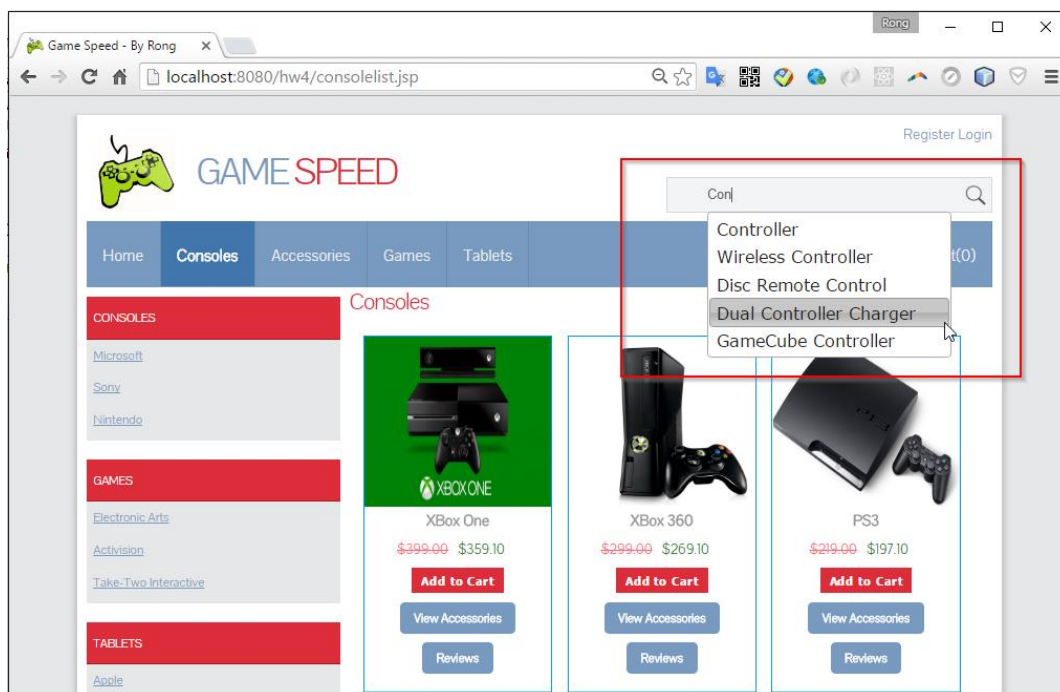
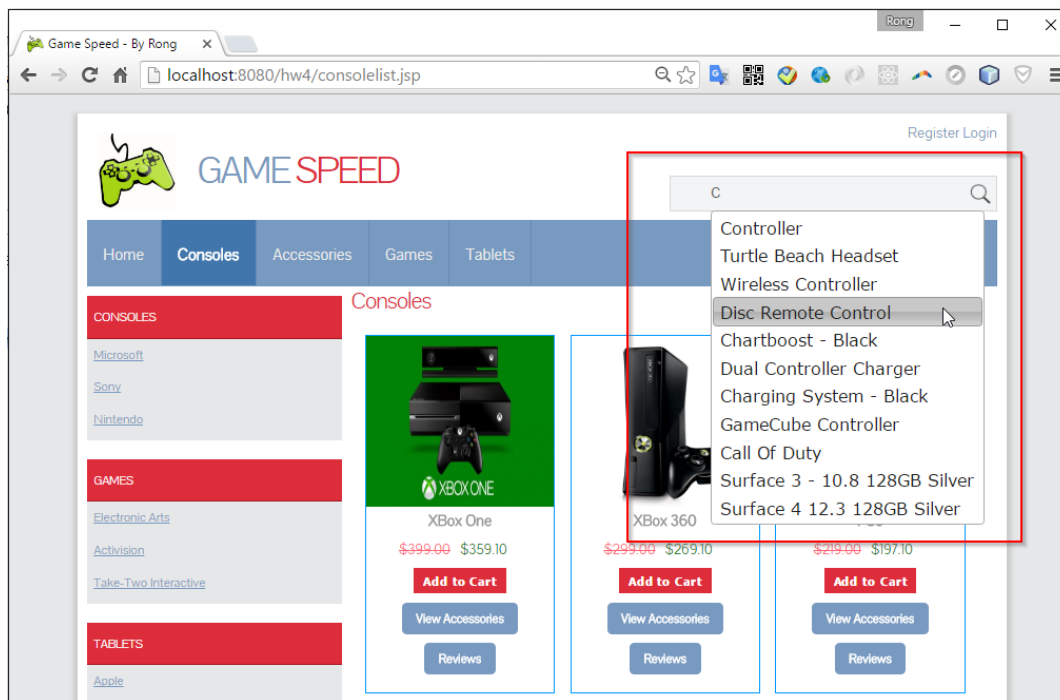


