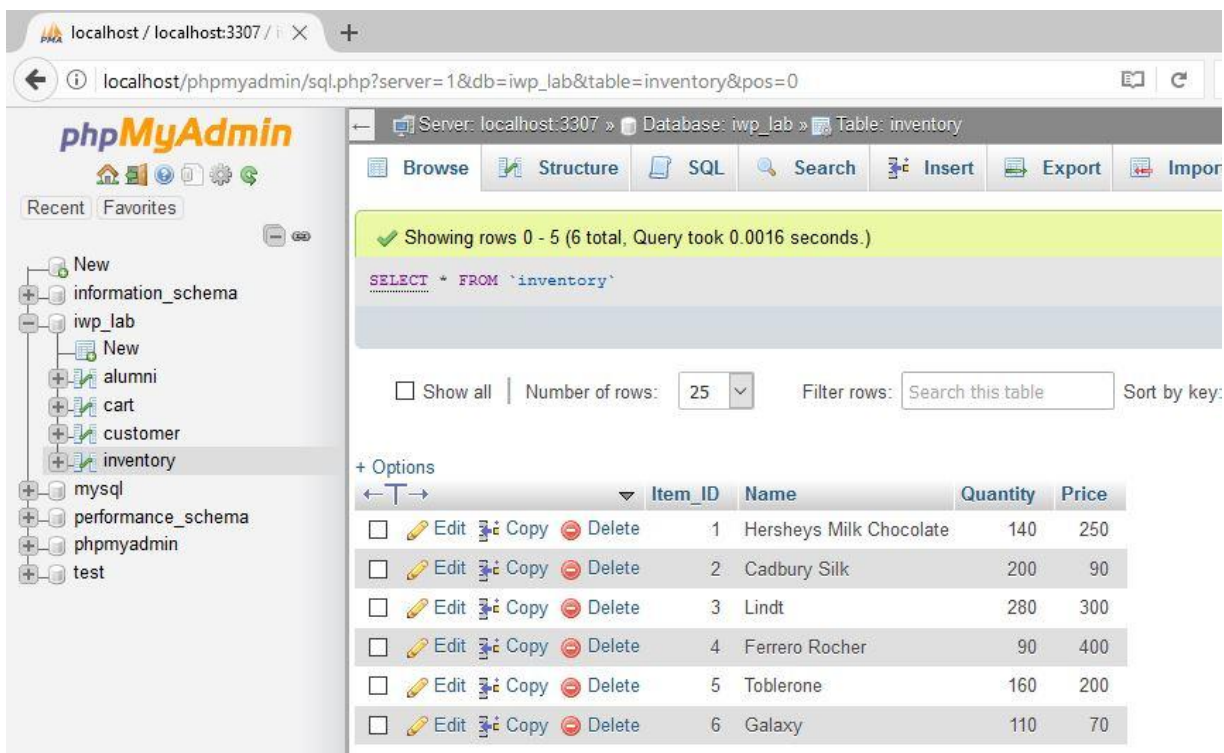


IWP LAB 10

**QUESTION :** Design shopping application using PHP and MySQL. Design a login page and check the credentials with a MySQL table for username and password. After sign-in display a catalogue page with products and quantity. The user must select the items and quantity. Add the items to a cart page and display the total cost. Update the item table based on quantity. Include a link for sign-out that redirects to the login page.

