

Node.js & MySQL project

Goal: Update a sql database containing a Harry Potter magical store as a customer, manager, and supervisor.

1. Customer View

```
Nodejs-MySQL --- node bamazonCustomer.js --- 116x16
Anitas-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonCustomer.js
PRODUCTS
item_id  product_name                department_name  price  stock_quantity
-----
1        Bertie Bott's Every Flavour Beans  Candy          2.25   200
2        Chocolate Frog                 Candy          1.25   52
3        Hogwarts, A History            Books          25     100
4        Unfogging the Future           Books          19     100
5        Lacewing Flies                 Apothecary     1.75   2000
6        Boomslang skin                 Apothecary     12     75
7        Dress Robes                    Clothing       50     80
8        Black Hat                      Clothing       5       40
9        Screech Owl                    Pets           25     65
10       Ginger Cat                     Pets           15     10

? Enter the id of the product you would like to buy
```

- shows the products for purchase
- displays input field for item_id that customer wants to buy
- displays input field for number of units customer wants to buy
 - if there are enough in stock_quantity to fulfill the order, successful message and cost of the order is displayed, and the database is updated with the reduced quantity.

```
Nodejs-MySQL --- -bash --- 116x19
Anitas-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonCustomer.js
PRODUCTS
item_id  product_name                department_name  price  stock_quantity
-----
1        Bertie Bott's Every Flavour Beans  Candy          2.25   200
2        Chocolate Frog                 Candy          1.25   52
3        Hogwarts, A History            Books          25     100
4        Unfogging the Future           Books          19     100
5        Lacewing Flies                 Apothecary     1.75   2000
6        Boomslang skin                 Apothecary     12     75
7        Dress Robes                    Clothing       50     80
8        Black Hat                      Clothing       5       40
9        Screech Owl                    Pets           25     65
10       Ginger Cat                     Pets           15     10

? Enter the id of the product you would like to buy 4
? Enter the number of units you would like to buy 7
Your order was successful! Cost: $133
Anitas-MacBook-Pro:Nodejs-MySQL Anita$
```

```
Nodejs-MySQL --- node bamazonCustomer.js --- 116x17
Anitas-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonCustomer.js
PRODUCTS
item_id  product_name                department_name  price  stock_quantity
-----
1        Bertie Bott's Every Flavour Beans  Candy          2.25   200
2        Chocolate Frog                 Candy          1.25   52
3        Hogwarts, A History            Books          25     100
4        Unfogging the Future           Books          19     93
5        Lacewing Flies                 Apothecary     1.75   2000
6        Boomslang skin                 Apothecary     12     75
7        Dress Robes                    Clothing       50     80
8        Black Hat                      Clothing       5       40
9        Screech Owl                    Pets           25     65
10       Ginger Cat                     Pets           15     10

? Enter the id of the product you would like to buy
```

- b. if there aren't enough units in stock, message appears informing customer.

```
Nodejs-MySQL --- -bash --- 116x19
Anita-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonCustomer.js
PRODUCTS
item_id  product_name                department_name  price  stock_quantity
-----
1        Bertie Bott's Every Flavour Beans  Candy          2.25   200
2        Chocolate Frog                 Candy          1.25   52
3        Hogwarts, A History            Books          25     100
4        Unfogging the Future            Books          19     100
5        Lacewing Flies                  Apothecary     1.75   2000
6        Boomslang skin                  Apothecary     12     75
7        Dress Robes                      Clothing       50     80
8        Black Hat                       Clothing       5       40
9        Screech Owl                     Pets           25     65
10       Ginger Cat                      Pets           15     10

? Enter the id of the product you would like to buy 10
? Enter the number of units you would like to buy 12
Sorry, there aren't enough items in stock to fulfill this order
Anita-MacBook-Pro:Nodejs-MySQL Anita$
```

2. Manager View

```
Nodejs-MySQL --- node bamazonManager.js --- 116x12
Anita-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonManager.js
? What would you like to do?
1) View Products for Sale
2) View Low Inventory
3) Add to Inventory
4) Add new product
Answer:
```

- a. prompts the manager to choose an activity
a. 1) View Products for Sale shows all products

```
Nodejs-MySQL --- node bamazonManager.js --- 116x23
Anita-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonManager.js
? What would you like to do? View Products for Sale
PRODUCTS FOR SALE
item_id  product_name                department_name  price  stock_quantity
-----
1        Bertie Bott's Every Flavour Beans  Candy          2.25   200
2        Chocolate Frog                 Candy          1.25   52
3        Hogwarts, A History            Books          25     100
4        Unfogging the Future            Books          19     93
5        Lacewing Flies                  Apothecary     1.75   2000
6        Boomslang skin                  Apothecary     12     75
7        Dress Robes                      Clothing       50     80
8        Black Hat                       Clothing       5       40
9        Screech Owl                     Pets           25     65
10       Ginger Cat                      Pets           15     10

? What would you like to do?
1) View Products for Sale
2) View Low Inventory
3) Add to Inventory
4) Add new product
Answer:
```

- b. 2) View Low Inventory shows items that have less than 5 in stock

```
Nodejs-MySQL — node bamazonManager.js — 116x13
Anita-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonManager.js
? What would you like to do? View Low Inventory
LOW INVENTORY
item_id  product_name  department_name  price  stock_quantity
-----
10      Ginger Cat    Pets             15     4

? What would you like to do?
1) View Products for Sale
2) View Low Inventory
3) Add to Inventory
4) Add new product
Answer: █
```