Assignment 4

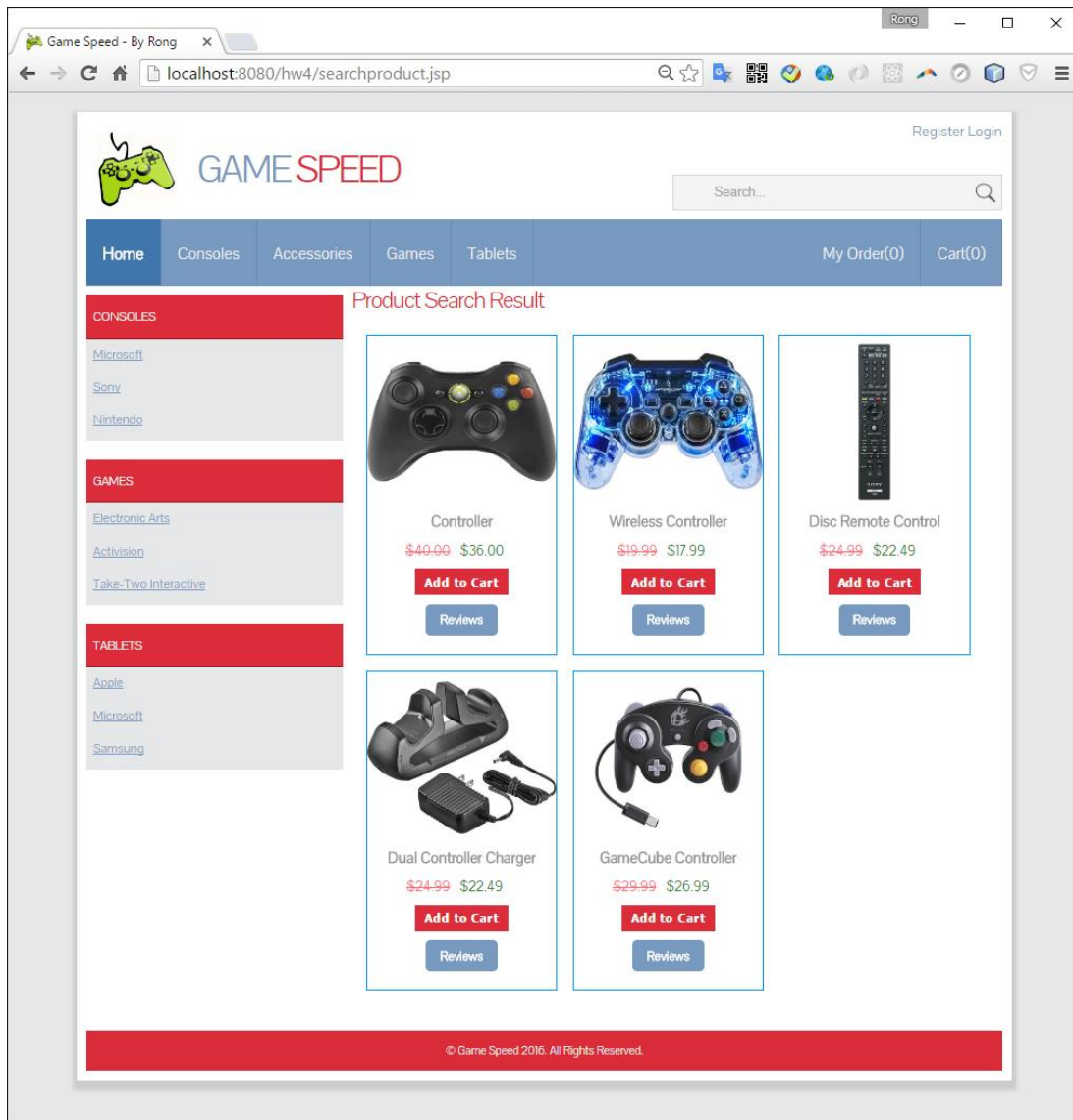
Rong Zhuang

1. Search Auto-Completion

You can search any product, including Console, Accessory, Game and Tablet.



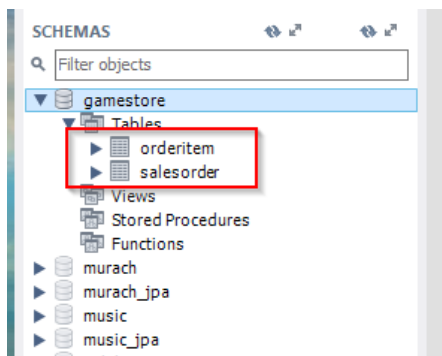
Search Result.