**Table : Inventory (Initial)**


localhost / localhost:3307 / phpMyAdmin

localhost/phpmyadmin/sql.php?server=1&db=iwp\_lab&table=inventory&pos=0

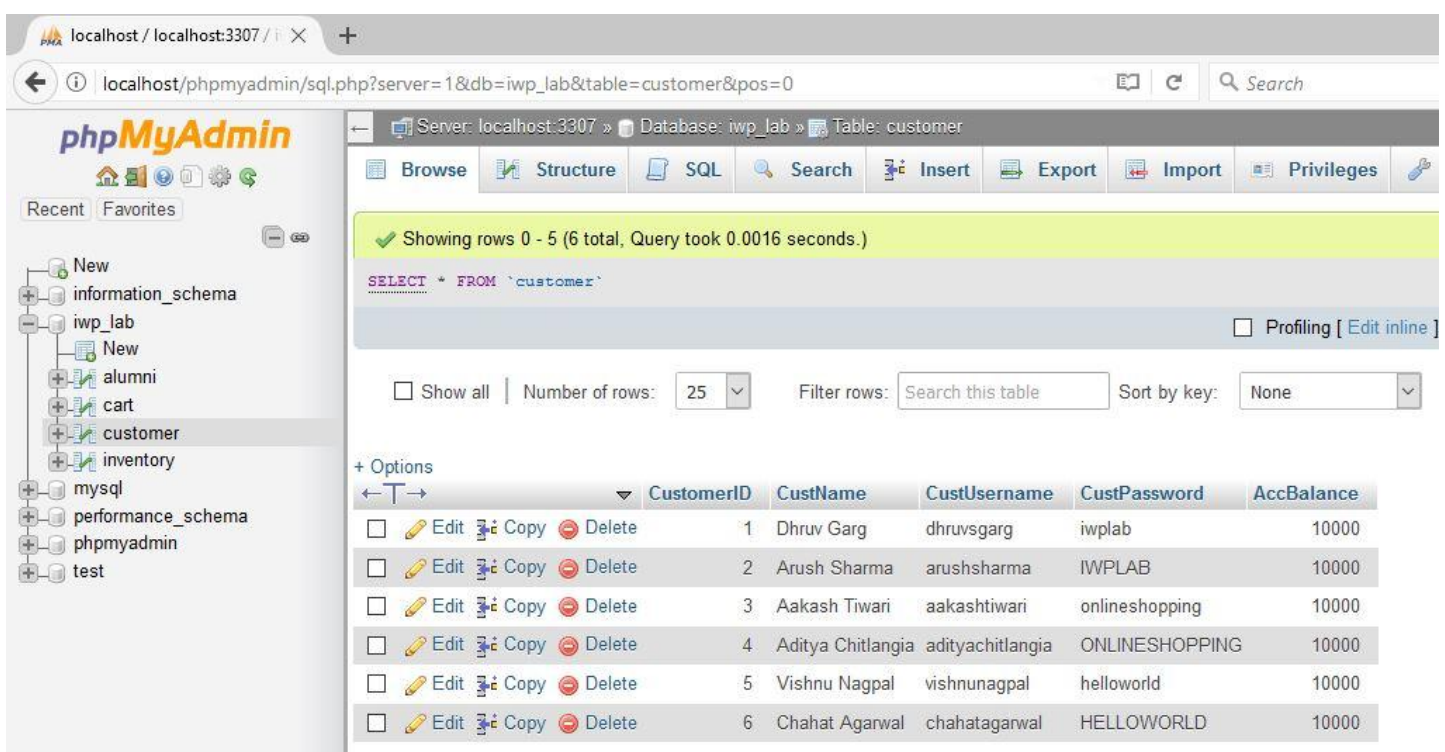
Server: localhost:3307 » Database: iwp\_lab » Table: inventory

Showing rows 0 - 5 (6 total, Query took 0.0016 seconds.)

SELECT \* FROM `inventory`

Number of rows: 25 Filter rows: Search this table Sort by key:

	Item_ID	Name	Quantity	Price
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Hersheys Milk Chocolate	140	250
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Cadbury Silk	200	90
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Lindt	280	300
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Ferrero Rocher	90	400
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Toblerone	160	200
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Galaxy	110	70

**Table : Customer (Initial)**


localhost / localhost:3307 / phpMyAdmin

localhost/phpmyadmin/sql.php?server=1&db=iwp\_lab&table=customer&pos=0

Server: localhost:3307 » Database: iwp\_lab » Table: customer

Showing rows 0 - 5 (6 total, Query took 0.0016 seconds.)

