Bamazon User's Guide

Database preparation
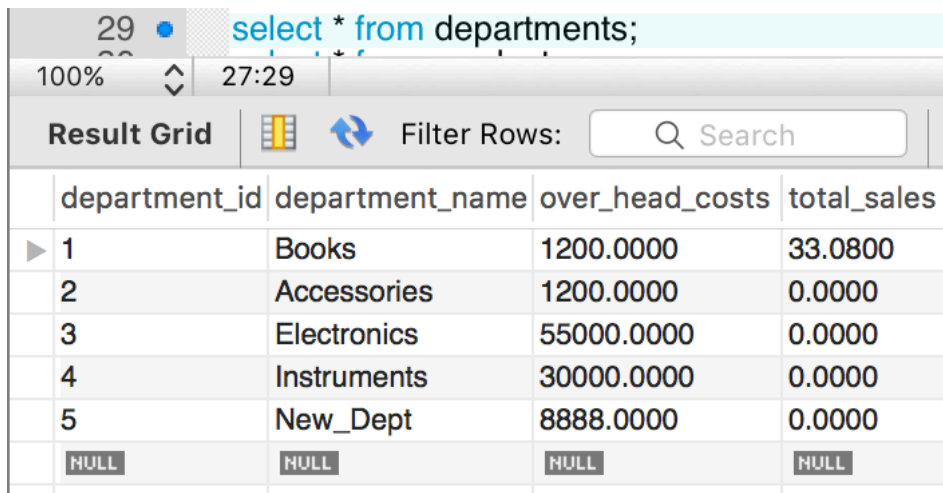
```
CREATE database Bamazon;

USE Bamazon;

CREATE TABLE products (
  item_id INT NOT NULL auto_increment,
  product_name VARCHAR(128) NULL,
  department_name VARCHAR(64) NULL,
  price DECIMAL(10,4) NULL,
  stock_quantity DECIMAL(10,4) NULL,

  PRIMARY KEY (item_id)
);

CREATE TABLE departments (
  department_id INT NOT NULL auto_increment,
  department_name VARCHAR(64) NULL,
  over_head_costs DECIMAL(10,4) NULL,
  total_sales DECIMAL(10,4) NULL,

  PRIMARY KEY (department_id)

);

ALTER TABLE `Bamazon`.`products`
ADD COLUMN `product_sales` DECIMAL(10,4) 0 AFTER `product_sales`;
```

```
32 ●        select * from products;

100%  ⇕  11:27
```

Result Grid	🔲 ↩ Filter Rows:	🔍 Search	Edit: 🖊 ➕ ➖	Export

item_id	product_name	department_name	price	stock_quanti...	product_sales
▶ 1	Harry Porter	Books	12.5000	122.0000	12.5000
2	The Davinci Code	Books	10.2900	10001.0000	20.5800
3	MacBook Pro 2015	Electronics	1099.0000	100.0000	0.0000
4	Seiko Watch	Accessories	59.9900	1000.0000	0.0000
5	Gibson Acoustic Guitar	Instruments	2500.0000	1000.0000	0.0000
6	Java script	Books	3.9900	100.0000	0.0000
NULL	NULL	NULL	NULL	NULL	NULL

Challenge #1

- Database status

item_id	product_name	department_name	price	stock_quantity	product_sales
1	Harry Porter	Books	12.5000	122.0000	12.5000
2	The Davinci Code	Books	10.2900	10001.0000	20.5800
3	MacBook Pro 2015	Electronics	1099.0000	100.0000	0.0000
4	Seiko Watch	Accessories	59.9900	1000.0000	0.0000
5	Gibson Acoustic Guitar	Instruments	2500.0000	998.0000	5000.0000
6	Java script	Books	3.9900	100.0000	0.0000

- User buy 1 Java script book.

```
Trongs-MacBook-Pro:Bamazon dotrong$ node bamazonCustomer.js
Available item in our Store
--------------------------------------------------------
Product_ID |           Product_Name |          Price
1          |      Harry Porter |   12.5

2          |      The Davinci Code |      10.29

3          |      MacBook Pro 2015 |      1099

4          |      Seiko Watch |   59.99

5          |      Gibson Acoustic Guitar |      2500

6          |      Java script |   3.99

? ? What is the id of product you want to buy? 6
? ? How many units of product you want to buy? 1
1items are sold!
Trongs-MacBook-Pro:Bamazon dotrong$ ▮
```