2. Use MySQL to persist Orders

2.1 Tables

SalesOrder and OrderItem



2.2 Create Order

2.2.1 Check the current status

Currently, there are 6 orders already exist.

Query 1 x SQL File 3*

```
select * from gamestore.salesorder;
```

Result Grid

	OrderId	UserName	Address	CreditCard	ConfirmationNumber	DeliveryDate
1	1	johnny	1st Jackson Ave,Chicago,IL	3101122033287498	johnny95297498	2016-06-08 00:00:00
2	2	johnny	1st Jackson Ave,Chicago,IL	3101122033287498	johnny09597498	2016-06-08 00:00:00
	4	johnny	2241 S Archer Ave, Apt 4	3101122033287498	johnny65167498	2016-06-08 00:00:00
	5	customer	sdfsadfsadfsadf	2342345345345341	customer15315341	2016-06-08 00:00:00
	6	customer	1st Jackson Ave,Chicago,IL	3101122033287498	customer55157498	2016-06-08 00:00:00
	7	salesman	3dfsd	1234567890123456	salesman35333456	2016-06-08 00:00:00
*	NULL	NULL	NULL	NULL	NULL	NULL

2.2.2 Place Order

Add three items to cart.

Game Speed - By Rong

localhost:8080/hw4/mycart.jsp

Hello, Johnny Logout

GAME SPEED

Search...

Home Consoles Accessories Games Tablets My Order(3) Cart(3)

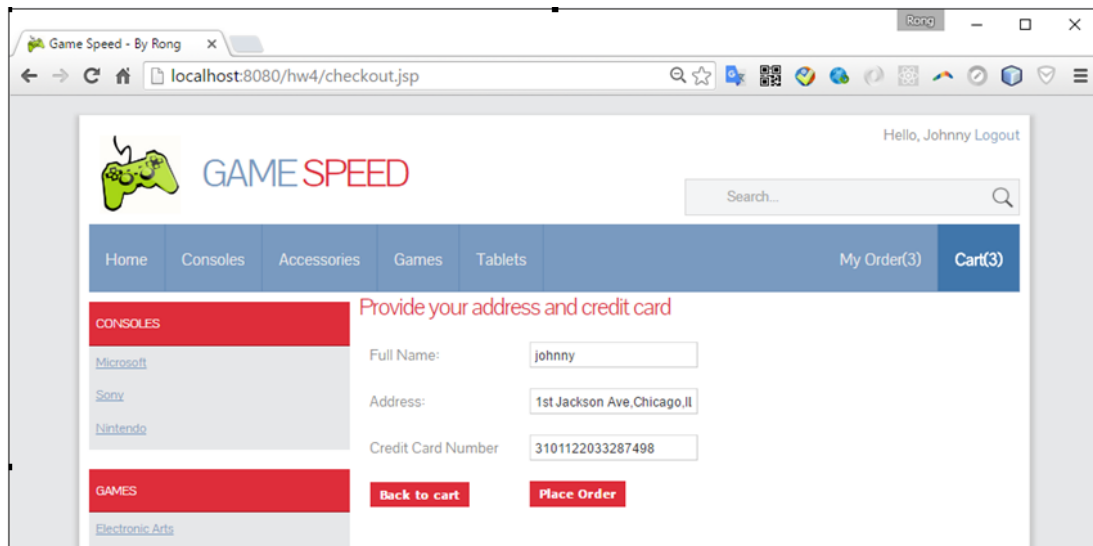
My Cart

No.	Name	Price	Quantity	SubTotal	Management
1	XBox One	\$359.10	1	\$359.10	Update Delete
2	Turtle Beach Headset	\$45.00	2	\$90.00	Update Delete
3	FIFA 2016	\$53.99	1	\$53.99	Update Delete
Total				\$503.09	

[Check Out](#)

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Checkout



Game Speed - By Rong

localhost:8080/hw4/checkout.jsp

Hello, Johnny Logout

Search...

Home Consoles Accessories Games Tablets My Order(3) Cart(3)

CONSOLES

[Microsoft](#)

[Sony](#)

[Nintendo](#)

GAMES

[Electronic Arts](#)