SELECT \* FROM `customer`

Number of rows: 25 Filter rows: Search this table Sort by key: None

	CustomerID	CustName	CustUsername	CustPassword	AccBalance
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Dhruv Garg	dhruvsgarg	iwplab	10000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Arush Sharma	arushsharma	IWPLAB	10000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Aakash Tiwari	aakashtiwari	onlineshopping	10000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Aditya Chitlangia	adityachitlangia	ONLINESHOPPING	10000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Vishnu Nagpal	vishnunagpal	helloworld	10000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Chahat Agarwal	chahatagarwal	HELLOWORLD	10000

Table : Cart (Initial)

The screenshot shows the phpMyAdmin interface. On the left, the database structure is visible, including 'information\_schema', 'iwip\_lab', and 'New'. The 'iwip\_lab' database is selected, and the 'cart' table is highlighted. The main panel shows the 'Table: cart' view with tabs for 'Browse', 'Structure', 'SQL', 'Search', 'Insert', and 'Export'. A message states: 'MySQL returned an empty result set (i.e. zero rows). (Query took 0.0013 seconds.)'. Below this, the SQL query 'SELECT \* FROM `cart`' is shown. At the bottom, the table structure is displayed with columns: ItemID, ItemName, ItemPrice, ItemQty, and Cost.

**CASE 1 : All input quantities are valid (input quantity  $\leq$  inventory quantity) and customer has sufficient balance**

The screenshot shows a web browser window with the address bar displaying 'localhost/welcome.php'. The page content includes a 'Welcome' message and a 'Sign Out' link.

**DHRUV GARG 16BCE1190**

**Welcome dhruvsgarg**

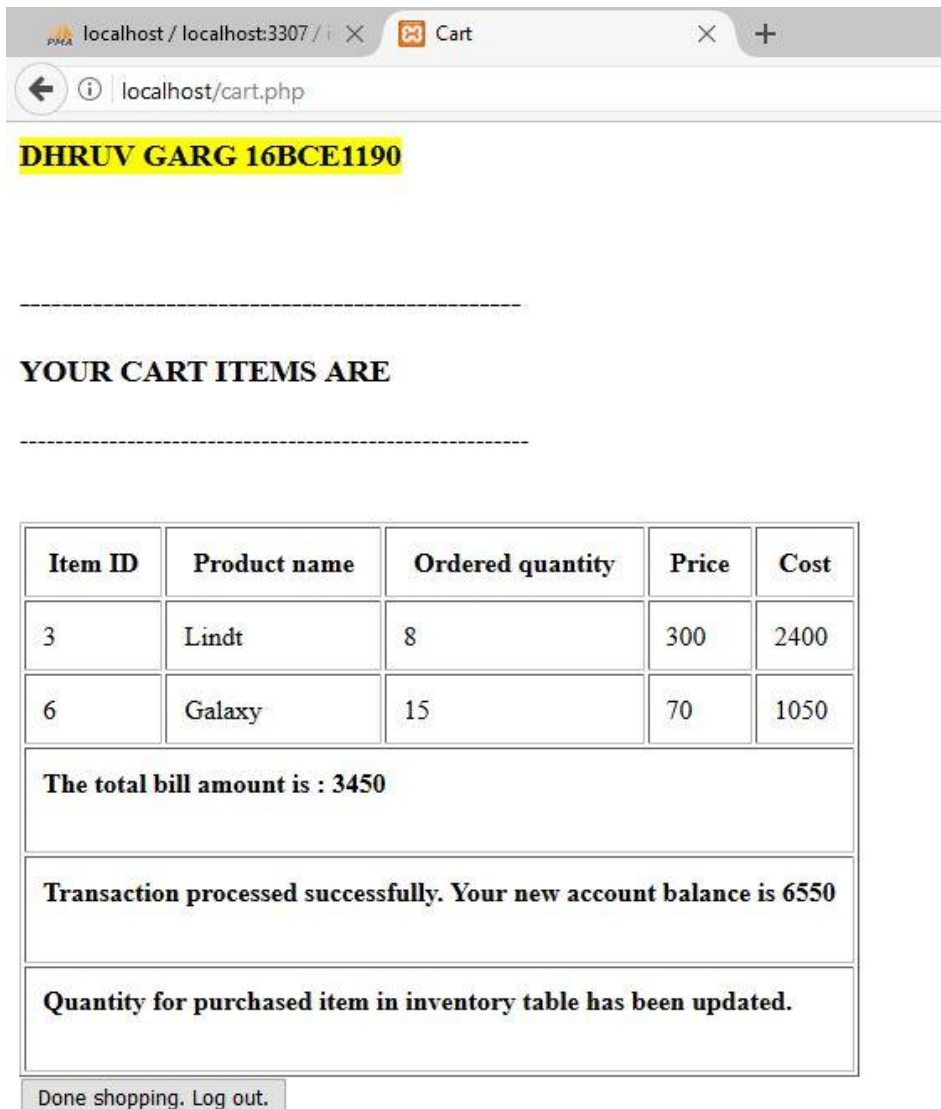
[Sign Out](#)

