

HOMEWORK: node.js and mySQL

INTRODUCTION:

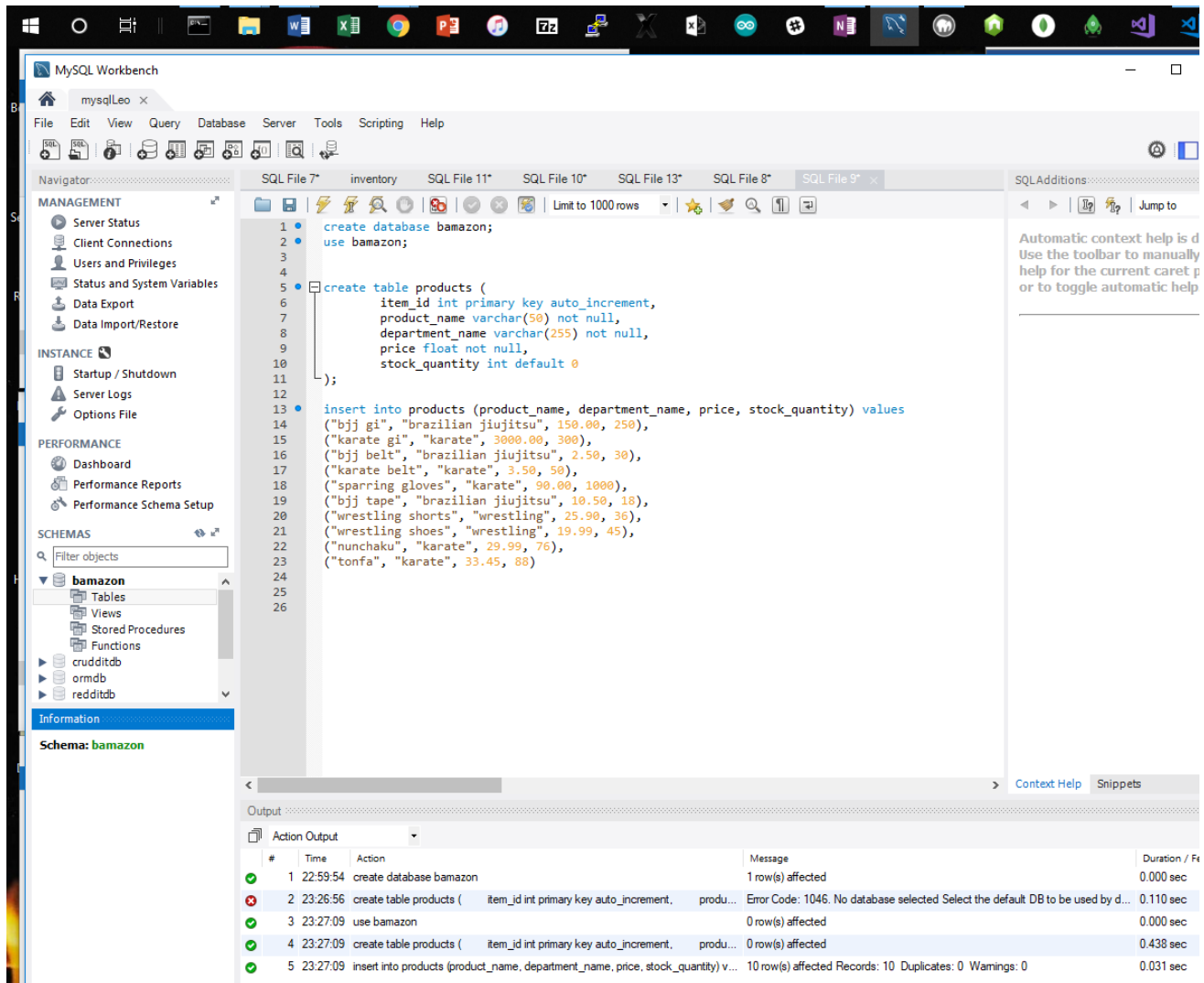
BAMAZON is an Amazon-like storefront with node.js and mySQL.

The app will take in orders from customers and deplete stock from the store's inventory.