Provide your address and credit card

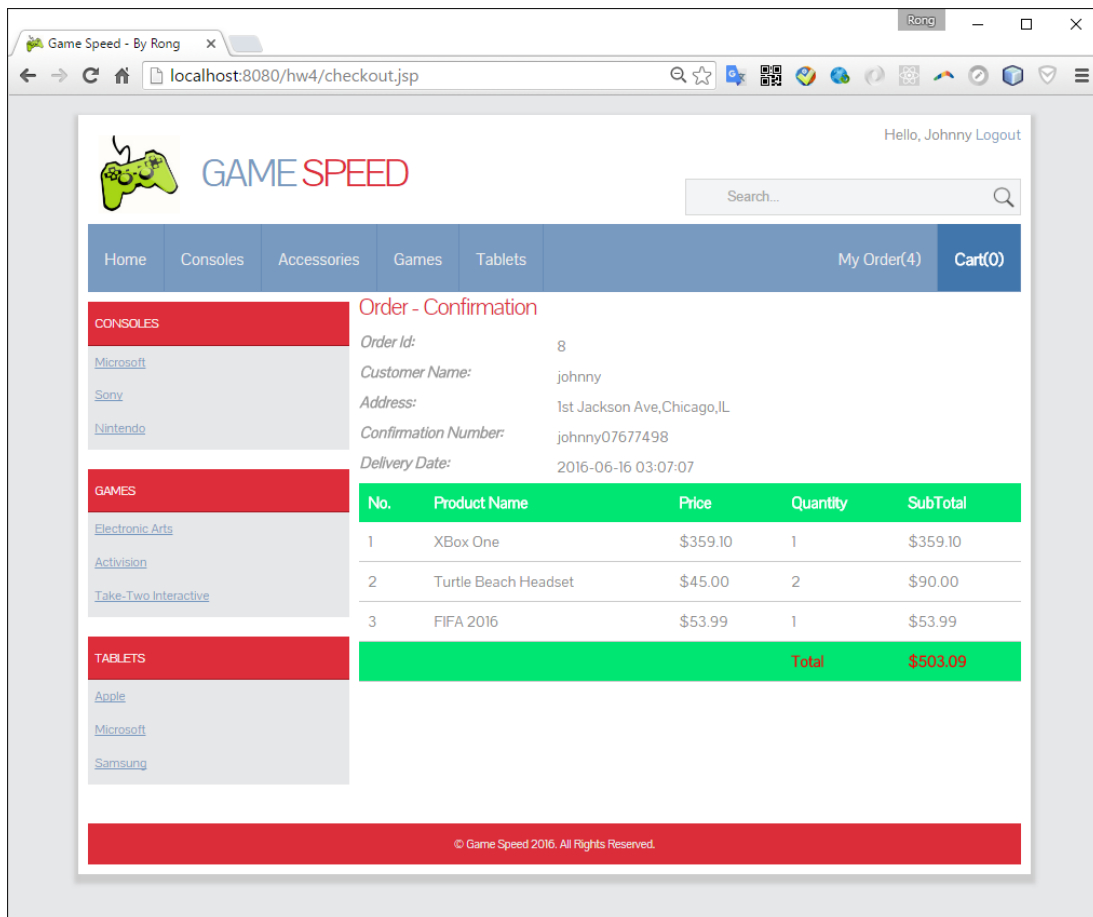
Full Name:

Address:

Credit Card Number:

[Back to cart](#) [Place Order](#)

New order created.



Game Speed - By Rong

localhost:8080/hw4/checkout.jsp

Hello, Johnny Logout

Search...

Home Consoles Accessories Games Tablets My Order(4) Cart(0)

CONSOLES

[Microsoft](#)

[Sony](#)

[Nintendo](#)

GAMES

[Electronic Arts](#)

[Activision](#)

[Take-Two Interactive](#)

TABLETS

[Apple](#)

[Microsoft](#)

[Samsung](#)

Order - Confirmation

Order Id: 8

Customer Name: johnny

Address: 1st Jackson Ave, Chicago, IL

Confirmation Number: johnny07677498

Delivery Date: 2016-06-16 03:07:07

No.	Product Name	Price	Quantity	SubTotal
1	XBox One	\$359.10	1	\$359.10
2	Turtle Beach Headset	\$45.00	2	\$90.00
3	FIFA 2016	\$53.99	1	\$53.99
Total				\$503.09

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2.2.3 Check in MySql Database

One more entry is inserted into SalesOrder table.

Query 1 x SQL File 3*

Limit to 1000 rows

```
1 • select * from gamestore.salesorder;
2 •
```

Result Grid

	OrderId	UserName	Address	CreditCard	ConfirmationNumber	DeliveryDate
▶	1	johnny	1st Jackson Ave,Chicago,IL	3101122033287498	johnny95297498	2016-06-08 00:00:00
	2	johnny	1st Jackson Ave,Chicago,IL	3101122033287498	johnny09597498	2016-06-08 00:00:00
	4	johnny	2241 S Archer Ave, Apt 4	3101122033287498	johnny65167498	2016-06-08 00:00:00
	5	customer	sdfsadsfsadf	2342345345345341	customer15315341	2016-06-08 00:00:00
	6	customer	1st Jackson Ave,Chicago,IL	3101122033287498	customer55157498	2016-06-08 00:00:00
	7	salesman	3dfsd	1234567890123456	salesman35333456	2016-06-08 00:00:00
	8	johnny	1st Jackson Ave,Chicago,IL	3101122033287498	johnny07677498	2016-06-16 00:00:00
*	NULL	NULL	NULL	NULL	NULL	NULL

Check the orderitem table.

