CPSC 2221 - Database Systems Group Project - Implementation of a Relational Database

Project Title:	Online Sport Shoe Store Database	
Project Milestone:	4	

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By keying our names and student IDs in the above table, we certify that the work submitted with this cover page was performed solely by those whose names and student IDs are included above.

Also, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Langara College.

Project SetUp Guide

Setup guide (We'll be assuming the marker has PHPMyAdmin + Xampp Setup already): Unzip Files:

• Unzip the files that our group has uploaded.

Database Setup:

- Run the "Create Table Script" to create the necessary tables in the database.
- Run the "Insert Table Script" to populate the tables with initial data.

Web Application Setup:

- Drag and drop your HTML and PHP files to the htdocs directory of the XAMPP folder.
- Change the values of connect.php \$dbpass, \$dbuser, and \$db to your local values. (refer to image)

Start XAMPP:

• Ensure that XAMPP is installed and running on your local machine.

Access Localhost:

 Open a web browser and go to http://localhost to access the locally hosted web application.

Project Accomplishment

We built an online shoe store database that stores information about product, stock, order, shopping cart, customer, staff, and shipping.

Users of this database will be able to enjoy the following features:

1. Insert Feature:

Insert a product to 2 tables insert product stock to 3 tables insert a customer/a staff insert a shipping company

2. Display Feature:

Display all product;

Display all orders;

Display customers who made all purchases

3. Search Feature:

Search for a ProductID based on product name
Search for StockID and ProductID with price greater than 150
search for orders bought by a certain customer
Search for ProductID with a certain size
search for shipping time based on order_id

4. Update Feature

Update a stock price Update stock count Update customer info Update staff info

5. Delete Feature Done

Delete a product by specifying productID Delete an order, customer, staff

6. Calculation Feature

Show count of total product sold

Show the average price of total product

Show the total number of shoes bought by each customer

Scripts/Queries used in all php files

Queries for inserting feature

Insert a product to 2 tables

\$query1 = "INSERT INTO product VALUES ('\$Product_ID', '\$Product_Name')";
\$query2 = "INSERT INTO product_sub VALUES ('\$Product_Name', '\$Description',
'\$Category')";

insert product stock to 3 tables

\$query1 = "INSERT INTO stock_count
VALUES('\$Stock_ID','\$Stock_Count','\$Product_ID')";
\$query2 = "INSERT INTO stock_color_size
VALUES('\$Stock_ID','\$Pro_Color','\$Pro_Size')";
\$query3 = "INSERT INTO stock_price VALUES('\$Stock_ID', '\$Product_ID', '\$Pro_Price')";

insert a customer/a staff

\$query = "INSERT INTO customer
ES('\$Customer ID','\$First Name','\$Last Name','\$Address','\$Phone Nur

VALUES('\$Customer_ID','\$First_Name','\$Last_Name','\$Address','\$Phone_Number','\$Shipping_Address')";

insert a shipping company

\$query = "INSERT INTO shipping_company
VALUES('\$Company_ID','\$Comp_Name','\$Comp_Address','\$Phone_Number')";

Queries for display feature

Display all product;

SELECT * FROM Product

Display all orders:

SELECT * FROM Pro_Order

Display customers who made certain purchases

SELECT DISTINCT c.Customer_ID, c.First_Name, c.Last_Name FROM Customer c JOIN Pro_Order po ON c.Customer_ID = po.Customer_ID JOIN Order_Items oi ON po.Order_ID = oi.Order_ID

```
WHERE oi. Product ID IN (
                   SELECT Product_ID
                   FROM Product
                   WHERE Product Name = '$PName'
            )
Display customers who made all purchases
      SELECT c.Customer ID, c.First Name, c.Last Name
           FROM Customer c
           WHERE NOT EXISTS (
              SELECT p.Product ID
              FROM Product p
             WHERE NOT EXISTS (
                SELECT oi. Product ID
                FROM Order Items oi
                JOIN Pro Order po ON oi.Order ID = po.Order ID
                WHERE po.Customer ID = c.Customer ID AND oi.Product ID =
      p.Product_ID
                  )
                            Queries for Search feature
Search for a ProductID based on product name
      $query = "SELECT Product ID, Product Name FROM product
      WHERE Product_Name = '$input'";
Search for StockID and ProductID with price greater than 150
      $query = "SELECT Stock_ID, Product_ID, Pro_Price FROM stock_price"
      WHERE Pro Price > $input";
search for orders bought by a certain customer
      $query = "SELECT PO.*, C.First Name FROM pro order PO, customer C
      WHERE PO.Customer ID = C.Customer ID
      AND C.First Name = '$input'";
Search for ProductID with a certain size
      $query = "SELECT SC.Product ID, SCZ.Pro Size FROM stock color size SCZ,
stock_count SC
      WHERE SCZ.Stock ID = SC.Stock ID
      AND SCZ.Pro_Size = $input";
```

search for shipping time based on order id

\$query = "SELECT Estimated_Shipping_Time FROM shipping_order
WHERE Order_ID = \$input";

Queries for update feature

Update a stock price

\$query = "UPDATE Stock_Price SET Stock_Price = \$Stock_Price WHERE
Stock ID = \$Stock ID";

Update stock count

\$query = "UPDATE Stock_Count SET Stock_Count = \$Stock_Count WHERE
Stock ID = \$Stock ID";

Update customer info

\$query = "UPDATE customer SET First_Name = \$First_Name WHERE
Customer ID = \$Customer ID";

\$query1 = "UPDATE customer SET Last_Name = \$Last_Name WHERE
Customer ID = \$Customer ID";

\$query2 = "UPDATE customer SET Address = \$Customer_Address WHERE
Customer ID = \$Customer ID";

\$query3 = "UPDATE customer SET Phone_Number = \$Phone_Number WHERE
Customer ID = \$Customer ID";

\$query4 = "UPDATE customer SET Shipping_Address = \$Shipping_Address
WHERE Customer_ID = \$Customer_ID";

Update staff info

\$query = "UPDATE staff SET First_Name = \$First_Name WHERE Staff_ID =
\$Staff ID";

\$query1 = "UPDATE staff SET Last_Name = \$Last_Name WHERE Staff_ID =
\$Staff ID";

\$query2 = "UPDATE staff SET Address = \$Staff_Address WHERE Staff_ID =
\$Staff_ID";

\$query3 = "UPDATE staff SET Phone_Number = \$Phone_Number WHERE
Staff ID = \$Staff ID";

\$query4 = "UPDATE staff SET Role = \$Role WHERE Staff_ID = \$Staff_ID";

Queries for delete feature

Delete a product by specifying productID

\$query = "DELETE FROM product WHERE Product ID = \$Product ID";

Delete an order

```
$query1 = "DELETE FROM order_items WHERE Order_ID = $Order_ID";
$query2 = "DELETE FROM pro order WHERE Order ID = $Order ID";
```

Delete customer

\$query = "DELETE FROM customer WHERE Customer ID = \$Customer ID";

Delete staff

\$query = "DELETE FROM customer WHERE Staff_ID = \$Staff_ID";

Queries for Calculation feature

Show count of total product sold

```
SELECT po.Order_ID, po.Order_Total_Price, COUNT(oi.Product_ID) AS ItemCount FROM Pro_Order po
LEFT JOIN Order_Items oi ON po.Order_ID = oi.Order_ID
WHERE po.Order_Status = 'delivered'
GROUP BY po.Order_ID, po.Order_Total_Price
```

Show the average price of total product

SELECT AVG(Pro Price) AS AveragePrice FROM Stock Price

Show the total number of shoes bought by each customer

```
SELECT c.Customer_ID, c.First_Name, c.Last_Name, COUNT(oi.Product_ID) AS TotalShoesPurchased FROM Customer c

JOIN Pro_Order po ON c.Customer_ID = po.Customer_ID

JOIN Order_Items oi ON po.Order_ID = oi.Order_ID

GROUP BY c.Customer ID, c.First Name, c.Last Name
```