SCREENSHOTS:

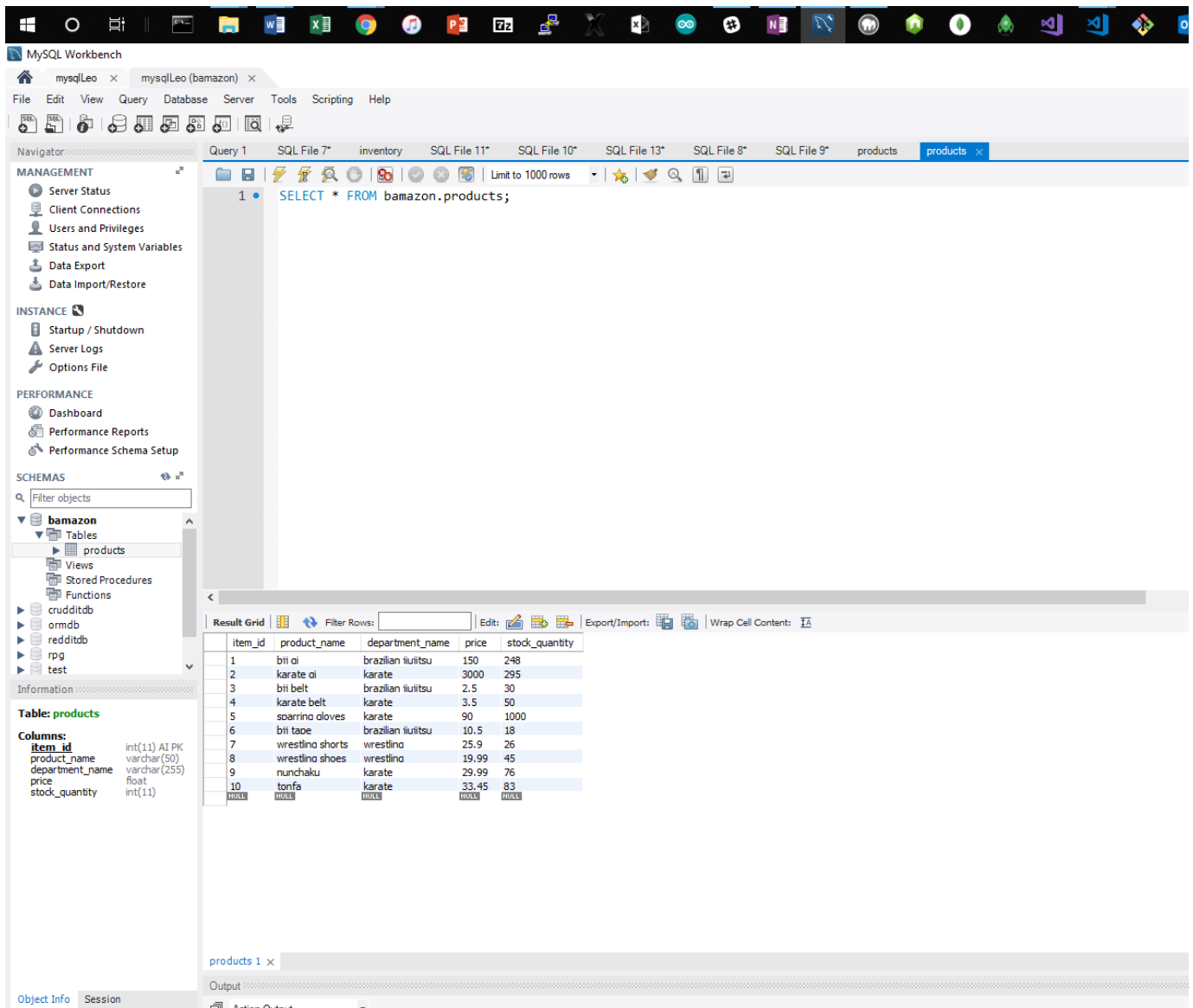
SCREENSHOT 1:

- Shows below the database set up on mySQL workbench. Includes “bamazon” database and table “products”



SCREENSHOT 2:

- Shows below the database set up with 10 products as per instructions.