There are three new entries with the appropriate quantity are created.

Query 1 x SQL File 3*

Limit to 1000 rows

```
1 • select * from gamestore.orderitem
2 • where orderid = 8
```

Result Grid

	OrderItemId	OrderId	ProductId	ProductName	ProductType	Price	Image	Maker	Discount	Quantity
▶	140	8	xboxone	XBox One	1	399.00	consoles/xbox1.jpg	Microsoft	10	1
	141	8	xboxone_sh	Turtle Beach Headset	2	50.00	accessories/Turtle Beach Headset.jpg	Microsoft	10	2
	142	8	ea_fifa	FIFA 2016	3	59.99	games/ea_fifa.jpg	electronicarts	10	1
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

2.3 Update Order

2.3.1 Check the current status

We will update the order just created which has the order id = 8.

Query 1 x SQL File 3*

Limit to 1000 rows

```
1 select * from gamestore.salesorder where orderid = 8
```

Result Grid

	OrderId	UserName	Address	CreditCard	ConfirmationNumber	DeliveryDate
▶	8	johnny	1st Jackson Ave,Chicago,IL	3101122033287498	johnny07677498	2016-06-16 00:00:00
*	NULL	NULL	NULL	NULL	NULL	NULL

2.3.2 Update Order

Login as 'Salesman', find the order in "All Orders", click 'Edit' button.

Game Speed - By Rong x

localhost:8080/hw4/admin_orderlist.jsp

Hello, Salesman Logout

Search...

Home Consoles Accessories Games Tablets All Order(7) User(4) My Order(1) Cart(0)

CONSOLES

[Microsoft](#)

[Sony](#)

[Nintendo](#)

GAMES

[Electronic Arts](#)

[Activision](#)

[Take-Two Interactive](#)

TABLETS

[Apple](#)

[Microsoft](#)

[Samsung](#)