**WELCOME TO ONLINE SHOPPING**

Item ID	Product name	Available stock	Price	Select to add	Quantity
1	Hersheys Milk Chocolate	140	250	<input type="checkbox"/>	<input type="text"/>
2	Cadbury Silk	200	90	<input type="checkbox"/>	<input type="text"/>
3	Lindt	280	300	<input checked="" type="checkbox"/>	8 <input type="text"/>
4	Ferrero Rocher	90	400	<input type="checkbox"/>	<input type="text"/>
5	Toblerone	160	200	<input type="checkbox"/>	<input type="text"/>
6	Galaxy	110	70	<input checked="" type="checkbox"/>	15 <input type="text"/>

**Place order**

Displays the items in the cart based on the items selected, quantity input and the total cost of each item.



**DHRUV GARG 16BCE1190**

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**YOUR CART ITEMS ARE**

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Item ID	Product name	Ordered quantity	Price	Cost
3	Lindt	8	300	2400
6	Galaxy	15	70	1050

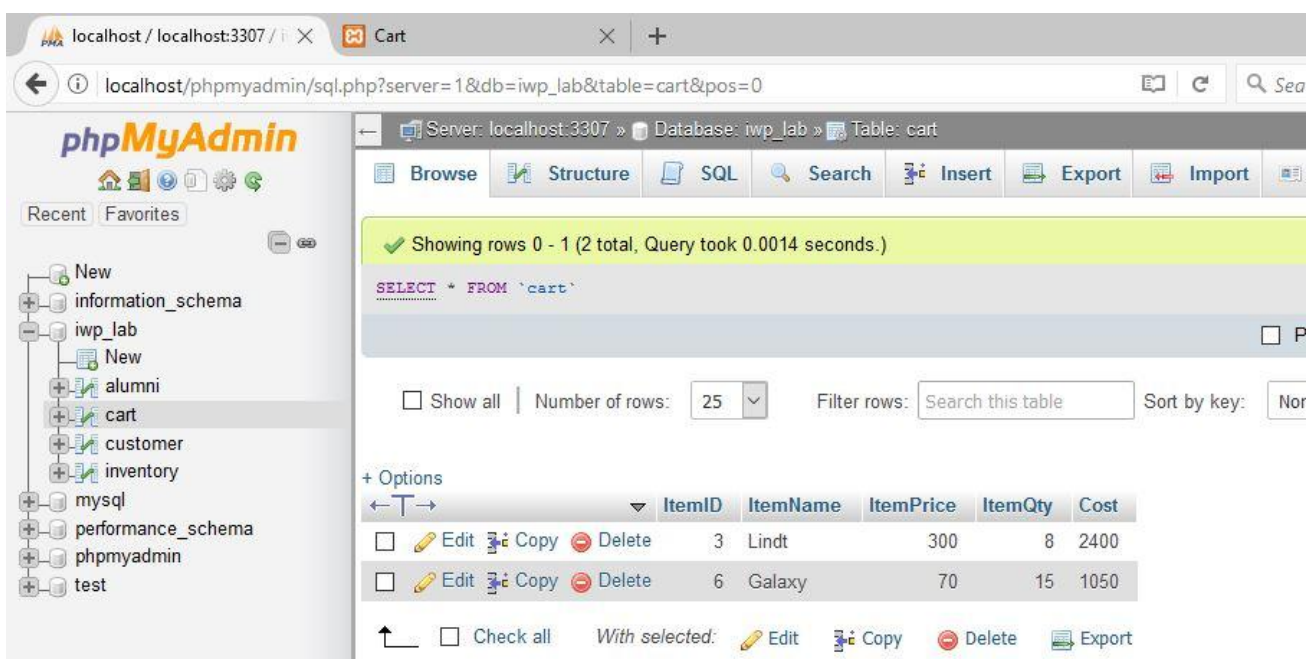
**The total bill amount is : 3450**

**Transaction processed successfully. Your new account balance is 6550**

**Quantity for purchased item in inventory table has been updated.**

Done shopping. Log out.

We can see that the selected items are also present in “Cart” database.



localhost / localhost:3307 / iwp\_lab Cart

localhost/phpmyadmin/sql.php?server=1&db=iwp\_lab&table=cart&pos=0

Server: localhost:3307 » Database: iwp\_lab » Table: cart

Showing rows 0 - 1 (2 total, Query took 0.0014 seconds.)

`SELECT * FROM `cart``

Number of rows: 25 Filter rows: Search this table Sort by key: Normal

	ItemID	ItemName	ItemPrice	ItemQty	Cost
<input type="checkbox"/> Edit Copy Delete	3	Lindt	300	8	2400
<input type="checkbox"/> Edit Copy Delete	6	Galaxy	70	15	1050

Check all With selected: Edit Copy Delete Export



## Updated "Customer" table with changed account balance for user "dhruvgarg"

Server: localhost:3307 » Database: iwp\_lab » Table: customer

Showing rows 0 - 5 (6 total, Query took 0.0023 seconds.)