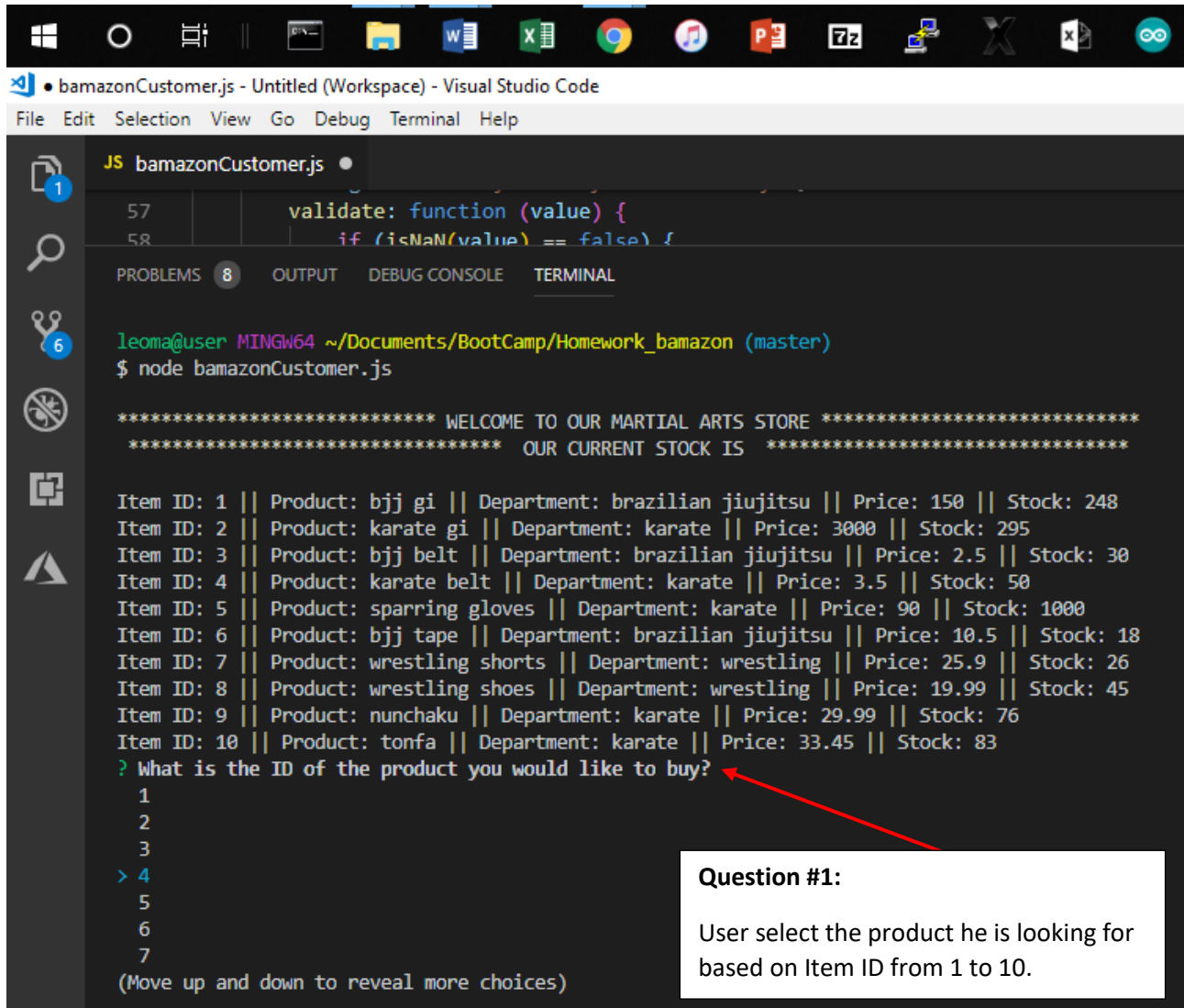


The screenshot displays the MySQL Workbench interface. The left sidebar shows the 'SCHEMAS' tree with the 'amazon' database selected. The 'products' table is highlighted under the 'Tables' folder. The main query editor shows the query: `SELECT * FROM amazon.products;`. The 'Result Grid' at the bottom displays the following data:

item_id	product_name	department_name	price	stock_quantity
1	bti oi	brazilian iiiiitsu	150	248
2	karate oi	karate	3000	295
3	bti belt	brazilian iiiiitsu	2.5	30
4	karate belt	karate	3.5	50
5	soarrino oloves	karate	90	1000
6	bti taoe	brazilian iiiiitsu	10.5	18
7	wrestlino shorts	wrestlino	25.9	26
8	wrestlino shoes	wrestlino	19.99	45
9	nunchaku	karate	29.99	76
10	tonfa	karate	33.45	83

SCREENSHOT 3:

- After you run `node bamazonCustomers.js` or `npm start`, the app displays welcome message, existing stock and ask the first question regarding which product you'd like to purchase. Customer has 10 options to choose based on Product ID (node you see 7 products, but as you scroll down, the list goes up to 10 items).



```
JS bamazonCustomer.js
57     validate: function (value) {
58         if (isNaN(value) == false) {

PROBLEMS 8 OUTPUT DEBUG CONSOLE TERMINAL

leoma@user MINGW64 ~/Documents/BootCamp/Homework_bamazon (master)
$ node bamazonCustomer.js

***** WELCOME TO OUR MARTIAL ARTS STORE *****
***** OUR CURRENT STOCK IS *****

Item ID: 1 || Product: bjj gi || Department: brazilian jiujiitsu || Price: 150 || Stock: 248
Item ID: 2 || Product: karate gi || Department: karate || Price: 3000 || Stock: 295
Item ID: 3 || Product: bjj belt || Department: brazilian jiujiitsu || Price: 2.5 || Stock: 30
Item ID: 4 || Product: karate belt || Department: karate || Price: 3.5 || Stock: 50
Item ID: 5 || Product: sparring gloves || Department: karate || Price: 90 || Stock: 1000
Item ID: 6 || Product: bjj tape || Department: brazilian jiujiitsu || Price: 10.5 || Stock: 18
Item ID: 7 || Product: wrestling shorts || Department: wrestling || Price: 25.9 || Stock: 26
Item ID: 8 || Product: wrestling shoes || Department: wrestling || Price: 19.99 || Stock: 45
Item ID: 9 || Product: nunchaku || Department: karate || Price: 29.99 || Stock: 76
Item ID: 10 || Product: tonfa || Department: karate || Price: 33.45 || Stock: 83
? What is the ID of the product you would like to buy?
  1
  2
  3
  > 4
  5
  6
  7
(Move up and down to reveal more choices)
```

Question #1:

User select the product he is looking for based on Item ID from 1 to 10.

SCREENSHOT 4:

- Shows below the database set up on mySQL workbench. Includes “bamazon” database and table “products”

```
JS bamazonCustomer.js
57 validate: function (value) {
58   if (isNaN(value) == false) {

PROBLEMS 8 OUTPUT DEBUG CONSOLE TERMINAL

leoma@user MINGW64 ~/Documents/BootCamp/Homework_bamazon (master)
$ node bamazonCustomer.js

***** WELCOME TO OUR MARTIAL ARTS STORE *****
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Item ID: 1 || Product: bjj gi || Department: brazilian jiujiutsu || Price: 150 || Stock: 248
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Item ID: 4 || Product: karate belt || Department: karate || Price: 3.5 || Stock: 50
Item ID: 5 || Product: sparring gloves || Department: karate || Price: 90 || Stock: 1000
Item ID: 6 || Product: bjj tape || Department: brazilian jiujiutsu || Price: 10.5 || Stock: 18
Item ID: 7 || Product: wrestling shorts || Department: wrestling || Price: 25.9 || Stock: 26
Item ID: 8 || Product: wrestling shoes || Department: wrestling || Price: 19.99 || Stock: 45
Item ID: 9 || Product: nunchaku || Department: karate || Price: 29.99 || Stock: 76
Item ID: 10 || Product: tonfa || Department: karate || Price: 33.45 || Stock: 83
? What is the ID of the product you would like to buy? 7
? How many would you like to buy? 10

We currently have 26 of wrestling shorts.

CONGRATULATIONS! Your order of 10 wrestling shorts is now being processed... The total price is $259 .

The updated stock of product id #7: wrestling shorts is 16.

***** ONEGAISHIMASU *****
***** OUR CURRENT STOCK IS *****

Item ID: 1 || Product: bjj gi || Department: brazilian jiujiutsu || Price: 150 || Stock: 248
Item ID: 2 || Product: karate gi || Department: karate || Price: 3000 || Stock: 295
Item ID: 3 || Product: bjj belt || Department: brazilian jiujiutsu || Price: 2.5 || Stock: 30
Item ID: 4 || Product: karate belt || Department: karate || Price: 3.5 || Stock: 50
Item ID: 5 || Product: sparring gloves || Department: karate || Price: 90 || Stock: 1000
Item ID: 6 || Product: bjj tape || Department: brazilian jiujiutsu || Price: 10.5 || Stock: 18
Item ID: 7 || Product: wrestling shorts || Department: wrestling || Price: 25.9 || Stock: 16
Item ID: 8 || Product: wrestling shoes || Department: wrestling || Price: 19.99 || Stock: 45
Item ID: 9 || Product: nunchaku || Department: karate || Price: 29.99 || Stock: 76
Item ID: 10 || Product: tonfa || Department: karate || Price: 33.45 || Stock: 83
? What is the ID of the product you would like to buy? (Use arrow keys)
```

Question #2:

1. User provides the quantity he wants to purchase.
2. App alerts the customer if he tries to buy more than what is available in stock.
3. App confirms quantity available in stock
4. App confirms the order, provides TOTAL PRICE
5. App updates the stock

Stock gets updated:

Note updated stock from 26 to 16 after order has been processed.