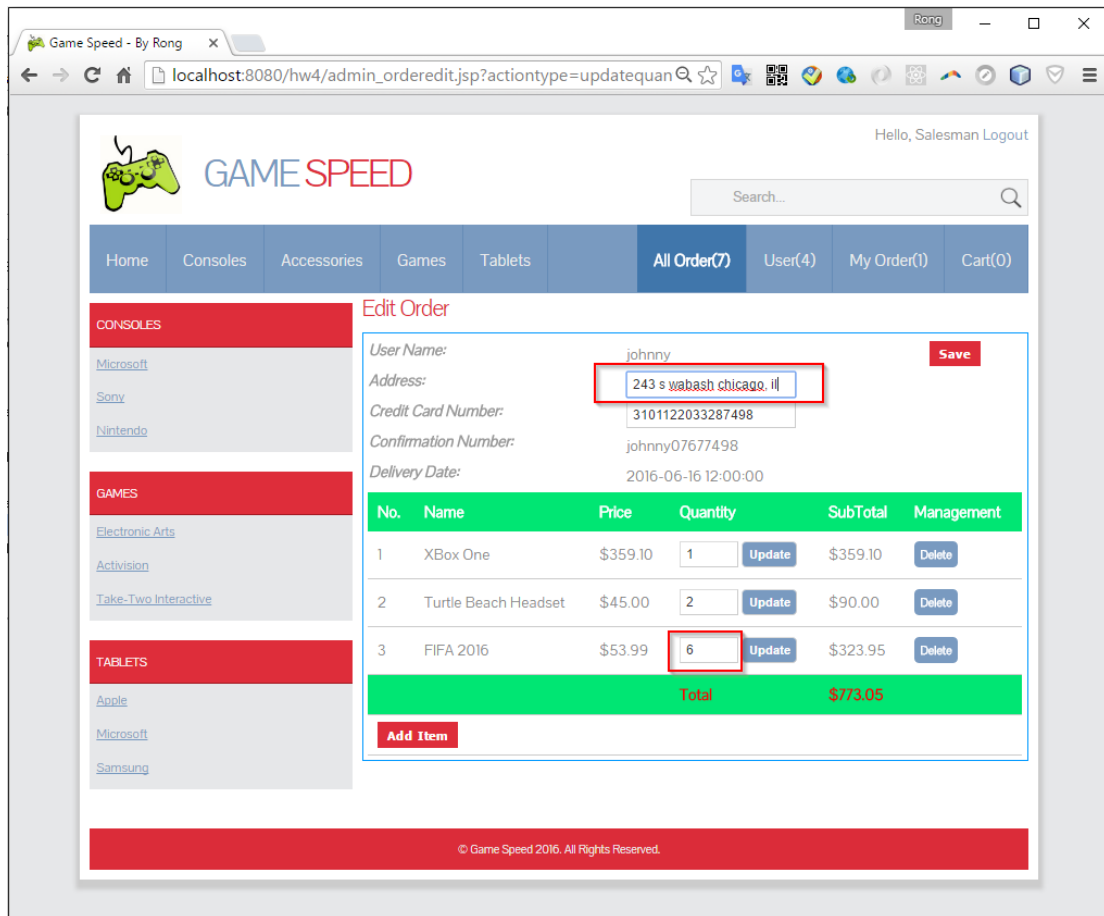
All Orders

Create New Order

Order Id	Customer Name	Delivery Date	Management
1	johnny	2016-06-08 12:00:00	Edit Delete
2	johnny	2016-06-08 12:00:00	Edit Delete
4	johnny	2016-06-08 12:00:00	Edit Delete
5	customer	2016-06-08 12:00:00	Edit Delete
6	customer	2016-06-08 12:00:00	Edit Delete
7	salesman	2016-06-08 12:00:00	Edit Delete
8	johnny	2016-06-16 12:00:00	Edit Delete

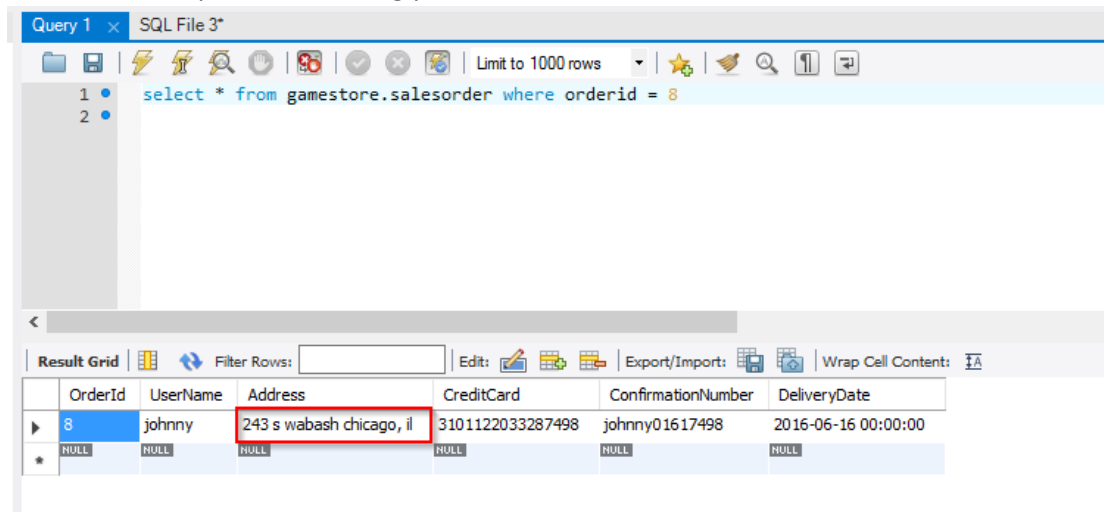
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Update address to '243 s wabash chicago,il' and change the quantity of 'FIFA 2016' to 6, click save.



2.3.3 Check in MySql Database

The address is updated accordingly.



Check the orderitem table.

The quantity for item 'FIFA 2016' is updated to 6 correctly.

Query 1 SQL File 3*

```

1 select * from gamestore.orderitem
2 where orderid = 8

```

Result Grid

OrderItemId	OrderId	ProductId	ProductName	ProductType	Price	Image	Maker	Discount	Quantity
143	8	xboxone	XBox One	1	399.00	consoles/xbox1.jpg	Microsoft	10	1
144	8	xboxone_sh	Turtle Beach Headset	2	50.00	accessories/Turtle Beach Headset.jpg	Microsoft	10	2
145	8	ea_fifa	FIFA 2016	3	59.99	games/ea_fifa.jpg	electronicarts	10	6
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

2.4 Delete Order

2.4.1 Delete Order

Login as 'Salesman', find the order in "All Orders", click 'Delete' button.

Game Speed - By Rong

localhost:8080/hw4/admin_orderlist.jsp

Hello, Salesman Logout

Search...