```
SELECT * FROM `customer`
```

Options: ☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	CustomerID	CustName	CustUsername	CustPassword	AccBalance
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Dhruv Garg	dhruvsgarg	iwplab	6550
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Arush Sharma	arushsharma	IWPLAB	10000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Aakash Tiwari	aakashtiwari	onlineshopping	10000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Aditya Chitlangia	adityachitlangia	ONLINESHOPPING	10000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Vishnu Nagpal	vishnunagpal	helloworld	10000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Chahat Agarwal	chahatagarwal	HELLOWORLD	10000

## CASE 2 : Total bill amount is greater than the account balance of user.

localhost/welcome.php

**DHRUV GARG 16BCE1190**

**Welcome aakashtiwari**

[Sign Out](#)

WELCOME TO ONLINE SHOPPING

Item ID	Product name	Available stock	Price	Select to add	Quantity
1	Hersheys Milk Chocolate	140	250	<input checked="" type="checkbox"/>	20
2	Cadbury Silk	200	90	<input checked="" type="checkbox"/>	30
3	Lindt	272	300	<input type="checkbox"/>	
4	Ferrero Rocher	90	400	<input checked="" type="checkbox"/>	10
5	Toblerone	160	200	<input type="checkbox"/>	
6	Galaxy	95	70	<input type="checkbox"/>	

Place order

We can see that the total amount is greater than account balance of the user. Purchase is cancelled.

localhost / localhost:3307 / i X Cart X +

localhost/cart.php

**DHRUV GARG 16BCE1190**

---

**YOUR CART ITEMS ARE**

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Item ID	Product name	Ordered quantity	Price	Cost
1	Hersheys Milk Chocolate	20	250	5000
2	Cadbury Silk	30	90	2700
4	Ferrero Rocher	10	400	4000

The total bill amount is : 11700

Sorry, account balance is insufficient. Please top up your account balance. Cancelling purchase.

Quantity for purchased item in inventory table has been restored.