- c. 3) Add To Inventory prompts manager to select from a list of products and add a value greater than 0. Ginger Cats now has a stock_quantity of 104!

```
Nodejs-MySQL — node bamazonManager.js — 116x11
? What would you like to do? Add to Inventory
ADD TO INVENTORY
? Choose the item you wish to add more of (Use arrow keys)
> Bertie Bott's Every Flavour Beans
Chocolate Frog
Hogwarts, A History
Unfogging the Future
Lacewing Flies
Boomslang skin
Dress Robes
(Move up and down to reveal more choices)
```

```
Nodejs-MySQL — -bash — 116x12
Anita-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonManager.js
? What would you like to do? Add to Inventory
ADD TO INVENTORY
? Choose the item you wish to add more of Ginger Cat
? Enter the number of units you would like to add 100
Your addition to the inventory of Ginger Cat was successful!
Anita-MacBook-Pro:Nodejs-MySQL Anita$ █
```

```
Nodejs-MySQL — node bamazonManager.js — 116x21
? What would you like to do? View Products for Sale
PRODUCTS FOR SALE
item_id  product_name  department_name  price  stock_quantity
-----
1      Bertie Bott's Every Flavour Beans  Candy  2.25  200
2      Chocolate Frog  Candy  1.25  52
3      Hogwarts, A History  Books  25  100
4      Unfogging the Future  Books  19  93
5      Lacewing Flies  Apothecary  1.75  2000
6      Boomslang skin  Apothecary  12  75
7      Dress Robes  Clothing  50  80
8      Black Hat  Clothing  8  40
9      Screech Owl  Pets  25  65
10     Ginger Cat  Pets  15  104

? What would you like to do?
1) View Products for Sale
2) View Low Inventory
3) Add to Inventory
4) Add new product
Answer: █
```

d. 4) Add New Product allows the manager to add a product to the database. The nimbus 2000 broom has been inserted into the table!

```
Nodejs-MySQL — node bamazonManager.js — 116x10
Anitas-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonManager.js
? What would you like to do? Add new product
ADD A NEW PRODUCT
? Enter the product name you would like to add Nimbus 2000
? Enter the department name Sport Equipment
? Enter the price 200
? Enter the quantity 30
1 product inserted!
```

```
Nodejs-MySQL — node bamazonManager.js — 116x23
Anitas-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonManager.js
? What would you like to do? View Products for Sale
PRODUCTS FOR SALE
item_id  product_name                department_name  price  stock_quantity
-----
1        Bertie Bott's Every Flavour Beans  Candy          2.25   200
2        Chocolate Frog                  Candy          1.25   52
3        Hogwarts, A History             Books          25     101
4        Unfogging the Future             Books          19     93
5        Lacewing Flies                  Apothecary     1.75   2000
6        Boomslang skin                  Apothecary     12     75
7        Dress Nakes                     Clothing       89     89
8        Black Hat                       Clothing       5      60
9        Screech Owl                     Pets          25     65
10       Ginger Cat                      Pets          15     104
11       Nimbus 2000                     Sport Equipment 200     30

? What would you like to do?
1) View Products for Sale
2) View Low Inventory
3) Add to Inventory
4) Add new product
Answer: 
```

3. Supervisor View

The supervisor is prompted to do one of two things:

```
Nodejs-MySQL — node bamazonSupervisor.js — 116x5
Anitas-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonSupervisor.js
? What would you like to do?
1) View Product Sales by Department
2) Create New Department
Answer: 
```

a. 1) View Product Sales by Department

// not currently working...had to add total_profit to the table. Tried:

```
SELECT departments.department_id, departments.department_name,
departments.over_head_costs, products.product_sales, SUM(products.product_sales-
departments.over_head_costs) AS total_profit
FROM departments
LEFT JOIN products ON departments.department_name=products.department_name
GROUP BY departments.department_name;
```

```
Nodejs-MySQL — node bamazonSupervisor.js — 116x19
Anitas-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonSupervisor.js
? What would you like to do? View Product Sales by Department
VIEW PRODUCT SALES BY DEPARTMENT
department_id  department_name  over_head_costs  product_sales  total_profit
-----
1 Candy 100 null null
1 Candy 100 123 null
2 Books 200 null null
2 Books 200 133 null
3 Apothecary 250 5250 null
3 Apothecary 250 null null
4 Clothing 100 null null
4 Clothing 100 null null
5 Pets 300 null null
5 Pets 300 90 null
6 Cauldrons 200 null null
13 Sports Equipment 200 null null
```

b. 2) Create New Department

```
Nodejs-MySQL — node bamazonSupervisor.js — 116x5
Anitas-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonSupervisor.js
? What would you like to do?
1) View Product Sales by Department
2) Create New Department
Answer: 2
```

```
Nodejs-MySQL — node bamazonSupervisor.js — 116x7
Anitas-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonSupervisor.js
? What would you like to do? Create New Department
CREATE NEW DEPARTMENT
? Enter the name of the new department you would like to add Candy
? Enter the overhead costs for the new department 100
That department already exists
```

If an existing Sales department is being added, a prompt appears. Otherwise, it is added:

```
Nodejs-MySQL — node bamazonSupervisor.js — 116x19
Anitas-MacBook-Pro:Nodejs-MySQL Anita$ node bamazonSupervisor.js
? What would you like to do? Create New Department
CREATE NEW DEPARTMENT
? Enter the name of the new department you would like to add Sports Equipment
? Enter the overhead costs for the new department 200
DEPARTMENTS
department_id  department_name  over_head_costs
-----
1 Candy 100
2 Books 200
3 Apothecary 250
4 Clothing 100
5 Pets 300
6 Cauldrons 200
13 Sports Equipment 200

New department inserted!
```