Home Consoles Accessories Games Tablets All Order(7) User(4) My Order(1) Cart(0)

CONSOLES

Microsoft

Sony

Nintendo

GAMES

Electronic Arts

Activision

Take-Two Interactive

TABLETS

Apple

Microsoft

Samsung

Create New Order

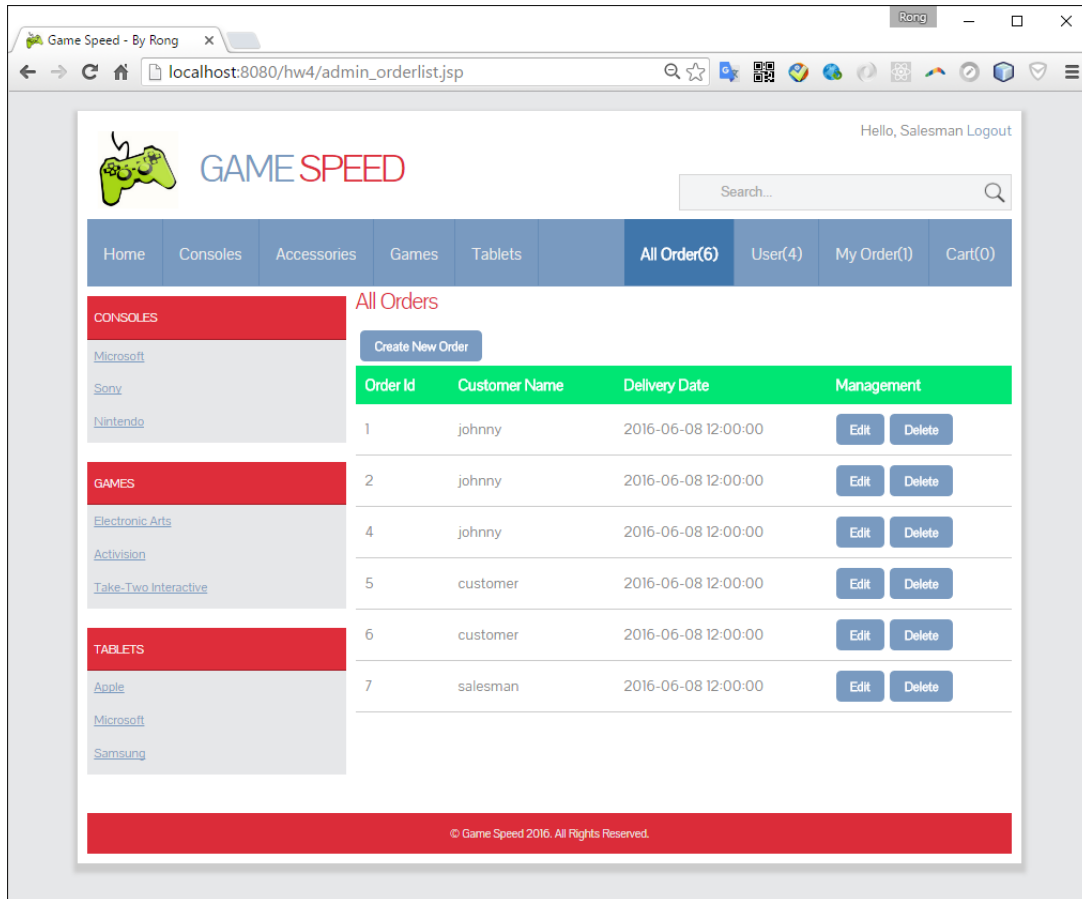
All Orders

Order Id	Customer Name	Delivery Date	Management
1	johnny	2016-06-08 12:00:00	Edit Delete
2	johnny	2016-06-08 12:00:00	Edit Delete
4	johnny	2016-06-08 12:00:00	Edit Delete
5	customer	2016-06-08 12:00:00	Edit Delete
6	customer	2016-06-08 12:00:00	Edit Delete
7	salesman	2016-06-08 12:00:00	Edit Delete
8	johnny	2016-06-16 12:00:00	Edit Delete