Done shopping. Log out.

Since the purchase is cancelled, no change in account balance for user "aakashtiwari" occurs.

localhost / localhost:3307 / i X Login Page X +

localhost/phpmyadmin/sql.php?server=1&db=iwp\_lab&table=customer&pos=0

Server: localhost:3307 » Database: iwp\_lab » Table: customer

Browse Structure SQL Search Insert Export Import Privileges

Showing rows 0 - 5 (6 total, Query took 0.0015 seconds.)

SELECT \* FROM `customer`

Profiling [ Edit in ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	CustomerID	CustName	CustUsername	CustPassword	AccBalance
<input type="checkbox"/> Edit Copy Delete	1	Dhruv Garg	dhruvsgarg	iwpplab	6550
<input type="checkbox"/> Edit Copy Delete	2	Arush Sharma	arushsharma	IWPLAB	10000
<input type="checkbox"/> Edit Copy Delete	3	Aakash Tiwari	aakashtiwari	onlineshopping	10000
<input type="checkbox"/> Edit Copy Delete	4	Aditya Chitlangia	adityachitlangia	ONLINESHOPPING	10000
<input type="checkbox"/> Edit Copy Delete	5	Vishnu Nagpal	vishnunagpal	helloworld	10000
<input type="checkbox"/> Edit Copy Delete	6	Chahat Agarwal	chahatagarwal	HELLOWORLD	10000

Check all | With selected: Edit Copy Delete Export

CASE 3 : Some items have valid input while in some cases input quantity > inventory quantity

localhost / localhost:3307 / i X Welcome X +

localhost/welcome.php

**DHRUV GARG 16BCE1190**

**Welcome adityachitlangia**

[Sign Out](#)

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**WELCOME TO ONLINE SHOPPING**

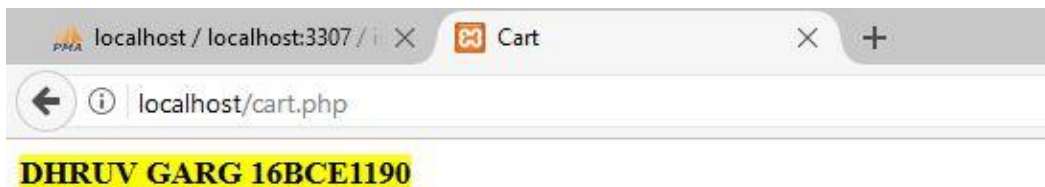
-----

Item ID	Product name	Available stock	Price	Select to add	Quantity
1	Hersheys Milk Chocolate	140	250	<input checked="" type="checkbox"/>	<input type="text" value="30"/>
2	Cadbury Silk	200	90	<input checked="" type="checkbox"/>	<input type="text" value="5"/>
3	Lindt	272	300	<input type="checkbox"/>	<input type="text"/>
4	Ferrero Rocher	90	400	<input type="checkbox"/>	<input type="text"/>
5	Toblerone	160	200	<input type="checkbox"/>	<input type="text"/>
6	Galaxy	95	70	<input checked="" type="checkbox"/>	<input type="text" value="120"/>

Place order

In this case the first two items have a valid input while the last item added to cart has an invalid input (input quantity > inventory quantity).

Hence, we cannot provide the customer with 120 Galaxy chocolates, but we can give the customer 30 of Hersheys Milk Chocolate and 5 Cadbury Silk. He should be billed for the latter two and not for Galaxy chocolate.



Insufficient stock! Item 'Galaxy' cannot be purchased.

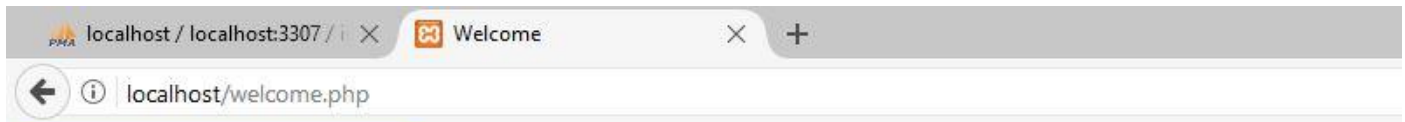
Deleting item : 'Galaxy' from the cart. We regret the inconvenience caused.

