BOOKSTORE DATABASE

TABLES

Tables_in_bookstore
Categories
Customers
OrderDetails
Orders
Products

Notes:
- Field is the name of the DB field
- If Type is varchar, value must be in quotes
- If Null says “NO”, that field must have a value
- If “auto_increment”, value is assigned for you

Customers

Field	Type	Null	Key	Default	Extra
CustomerID	int(11)	NO	PRI	NULL	auto_increment
Email	varchar(50)	NO	UNI	NULL	
Passwd	varchar(15)	NO		NULL	
FirstName	varchar(20)	NO		NULL	
LastName	varchar(25)	NO		NULL	
Address1	varchar(50)	NO		NULL	
Address2	varchar(50)	YES		NULL	
ZipCode	int(11)	NO		0	
State	varchar(2)	NO		NULL	
PhoneNumber	varchar(15)	YES		NULL	
City	varchar(50)	NO		NULL	

Categories

Field	Type	Null	Key	Default	Extra
CategoryID	int(11)	NO	PRI	NULL	auto_increment
CategoryName	varchar(50)	NO	UNI	NULL	

Products

Field	Type	Null	Key	Default	Extra
ProductID	varchar(10)	NO	PRI	NULL	
Title	varchar(50)	NO		NULL	
Author1	varchar(255)	YES		NULL	
Author2	varchar(50)	YES		NULL	
Author3	varchar(50)	YES		NULL	
Quantity	int(11)	YES		0	
Price	decimal(19,4)	NO		0.0000	
CategoryID	int(11)	YES		0	

OrderDetails

Field	Type	Null	Key	Default	Extra
OrderID	int(11)	NO	PRI	0	
ProductID	varchar(10)	NO	PRI	NULL	
Quantity	int(11)	NO		0	
LineTotal	decimal(19,4)	YES		0.0000	

Orders

Field	Type	Null	Key	Default	Extra
OrderID	int(11)	NO	PRI	NULL	auto_increment
CustomerID	int(11)	NO		0	
ShippingCost	double	YES		0	
Tax	double	YES		0	
Total	double	YES		0	
OrderDate	datetime	YES		NULL	

SQL Code Necessary for Project

Code to connect to the mySQL database

```
$connection;

// connecto to the bookstore DB
function db_connect()
{
   $DB_NAME = "bookstore";
   $DB_HOST = "localhost";
   $DB_USER = "yourKUuserName";
   $DB_PASS = "yourDBpassword";

   global $connection;

   $connection = mysql_connect($DB_HOST, $DB_USER, $DB_PASS)
      or die("Cannot connect to $DB_HOST as $DB_USER:" . mysql_error());

   mysql_select_db($DB_NAME) or die ("Cannot open $DB_NAME:" . mysql_error());

   return $connection;
}
```

Code to close the connection to the mySQL database

```
// close connection to bookstore DB
function db_close()
{
   global $connection;
   mysql_close($connection);
}
```

SQL query to get a specific customer (user account) by E-mail Address only

```
SELECT Email FROM Customers
WHERE Email = 'emailAddressEnteredByUser'
```

SQL query to get customer (user account) info based on Email address and Password

```
SELECT CustomerID, Email, Passwd, FirstName FROM Customers
WHERE Email = 'customersEmailAddress'
AND Passwd = 'customersPassword'
```

SQL query to add a new customer (user account)

```
INSERT INTO Customers
(Email, Passwd, FirstName, LastName,
Address1, Address2, City, State, ZipCode, PhoneNumber)
VALUES ('emailAddress', 'password', 'firstName', 'lastName',
      'streetAddress', 'streetAddress2', 'city', 'state',
      zipCode, 'phoneNumber')
```

SQL query to get all the categories

```
SELECT CategoryID, CategoryName FROM Categories
```

SQL query to get product information for a specific category

```
SELECT * FROM Products
WHERE CategoryID = categoryID
```

SQL query to get product information for a product with a certain product ID

```
SELECT * FROM Products
WHERE ProductID = 'productID'
```

SQL query to get product information for a product with a certain keyword in Title (NOTE: the % around the *keyword* is required!)

```
SELECT * FROM Products
WHERE Title LIKE '%keyword%'
```

SQL query to get a specific Title

```
SELECT Title FROM Products
WHERE ProductID = 'productID'
```

SQL query to create a preliminary order (to get order ID)

```
INSERT INTO Orders (CustomerID) VALUES (customerID)
```

SQL query to get newly created order to get order ID

```
SELECT OrderID FROM Orders
WHERE CustomerID = customerID
AND OrderDate IS NULL
```

SQL query to create the order with all details

```
UPDATE Orders SET
ShippingCost=shippingAmount,
Tax=taxAmount,
Total=grandTotalForOrder,
OrderDate='todaysDate'
WHERE OrderID=orderID
   AND CustomerID=customerID
```

SQL query to add a product to an order

```
INSERT INTO OrderDetails
(OrderID, ProductID, Quantity, LineTotal)
VALUES (orderID, 'productID', quantity, 'lineTotal')
```

SQL query to get all orders for a specific customer

```
SELECT OrderID, OrderDate, ShippingCost, Tax, Total
FROM Orders
WHERE CustomerID = customerID
```

SQL query to get a specific order

```
SELECT OrderID, OrderDate, ShippingCost, Tax, Total
FROM Orders
WHERE orderID = orderID
```

SQL query to get all products on a specific order

```
SELECT * FROM OrderDetails
WHERE OrderID = orderID
```