

Project Deadline-5: DBMS Winter-2024

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Ordering items and Inventory Analysis

1. Get Product Query:

```
$get_product = "select * from products where product_url='\$product_id';"
```

This query is used to select all fields from the `products` table where the `product_url` field matches the `$product_id` variable.

2. Get Product Category Query:

```
$get_p_cat = "select * from product_categories where p_cat_id='\$p_cat_id';"
```

This query is used to select all fields from the `product_categories` table where the `p_cat_id` field matches the `$p_cat_id` variable.

3. Check Product Query:

```
$check_product = "select * from cart where ip_add='\$ip_add' AND p_id='\$p_id';"
```

This query is used to select all fields from the `cart` table where the `ip_add` field matches the `$ip_add` variable and the `p_id` field matches the `$p_id` variable.

4. Get Price Query:

```
$get_price = "select * from products where product_id='\$p_id';"
```

This query is used to select all fields from the `products` table where the `product_id` field matches the `$p_id` variable.

5. Insert into Cart Query:

```
$query = "insert into cart (p_id,ip_add,qty,p_price,size) values  
        ('\${p_id}','\${ip_add}','\${product_qty}',  
        '\${product_price}','\${product_size}')";
```

This query is used to insert a new row into the `cart` table with the specified values.

6. Get Customer Query:

```
$get_customer = "select * from customers where customer_email='\$customer_session'";
```

This query is used to select all fields from the `customers` table where the `customer_email` field matches the `$customer_session` variable.

7. Select Wishlist Query:

```
$select_wishlist = "select * from wishlist where customer_id='\$customer_id'
                    AND product_id='\$pro_id'";
```

This query is used to select all fields from the `wishlist` table where the `customer_id` field matches the `$customer_id` variable and the `product_id` field matches the `$pro_id` variable.

8. Insert into Wishlist Query:

```
$insert_wishlist = "insert into wishlist (customer_id,product_id)
                    values ('\${customer_id}', '\${pro_id}')";
```

This query is used to insert a new row into the `wishlist` table with the specified values.

9. Get Products Query:

```
$get_products = "select * from products order by rand() LIMIT 0,3";
```

This query is used to select all fields from the `products` table in a random order, limiting the results to the first 3.

10. Get Email for Login Query:

```
$get_email = "select * from customers where customer_email='\$c_email'";
```

This query is used to select all fields from the `customers` table where the `customer_email` field matches the `$c_email` variable. It's used to check if the email is already registered.

11. Register Query:

```
$insert_customer = "insert into customers
                    (customer_name,customer_email,customer_pass,customer_country,
                     customer_city,customer_contact,customer_address,
                     customer_image,customer_ip,customer_confirm_code) values
                    ('\${c_name}', '\${c_email}', '\${c_pass}', '\${c_country}', '\${c_city}',
                     '\${c_contact}', '\${c_address}', '\${c_image}', '\${c_ip}',
                     '\${customer_confirm_code}')";
```

This query is used to insert a new row into the `customers` table with the specified values. It's used to register a new customer.

12. Select Cart Query:

```
$select_cart = "select * from cart where ip_add='\$ip_add'";
```

This query is used to select all fields from the `cart` table where the `ip_add` field matches the `$ip_add` variable. It's used to fetch all the items in the cart for the current user.

13. Get Products Query:

```
$get_products = "select * from products where product_id='$pro_id'";
```

This query is used to select all fields from the `products` table where the `product_id` field matches the `$pro_id` variable. It's used to fetch the details of a specific product.

14. Get Cart Query:

```
$get_cart = "select * from cart where p_id='$coupon_pro' AND ip_add='$ip_add'";
```

This query is used to select all fields from the `cart` table where the `p_id` field matches the `$coupon_pro` variable, and the `ip_add` field matches the `$ip_add` variable. It's used to check if the product associated with the coupon is in the cart.