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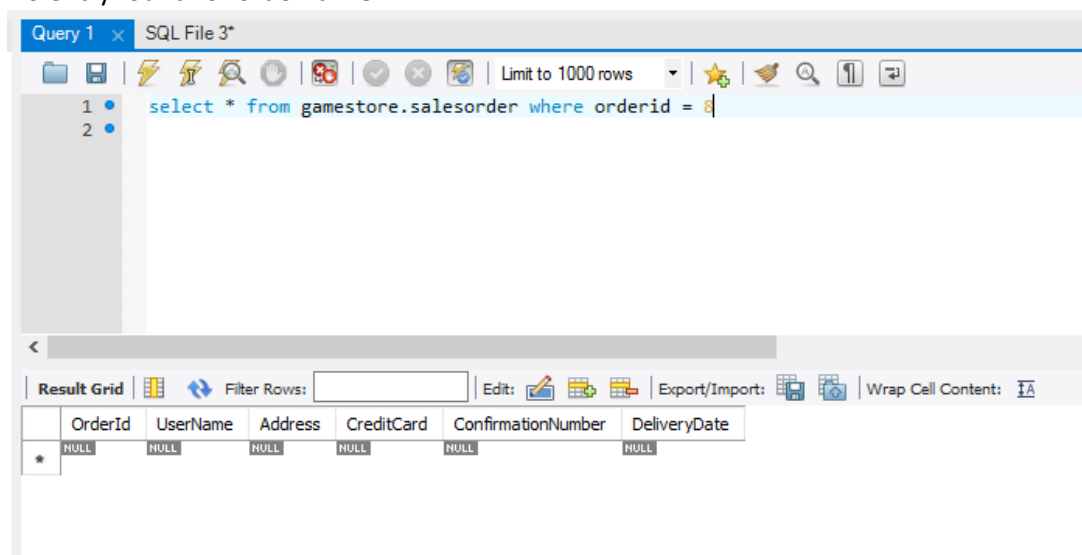
localhost:8080/hw4/admin_orderdel.jsp?orderid=8

The order is removed from the list.

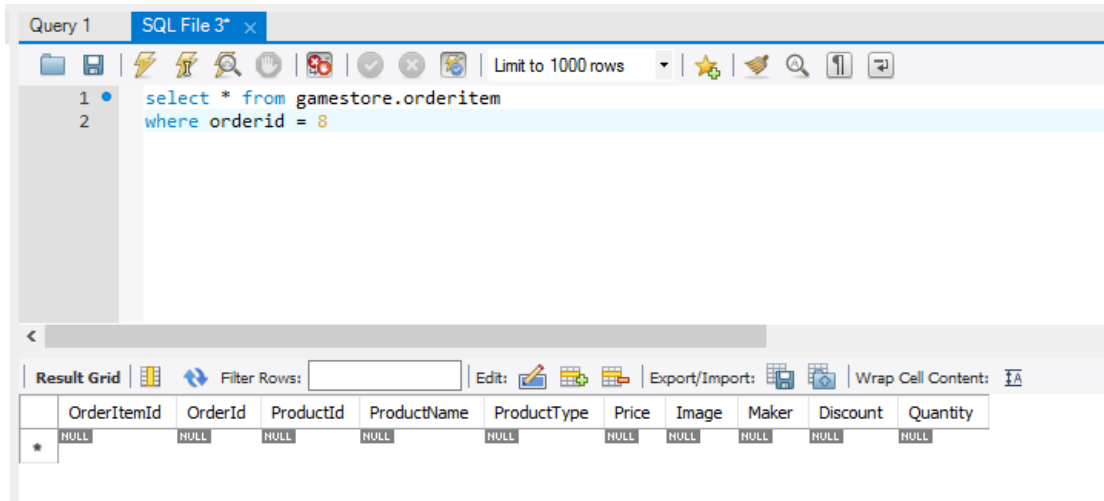


2.4.2 Check in MySql Database

No entry found for order id = 8.



Check the orderitem table.
And no entry found for order id = 8, either.



3. Dependency

3.1 gson-2.3.1.jar

This library is used to convert json format data. It is used when implementing the auto complete function for search.

- 1) Put it into 'lib' folder of apache server. For example, " C:\apache-tomcat-8.5.0\lib".
- 2) Add "C:\apache-tomcat-8.5.0\lib\gson-2.3.1.jar" to environment variable 'CLASSPATH'.

3.2 SQL scripts for create

```

/*****
* Create the database named gamestore, its tables
*****/

DROP DATABASE IF EXISTS gamestore;

CREATE DATABASE gamestore;

USE gamestore;

CREATE TABLE SalesOrder (
  OrderId INT NOT NULL AUTO_INCREMENT,
  UserName VARCHAR(50),
  Address VARCHAR(50),
  CreditCard VARCHAR(50),
  ConfirmationNumber VARCHAR(50),
  DeliveryDate DATETIME,

  PRIMARY KEY(OrderID)
);

CREATE TABLE OrderItem (
  OrderItemId INT NOT NULL AUTO_INCREMENT,
  OrderId INT,

```

```
ProductId VARCHAR(50),  
ProductName VARCHAR(50),  
ProductType INT,  
Price Double(10,2),  
Image VARCHAR(50),  
Maker VARCHAR(50),  
Discount INT,  
Quantity INT,  
  
PRIMARY KEY(OrderItemID)  
);
```