

# Date Tutorial

At this stage you should have a 'cart' table.

We are going to change this table to include a new field

- 'co\_date'

We'll assume this is a date by which the product has to be processed by the application.

We will make the date 'insert date' +7 days

In other words that the product in the cart must be processed within 7 days.

Now before proceeding take a note of the existing rows in your cart table and jot down the product\_id and user\_id for each row.

Now delete the contents of the table

```
drop table cart;
```

Bring up **heidi** or **phpmyadmin** and create a new table

'cart' in 'wdtest'

Our 'cart' table will now look like

```
CREATE TABLE cart (  
    id INT(11) UNSIGNED NOT NULL  
    AUTO_INCREMENT,  
    product_id INT(11) NOT NULL,  
    user_id INT(11) NOT NULL,  
    date TIMESTAMP NOT NULL DEFAULT  
    CURRENT_TIMESTAMP,  
    co_date varchar(40) NOT NULL,  
    PRIMARY KEY (id)  
);
```

We will now write a php program to insert new rows to the cart.

We are going to save the co\_date as a string on the table and convert it to a PHP Date object as needed.

The code for the insert once you've created the new cart table is below. We've hard coded the product\_id and user\_id. Remember to change each time for each row you jotted down.

```

1  <?php
2  //
3  $weekstr = date('Y-m-d', strtotime(' + 7 days')); // add 7 days to todays date
4
5  try{
6      $host = '127.0.0.1';
7      $dbname = 'wdtest';
8      $user = 'root';
9      $pass = '';
10     $DBH = new PDO("mysql:host=$host;dbname=$dbname", $user, $pass);
11 } catch (PDOException $e) {echo $e->getMessage();}
12
13 $pid = 5; //add your values here
14 $uid = 9;
15 $codate = $weekstr;
16 $stmt = $DBH->prepare("INSERT into cart
17                        (product_id,user_id,co_date)
18                        Values (:pid,:uid,:codate)");
19 $stmt->bindValue(':pid', $pid);
20 $stmt->bindValue(':uid', $uid);
21 $stmt->bindValue(':codate', $codate);
22 $stmt->execute();
23 //
24 $arr = $stmt->errorInfo();
25 if (isset($arr[2])) { // we have an error
26     echo "<br/> Database Error Code: ".$arr[0];
27     echo "<br/> Driver Error Code: ".$arr[1];
28     echo "<br/> Database Error Message: ".$arr[2];
29     exit();
30 }
31 ?>
32

```

Remember to save under htdocs in some folder.

Run multiple times for each product\_id, user\_id row.

Now we want to list the cart and display the number of due days left by comparing the todays date with the co\_date.

See below e.g. save as listCart.php

```

1  <?php
2  // create the connection
3  try{
4      $host = '127.0.0.1';
5      $dbname = 'wdtest';
6      $user = 'root';
7      $pass = '';
8      $DBH = new PDO("mysql:host=$host;dbname=$dbname",$user,$pass);
9  }catch (PDOException $e) {echo $e->getMessage();}
10 // select the correct table
11 $stmt = $DBH->prepare("SELECT * FROM cart");
12 $stmt->execute();
13 // get the rows and put it in a variable
14 $rows = $stmt->fetchAll(PDO::FETCH_ASSOC);
15 echo "<table>";
16 echo "<tr><th>Pid</th><th>Uid</th><th>Added</th><th>Co-Date</th><th>Due Days</th></tr>";

17 foreach($rows as $row){
18     //
19     $start = new DateTime('today'); //new date object of today's date
20     $startstr = $start->format('Y-m-d'); //convert date to string
21
22     $codate = $row['co_date'];
23     //
24     $codate = new DateTime($codate); //create date object from string
25     //
26     $diff = $codate->diff($start);
27
28     echo "<tr>";
29     echo "<td>";
30     echo $row['product_id'];
31     echo "</td>";
32     echo "<td>";
33     echo $row['user_id'];
34     echo "</td>";
35     echo "<td>";
36     echo $row['date'];
37     echo "</td>";
38     echo "<td>";
39     echo $row['co_date'];
40     echo "</td>";
41     echo "<td>";
42     echo $diff->days;
43     echo "</td>";
44     echo "</tr>";
45 }
46 echo "</table>";
47 ?>