## YOUR CART ITEMS ARE

Item ID	Product name	Ordered quantity	Price	Cost
1	Hersheys Milk Chocolate	30	250	7500
2	Cadbury Silk	5	90	450
The total bill amount is : 7950				
Transaction processed successfully. Your new account balance is 2050				
Quantity for purchased item in inventory table has been updated.				

Done shopping. Log out.

CASE 4 : Some inputs are valid, but total bill is greater than account balance. For some inputs, input quantity > inventory quantity.



**DHRUV GARG 16BCE1190**

**Welcome chahatagarwal**

[Sign Out](#)

WELCOME TO ONLINE SHOPPING

Item ID	Product name	Available stock	Price	Select to add	Quantity
1	Hersheys Milk Chocolate	110	250	<input type="checkbox"/>	<input type="text"/>
2	Cadbury Silk	195	90	<input checked="" type="checkbox"/>	40 <input type="text"/>
3	Lindt	272	300	<input checked="" type="checkbox"/>	12 <input type="text"/>
4	Ferrero Rocher	90	400	<input checked="" type="checkbox"/>	100 <input type="text"/>
5	Toblerone	160	200	<input checked="" type="checkbox"/>	30 <input type="text"/>
6	Galaxy	95	70	<input type="checkbox"/>	<input type="text"/>

Place order





**DHRUV GARG 16BCE1190**

**Insufficient stock! Item 'Ferrero Rocher' cannot be purchased.**

Deleting item : 'Ferrero Rocher' from the cart. We regret the inconvenience caused.

**YOUR CART ITEMS ARE**

Item ID	Product name	Ordered quantity	Price	Cost
2	Cadbury Silk	40	90	3600
3	Lindt	12	300	3600
5	Toblerone	30	200	6000
The total bill amount is : 13200				
Sorry, account balance is insufficient. Please top up your account balance. Cancelling purchase.				
Quantity for purchased item in inventory table has been restored.				

Done shopping. Log out.

## CASE 5 : Valid inputs and total bill &lt; account balance

localhost / localhost:3307 / Welcome

localhost/welcome.php

**DHRUV GARG 16BCE1190**

**Welcome vishnunagpal**

[Sign Out](#)

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**WELCOME TO ONLINE SHOPPING**

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Item ID	Product name	Available stock	Price	Select to add	Quantity
1	Hersheys Milk Chocolate	110	250	<input checked="" type="checkbox"/>	10
2	Cadbury Silk	195	90	<input type="checkbox"/>	
3	Lindt	272	300	<input checked="" type="checkbox"/>	10
4	Ferrero Rocher	90	400	<input type="checkbox"/>	
5	Toblerone	160	200	<input checked="" type="checkbox"/>	5
6	Galaxy	95	70	<input type="checkbox"/>	

Place order

Here all the inputs are valid and total bill is expected to be less than account balance.



**DHRUV GARG 16BCE1190**

**YOUR CART ITEMS ARE**

Item ID	Product name	Ordered quantity	Price	Cost
1	Hersheys Milk Chocolate	10	250	2500
3	Lindt	10	300	3000
5	Toblerone	5	200	1000
The total bill amount is : 6500				
Transaction processed successfully. Your new account balance is 3500				
Quantity for purchased item in inventory table has been updated.				
Done shopping. Log out.				

