Item ID 13.

```

Module three: Supervisor module

This module has 2 functions.

1. Create a new department.
2. View product sales by department

Operations of module supervisor's application.

a. Create a new department.

```
? What is the action to be performed ? Add A New Department
-----New Department added-----
? Enter New Department Name? Lightning
? Enter New Department overhead? 120
New department has been added under dept ID 9.
```

b. View products sales by department.

```
? What is the action to be performed ? Add A New Department
-----New Department added-----
? Enter New Department Name? Lightning
? Enter New Department overhead? 120
New department has been added under dept ID 9.
```

There is error correction if the supervisor makes any mistake that will check and help the supervisor to rectify the error before data can be push to that database. Some of the common error captured are entering an already existing department name. The application will notify you of duplicate department names.

For example: try and create a new department and try and add that same department name again.

```
-----New Department added-----
? Enter New Department Name? flowers
? Enter New Department overhead? nanana
Department already exists, No duplication allowed
Philips-MacBook-Pro:bamazon2 philipowusu$ node bamazonSupervisor
? What is the action to be performed ? Add A New Department
-----New Department added-----
? Enter New Department Name? flowers
? Enter New Department overhead? 120
Department already exists, No duplication allowed
```