Stock quantity of Java script book reduced to 99, product sales is now $3.99

item_id	product_name	department_name	price	stock_quantity	product_sales
1	Harry Porter	Books	12.5000	122.0000	12.5000
2	The Davinci Code	Books	10.2900	10001.0000	20.5800
3	MacBook Pro 2015	Electronics	1099.0000	100.0000	0.0000
4	Seiko Watch	Accessories	59.9900	1000.0000	0.0000
5	Gibson Acoustic Guitar	Instruments	2500.0000	998.0000	5000.0000
6	Java script	Books	3.9900	99.0000	3.9900

User wants to buy 100000 "The DaVinci code" book.

```
Trongs-MacBook-Pro:Bamazon dotrong$ node bamazonCustomer.js
Available item in our Store
----------------------------------------------------------
Product_ID |            Product_Name |            Price
1          |       Harry Porter |    12.5

2          |       The Davinci Code |       10.29

3          |       MacBook Pro 2015 |       1099

4          |       Seiko Watch |    59.99

5          |       Gibson Acoustic Guitar |         2500

6          |       Java script |    3.99

? ? What is the id of product you want to buy? 6
? ? How many units of product you want to buy? 1
1items are sold!
Trongs-MacBook-Pro:Bamazon dotrong$ node bamazonCustomer.js
Available item in our Store
----------------------------------------------------------
Product_ID |            Product_Name |            Price
1          |       Harry Porter |    12.5

2          |       The Davinci Code |       10.29

3          |       MacBook Pro 2015 |       1099

4          |       Seiko Watch |    59.99

5          |       Gibson Acoustic Guitar |         2500

6          |       Java script |    3.99

? ? What is the id of product you want to buy? 2
? ? How many units of product you want to buy? 100000
Sorry we only have 10001. Please comeback later
Trongs-MacBook-Pro:Bamazon dotrong$
```

Challenge 2

- View Products

```
Trongs-MacBook-Pro:Bamazon dotrong$ node bamazonManager.js
? Please select following options View Products for Sale

Item in our Store
----------------------------------------------------
Product_ID |            Product_Name |        Price |                Stock_Quantity
1          |       Harry Porter |  12.5    |      122

2          |       The Davinci Code |      10.29   |      10001

3          |       MacBook Pro 2015 |      1099    |      100

4          |       Seiko Watch |   59.99    |      1000

5          |       Gibson Acoustic Guitar |       2500      |      998

6          |       Java script |   3.99     |      99

? Please select following options (Use arrow keys)
❯ View Products for Sale
  View Low Inventory
  Add to Inventory
  Add New Product
  Exit application
```

- View Low Inventory

```
? Please select following options View Low Inventory

Item in our Store
----------------------------------------------------
Product_ID |            Product_Name |        Price |                Stock_Quantity
? Please select following options (Use arrow keys)
❯ View Products for Sale
  View Low Inventory
  Add to Inventory
  Add New Product
  Exit application
```

- Add To Inventory: add 1 items "Gibson Acoustic Guitar"

Current Stock Quantity in database

```
? Please select following options View Products for Sale

Item in our Store
────────────────────────────────────────────────────
Product_ID |             Product_Name |      Price |                    Stock_Quantity
1          |      Harry Porter |  12.5      |      12278

2          |      The Davinci Code |      10.29    |      10001

3          |      MacBook Pro 2015 |      1099     |      100

4          |      Seiko Watch |   59.99    |      1000

5          |      Gibson Acoustic Guitar |         2500     |      9982

6          |      Java script |   3.99     |      99

? Please select following options Exit application
Trongs—MacBook—Pro:Bamazon dotrong$ node bamazonManager.js
? Please select following options Add to Inventory
? ? Which product id you would like to add more items ? 5
? ?How many items you would like to add ? 1
1 added successfully to inventory
```

After 1 items id #5 "Gibson Guitar" added, stock increased from 9982 to 9983

```
? Please select following options View Products for Sale

Item in our Store
────────────────────────────────────────────────────
Product_ID |             Product_Name |      Price |                    Stock_Quantity
1          |      Harry Porter |  12.5      |      12278

2          |      The Davinci Code |      10.29    |      10001

3          |      MacBook Pro 2015 |      1099     |      100

4          |      Seiko Watch |   59.99    |      1000

5          |      Gibson Acoustic Guitar |         2500     |      9983

6          |      Java script |   3.99     |      99
```