SCREENSHOT 5:

MySQL Workbench

mysqlLeo x mysqlLeo (bamazon) x

File Edit View Query Database Server Tools Scripting Help

Navigator: MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

Filter objects

bamazon

- Tables
 - products
- Views

Query 1 SQL File 7* inventory SQL File 11* SQL File 10* SQL File 13* SQL File 8*

1 • SELECT * FROM bamazon.products;

Limit to 1000 rows

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell

	item_id	product_name	department_name	price	stock_quantity
	1	bii ai	brazilian iuiitsu	150	248
	2	karate ai	karate	3000	295
	3	bii belt	brazilian iuiitsu	2.5	30
	4	karate belt	karate	3.5	50
	5	soarrina gloves	karate	90	1000
	6	bii taoe	brazilian iuiitsu	10.5	18
	7	wrestlina shorts	wrestlina	25.9	16
	8	wrestlina shoes	wrestlina	19.99	45
	9	nunchaku	karate	29.99	76
	10	tonfa	karate	33.45	83
	NULL	NULL	NULL	NULL	NULL

Stock gets updated on
mySQL:

Note updated stock from 26
to 16 on the mySQL db.

SCREENSHOT 6:

App and mySQL db shows updated stock after purchase:

Note updated stock from 26 to 16 on the mySQL db.

The screenshot displays a Node.js application running in Visual Studio Code and a MySQL database. The application's console output shows a list of products with their current stock levels. The MySQL database query results show the same products with updated stock quantities.

Application Console Output:

```
***** WELCOME TO OUR MARTIAL ARTS STORE *****
***** OUR CURRENT STOCK IS *****

Item ID: 1 || Product: bjj gi || Department: brazilian jiujiutsu || Price: 150 || Stock: 248
Item ID: 2 || Product: karate gi || Department: karate || Price: 3000 || Stock: 295
Item ID: 3 || Product: bjj belt || Department: brazilian jiujiutsu || Price: 2.5 || Stock: 30
Item ID: 4 || Product: karate belt || Department: karate || Price: 3.5 || Stock: 50
Item ID: 5 || Product: sparring gloves || Department: karate || Price: 90 || Stock: 1000
Item ID: 6 || Product: bjj tape || Department: brazilian jiujiutsu || Price: 10.5 || Stock: 18
Item ID: 7 || Product: wrestling shorts || Department: wrestling || Price: 25.9 || Stock: 16
Item ID: 8 || Product: wrestling shoes || Department: wrestling || Price: 19.99 || Stock: 45
Item ID: 9 || Product: nunchaku || Department: Karate || Price: 29.99 || Stock: 76
Item ID: 10 || Product: tonfa || Department: karate || Price: 33.45 || Stock: 83
? What is the ID of the product you would like to buy? 1
? How many would you like to buy? 249

Sorry there is not enough of this product in stock. Check stock available now or come back later...

***** ONEGAISHIMASU *****

Item ID: 1 || Product: bjj gi || Department: brazilian jiujiutsu || Price: 150 || Stock: 248
Item ID: 2 || Product: karate gi || Department: karate || Price: 3000 || Stock: 295
Item ID: 3 || Product: bjj belt || Department: brazilian jiujiutsu || Price: 2.5 || Stock: 30
Item ID: 4 || Product: karate belt || Department: karate || Price: 3.5 || Stock: 50
Item ID: 5 || Product: sparring gloves || Department: karate || Price: 90 || Stock: 1000
Item ID: 6 || Product: bjj tape || Department: brazilian jiujiutsu || Price: 10.5 || Stock: 18
Item ID: 7 || Product: wrestling shorts || Department: wrestling || Price: 25.9 || Stock: 16
Item ID: 8 || Product: wrestling shoes || Department: wrestling || Price: 19.99 || Stock: 45
Item ID: 9 || Product: nunchaku || Department: karate || Price: 29.99 || Stock: 76
Item ID: 10 || Product: tonfa || Department: karate || Price: 33.45 || Stock: 83
? What is the ID of the product you would like to buy? (Use arrow keys)
> 1
```

MySQL Database Query Results:

item_id	product_name	department_name	price	stock_quantity
1	bjj gi	brazilian jiujiutsu	150	248
2	karate gi	karate	3000	295
3	bjj belt	brazilian jiujiutsu	2.5	30
4	karate belt	karate	3.5	50
5	sparring gloves	karate	90	1000
6	bjj tape	brazilian jiujiutsu	10.5	18
7	wrestling shorts	wrestling	25.9	16
8	wrestling shoes	wrestling	19.99	45
9	nunchaku	karate	29.99	76
10	tonfa	karate	33.45	83

Red arrows point from the application console output to the MySQL database query results, highlighting the updated stock quantities for Item ID 6 (BJJ tape) and Item ID 7 (wrestling shorts).

App alerts the customer if he tries to buy more than what is available in stock.