```

What if we want to list products in the cart which are

overdue i.e. duedays are  $\leq 0$

```
1 <?php
2 // create the connection
3 try{
4     $host = '127.0.0.1';
5     $dbname = 'wdtest';
6     $user = 'root';
7     $pass = '';
8     $DBH = new PDO("mysql:host=$host;dbname=$dbname", $user, $pass);
9 }catch (PDOException $e) {echo $e->getMessage();}
10 // select the correct table
11 $stmt = $DBH->prepare("SELECT * FROM cart");
12 $stmt->execute();
13
14 // get the rows and put it in a variable
15 $rows = $stmt->fetchAll(PDO::FETCH_ASSOC);
16 echo "<table>";
17 echo "<tr><th>Pid</th><th>Uid</th><th>Added</th><th>Co-Date</th><th>Due Days</th></tr>";
18 foreach($rows as $row){
19     //
20     $start = new DateTime('today'); //new date object of today's date
21     //
22     $codate = $row['co_date'];
23     //
24     $codate = new DateTime($codate); //create date object from string
25
26     $diff = $codate->diff($start);
27     if ($diff->days <= 0 ) {
28         echo "<tr>";
29         echo "<td>";
30         echo $row['product_id'];
31         echo "</td>";
32         echo "<td>";
33         echo $row['user_id'];
34         echo "</td>";
35         echo "<td>";
36         echo $row['date'];
37         echo "</td>";
38         echo "<td>";
39         echo $row['co_date'];
40         echo "</td>";
41         echo "<td>";
42         echo $diff->days;
43         echo "</td>";
44         echo "</tr>";
45     }
46 }
47 echo "</table>";
48 ?>
```

Say we want to list the product name and description in our cart. We can use the join we saw in lecture 8. We just need to make a few simple changes. Changing the select statement and the output

```
1 <?php
2 // create the connection
3 try{
4     $host = '127.0.0.1';
5     $dbname = 'wdtest';
6     $user = 'root';
7     $pass = '';
8     $DBH = new PDO("mysql:host=$host;dbname=$dbname",$user,$pass);
9 }catch (PDOException $e) {echo $e->getMessage();}
10 // select the correct table
11 $stmt = $DBH->prepare("SELECT * FROM Products A
12 JOIN Cart B ON A.Id = B.product_id");
13 $stmt->execute();
14 // get the rows and put it in a variable
15 $rows = $stmt->fetchAll(PDO::FETCH_ASSOC);
16 echo "<table>";
17 echo "<tr><th>Name</th><th>Description</th><th>Co-Date</th><th>Due Days</th></tr>";
18 foreach($rows as $row){
19     //
20     $start = new DateTime('today'); //new date object of today's date
21     $startstr = $start->format('Y-m-d'); //convert date to string
22
23     $codate = $row['co_date'];
24     //
25     $codate = new DateTime($codate); //create date object from string
```



```

26 //
27 $diff = $codate->diff($start);
28
29 echo "<tr>";
30 echo "<td>";
31 echo $row['product_name'];
32 echo "</td>";
33 echo "<td>";
34 echo $row['product_description'];
35 echo "</td>";
36 echo "<td>";
37 echo $row['co_date'];
38 echo "</td>";
39 echo "<td>";
40 echo $diff->days;
41 echo "</td>";
42 echo "</tr>";
43 }
44 echo "</table>";
45 ?>
46

```

## Extra Challenge

As an exercise create a file that lists the username as well as product information.

Hint use the 3 way join we looked at in lecture 8.