15. Update Cart Query:

```
$update_cart = "update cart set p_price='$coupon_price' where p_id='$coupon_pro'
                AND ip_add='$ip_add'";
```

This query is used to update the `p_price` field in the `cart` table where the `p_id` field matches the `$coupon_pro` variable, and the `ip_add` field matches the `$ip_add` variable. It's used to apply the coupon discount to the product in the cart.

16. Delete Product from Cart Query:

```
$delete_product = "delete from cart where p_id='$remove_id'";
```

This query is used to delete a row from the `cart` table where the `p_id` field matches the `$remove_id` variable. It's used to remove a product from the cart.

17. Insert Customer Order Query:

```
$insert_customer_order = "insert into customer_orders (customer_id,due_amount,
invoice_no,qty,size,order_date,order_status) values ('$customer_id','$sub_total',
'$invoice_no','$pro_qty','$pro_size',NOW(),'$status')";
```

This query is used to insert a new row into the `customer_orders` table with the specified values. It's used to create a new order for the customer.

18. Insert Pending Order Query:

```
$insert_pending_order = "insert into pending_orders (customer_id,invoice_no,
product_id,qty,size,order_status) values ('$customer_id','$invoice_no',
'$pro_id','$pro_qty','$pro_size','$status')";
```

This query is used to insert a new row into the `pending_orders` table with the specified values. It's used to add the order to the list of pending orders.

19. Delete Cart Query:

```
$delete_cart = "delete from cart where ip_add='$ip_add'";
```

This query is used to delete all rows from the `cart` table where the `ip_add` field matches the `$ip_add` variable. It's used to clear the cart after the order has been placed.

Customer Analysis

1. Get Product Categories Query:

```
$get_p_categories = "SELECT * FROM product_categories";
```

This query selects all fields from the `product_categories` table. It's used to fetch all the product categories.

2. Get Total Orders Query:

```
$get_total_orders = "SELECT * FROM customer_orders";
```

This query selects all fields from the `customer_orders` table. It's used to fetch all the customer orders.

3. Get Pending Orders Query:

```
$get_pending_orders = "SELECT * FROM customer_orders WHERE order_status='pending'";
```

This query selects all fields from the `customer_orders` table where the `order_status` field is 'pending.' It's used to fetch all the pending customer orders.

4. Get Completed Orders Query:

```
$get_completed_orders = "SELECT * FROM customer_orders WHERE order_status='Complete'";
```

This query selects all fields from the `customer_orders` table where the `order_status` field is 'Complete.' It's used to fetch all the completed customer orders.

5. Get Total Earnings Query:

```
$get_total_earnings = "SELECT SUM(due_amount)
                        as Total FROM customer_orders WHERE order_status = 'Complete'";
```

This query calculates the sum of the `due_amount` field from the `customer_orders` table where the `order_status` field is 'Complete.' It's used to calculate the total earnings from completed orders.

6. Get Coupons Query:

```
$get_coupons = "SELECT * FROM coupons";
```

This query selects all fields from the `coupons` table. It's used to fetch all the coupons.

Triggers

1. Automatically increments coupon usage count in `coupons` table upon usage and insertion into `cart`.

```
DELIMITER //
CREATE TRIGGER update_coupon_used
AFTER INSERT ON cart
FOR EACH ROW
BEGIN
    DECLARE coupon_limit INT;
    DECLARE coupon_used INT;

    SELECT coupon_limit, coupon_used INTO coupon_limit, coupon_used
    FROM coupons
    WHERE coupon_id = NEW.product_id;

    IF coupon_used < coupon_limit THEN
        UPDATE coupons
        SET coupon_used = coupon_used + 1
        WHERE coupon_id = NEW.product_id;
    END IF;
END;
//
DELIMITER ;
```

2. Updates pending order status to Complete upon payment insertion

```
DELIMITER //
CREATE TRIGGER update_order_status_on_payment
AFTER INSERT ON payment
FOR EACH ROW
BEGIN
    UPDATE pending_orders
    SET order_status = 'Complete'
    WHERE invoice_no = NEW.invoice_no;
END;
//
DELIMITER ;
```