- Add new Product: add Samsung TV

```
? Please select following options Add New Product
? ? The name of product you would like to add ? Samsung TV
? ? The name of department of this product ? Electronics
? ? Product price ? 550
? ? How many items you would like to add for this new product ? 1000
Item added successfully to inventory

? Please select following options View Products for Sale

Item in our Store
--------------------------------------------------------
Product_ID |            Product_Name |          Price |                  Stock_Quantity
1          |       Harry Porter |   12.5      |     12278

2          |       The Davinci Code |     10.29   |     10001

3          |       MacBook Pro 2015 |     1099    |     100

4          |       Seiko Watch |    59.99   |     1000

5          |       Gibson Acoustic Guitar |        2500     |     9983

6          |       Java script |    3.99    |     99

7          |       Samsung TV |    550     |     1000
? Please select following options (Use arrow keys)
❯ View Products for Sale
  View Low Inventory
  Add to Inventory
  Add New Product
  Exit application
```

Challenge 3

- View Product Sales by Department

```
Trongs-MacBook-Pro:Bamazon dotrong$ node bamazonSupervisor.js
? Please select following options Product Sales by Department

Sales by Department in our Store

----------------------------------------------------
Department_ID | Department_Name | Over_Head_Costs | Total_Sales | Total_Profit
1          |       Books |      1200      |     37.07    |     -1162.93

2          |       Accessories |   1200      |     0       |     -1200

3          |       Electronics |   55000     |     0       |     -55000

4          |       Instruments |   30000     |     7500    |     -22500

5          |       New_Dept |     8888      |     0       |     -8888

? Please select following options (Use arrow keys)
❯ Product Sales by Department
  Create New Department
  Exit application
```

User buys 3 Samsung TV: total sales will be 3x550 = 1,650. Total Sales in Department table for Electronics increased from 0 to 1,650, and total profit increased from -55,000 to -53,350

```
●●●                    Bamazon — -bash — 93×20
---------------------------------------------
Product_ID |          Product_Name |          Price
1          |      Harry Porter |  12.5

2          |      The Davinci Code |    10.29

3          |      MacBook Pro 2015 |    1099

4          |      Seiko Watch |   59.99

5          |      Gibson Acoustic Guitar |      2500

6          |      Java script |   3.99

7          |      Samsung TV |   550

[? ? What is the id of product you want to buy? 7
[? ? How many units of product you want to buy? 3
3items are sold!
dhcp-v111-122:Bamazon dotrong$ ▮
```

```
Trongs-MacBook-Pro:Bamazon dotrong$ node bamazonSupervisor.js
? Please select following options Product Sales by Department

Sales by Department in our Store

--------------------------------------------------
Department_ID | Department_Name | Over_Head_Costs | Total_Sales | Total_Profit
1          |    Books |       1200      |    37.07    |     -1162.93

2          |    Accessories |  1200      |    0        |     -1200

3          |    Electronics |  55000     |    1650     |     -53350

4          |    Instruments |  30000     |    7500     |     -22500

5          |    New_Dept |     8888      |    0        |     -8888

? Please select following options (Use arrow keys)
> Product Sales by Department
  Create New Department
  Exit application
```

- Create new department: add Clothing Department

```
2          |      Accessories |    1200      |      0       |        -1200
Trongs-MacBook-Pro:Bamazon dotrong$ node bamazonSupervisor.js
? Please select following options Create New Department
? ? The name of department you would like to add ? Clothing
? ? Over head costs of this department ? 100000
Department added successfully to inventory

? Please select following options Product Sales by Department

Sales by Department in our Store

_____
Department_ID | Department_Name | Over_Head_Costs | Total_Sales | Total_Profit
1         |      Books |         1200      |      37.07    |      -1162.93

2         |      Accessories |    1200      |      0        |      -1200

3         |      Electronics |    55000     |      3848     |      -51152

4         |      Instruments |    30000     |      7500     |      -22500

5         |      New_Dept |       8888      |      0        |      -8888

6         |      Clothing |       100000    |      0        |      -100000

? Please select following options (Use arrow keys)
> Product Sales by Department
  Create New Department
  Exit application
```