**Table : Customer (final)**

Server: localhost:3307 » Database: iwp\_lab » Table: customer

Showing rows 0 - 5 (6 total, Query took 0.0017 seconds.)

```
SELECT * FROM `customer`
```

Number of rows: 25 Filter rows: Search this table Sort by key: None

	CustomerID	CustName	CustUsername	CustPassword	AccBalance
<input type="checkbox"/> Edit Copy Delete	1	Dhruv Garg	dhruvsgarg	iwplab	6550
<input type="checkbox"/> Edit Copy Delete	2	Arush Sharma	arushsharma	IWPLAB	10000
<input type="checkbox"/> Edit Copy Delete	3	Aakash Tiwari	aakashtiwari	onlineshopping	10000
<input type="checkbox"/> Edit Copy Delete	4	Aditya Chitlangia	adityachitlangia	ONLINESHOPPING	2050
<input type="checkbox"/> Edit Copy Delete	5	Vishnu Nagpal	vishnunagpal	helloworld	3500
<input type="checkbox"/> Edit Copy Delete	6	Chahat Agarwal	chahatagarwal	HELLOWORLD	10000

## Inventory (final)

localhost / localhost:3307 / Login Page

localhost/phpmyadmin/sql.php?server=1&db=iwp\_lab&table=inventory&pos=0

Server: localhost:3307 » Database: iwp\_lab » Table: inventory

Showing rows 0 - 5 (6 total, Query took 0.0014 seconds.)

```
SELECT * FROM `inventory`
```

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key

+ Options

	Item_ID	Name	Quantity	Price
<input type="checkbox"/> Edit Copy Delete	1	Hersheys Milk Chocolate	100	250
<input type="checkbox"/> Edit Copy Delete	2	Cadbury Silk	195	90
<input type="checkbox"/> Edit Copy Delete	3	Lindt	262	300
<input type="checkbox"/> Edit Copy Delete	4	Ferrero Rocher	90	400
<input type="checkbox"/> Edit Copy Delete	5	Toblerone	155	200
<input type="checkbox"/> Edit Copy Delete	6	Galaxy	95	70

☐ Check all | With selected: Edit Copy Delete Export

## Cart (final)

localhost / localhost:3307 / Logout

localhost/phpmyadmin/sql.php?server=1&db=iwp\_lab&table=cart&pos=0

Server: localhost:3307 » Database: iwp\_lab » Table: ca

MySQL returned an empty result set (i.e. zero rows). (Query to

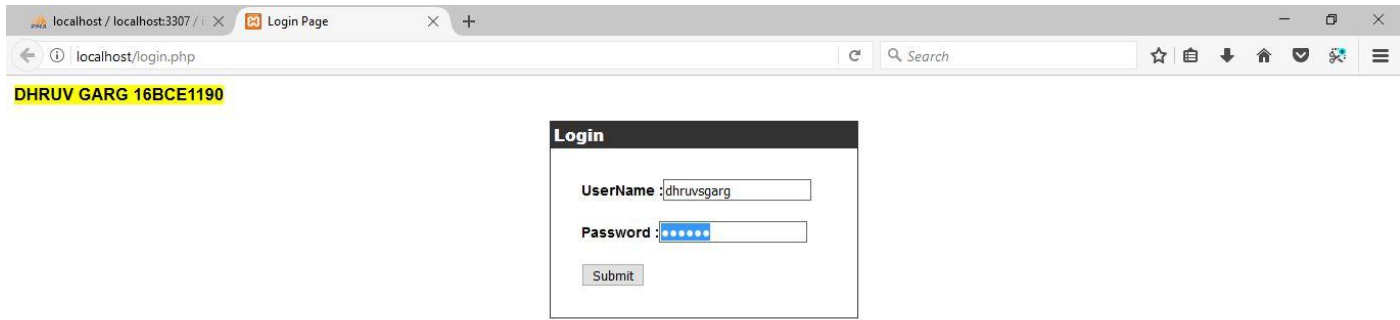
```
SELECT * FROM `cart`
```

ItemID	ItemName	ItemPrice	ItemQty	Cost
--------	----------	-----------	---------	------

Cart table is truncated after each logout from a user. Records are added to it when the user selects items to buy. Thus, after logout, the table becomes empty to be used by the next user.



LOGIN PAGE



LOGOUT PAGE



THANK YOU FOR SHOPPING WITH US!  
WE HOPE TO SEE YOU AGAIN, SOON.

[Return to login page](#)