ណែនាំអោយស្គាល់ MySQL Database
(MySQL Database)

I.   ដូចម្តេចទៅដែលហៅថា MySQL Database?

MySQL Database គឺជាប្រភេទ Database លក្ខណៈជា Open Source ដែលបង្កើត ឡើង ដោយក្រុមហ៊ុន Oracle ដែល Free download(http://www.mysql.com) សំរាប់ប្រើប្រាស់ ដែលវាអាចដំណើរ ខាងផ្នែក Server Side លក្ខណៈជា Relational Database Management System (RDBMS) ដែលមានភាពពេញនិយម ប្រើប្រាស់ជាមួយនិង PHP ដែលអ្នកអាច ប្រើប្រាស់ជាមួយនិង ភាសារ SQL(Structure Query Language)។

II. ការភ្ជាប់ជាមួយនិង MySQL Database

នៅក្នុងការភ្ជាប់ PHP 5 និងជំនាន់ក្រោយៗមកទៀតវាអនុញ្ញាតិអោយអ្នកអាចភ្ជាប់ តាម ពីរបៀបគឺៈ

*   ❖ MySQLi extension (the "i" stands for improved)ៈ អាចភ្ជាប់បានតែជាមួយនិង MySQL Database ហើយវាអាចការពារពីការ Hack ដោយប្រើប្រាស់នូវ SQL Injection។ Concept របស់ វាប្រើប្រាស់នូវ OOP។

*   ❖ PDO (PHP Data Objects): អាចភ្ជាប់ជាមួយនិងប្រភេទ Database បាន១២ ហើយ ដំណើរការរបស់វាមានភាពងាយស្រួល និងរហ័ស។ PDO អាចការពារពីការ Hack ដោយប្រើប្រាស់នូវ SQL Injection។ Concept របស់ វាប្រើប្រាស់នូវ OOP។

ឧទាហរណ៍ ១៖ (MySQLi Object-Oriented)

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";

// Create connection
$conn = new mysqli($servername, $username, $password);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";
?>
```

ឧទាហរណ៍ ២៖ (MySQLi Procedural)

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";

// Create connection
$conn = mysqli_connect($servername, $username, $password);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully";
?>
```

ឧទាហរណ៍ ៣៖ (PDO)

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";

try {
    $conn = new PDO("mysql:host=$servername;dbname=myDB", $username, $password);
    // set the PDO error mode to exception
    $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
    echo "Connected successfully";
    }
catch(PDOException $e)
    {
    echo "Connection failed: " . $e->getMessage();
    }
?>
```

III.   ការធ្វើការជាមួយនិង MySQL Databases

1. ការបង្កើតនូវ Databases: អ្នកអាចធ្វើការបង្កើតនូវ Database តាមរយៈ Code PHP ជាមួយនិង SQL Statement តាម ៣ទំរង់ដូចខាងក្រោម៖

ទំរង់ទី ១(MySQLi Object-oriented)

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";

// Create connection
$conn = new mysqli($servername, $username, $password);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Create database
$sql = "CREATE DATABASE myDB";
if ($conn->query($sql) === TRUE) {
    echo "Database created successfully";
} else {
    echo "Error creating database: " . $conn->error;
}

$conn->close();
?>
```

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Page 3

ទំរង់ទី ២: (MySQLi Procedural)

```php
1  <?php
2  $servername = "localhost";
3  $username = "username";
4  $password = "password";
5
6  // Create connection
7  $conn = mysqli_connect($servername, $username, $password);
8  // Check connection
9  if (!$conn) {
10     die("Connection failed: " . mysqli_connect_error());
11 }
12
13 // Create database
14 $sql = "CREATE DATABASE myDB";
15 if (mysqli_query($conn, $sql)) {
16     echo "Database created successfully";
17 } else {
18     echo "Error creating database: " . mysqli_error($conn);
19 }
20
21 mysqli_close($conn);
22 ?>
23
```

ទំរង់ទី ៣: (PDO)

```php
1  <?php
2  $servername = "localhost";
3  $username = "username";
4  $password = "password";
5
6  try {
7      $conn = new PDO("mysql:host=$servername", $username, $password);
8      // set the PDO error mode to exception
9      $conn->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
10     $sql = "CREATE DATABASE myDBPDO";
11     // use exec() because no results are returned
12     $conn->exec($sql);
13     echo "Database created successfully<br>";
14     }
15 catch(PDOException $e)
16     {
17     echo $sql . "<br>" . $e->getMessage();
18     }
19
20 $conn = null;
21 ?>
```

2. ការបញ្ចូលទិន្នន័យទៅកាន់ Databases: អ្នកអាចធ្វើការបញ្ចូលទិន្នន័យដូចជា អក្សរ(Text), លេខ(Numeric) , Object -ល- ។ខាងក្រោមគឺជាទំរង់ដែលអាច ដាក់ទិន្នន័យចូលក្នុង Database។

ឧទាហរណ៍ ១៖ ការទំលាក់ទិន្នន័យម្ដង់បាន ១ record

```php
1   <?php
2   $servername = "localhost";
3   $username = "username";
4   $password = "password";
5   $dbname = "ETECDB";
6
7   // Create connection
8   $conn = new mysqli($servername, $username, $password, $dbname);
9   // Check connection
10  if ($conn->connect_error) {
11      die("Connection failed: " . $conn->connect_error);
12  }
13
14  $sql = "INSERT INTO MyGuests (firstname, lastname, email)
15  VALUES ('Dara', 'Sok', 'dara@gmail.com')";
16
17  if ($conn->query($sql) === TRUE) {
18      echo "New record created successfully";
19  } else {
20      echo "Error: " . $sql . "<br>" . $conn->error;
21  }
22
23  $conn->close();
24  ?>
```

រៀបរៀងដោយសាស្ត្រាចារ្យ: ហោង ភក្តិណា អនុបណ្ឌិតពត៌មានវិទ្យា ឯកទេសបង្កើតកម្មវិធី
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Page 5

ឧទាហរណ៍ ២៖ ការទំលាក់ទិន្នន័យមួងដង់បាន ច្រើន records

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('Sok', 'Da', 'sokda@gmail.com');";
$sql .= "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('Vanna', 'Srey', 'vanna@gmail.com');";
$sql .= "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('Ly', 'Vesna', 'vesana@yahoo.com')";

if ($conn->multi_query($sql) === TRUE) {
    echo "New records created successfully";
} else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}

$conn->close();
?>
```

3. ការទាញយកទិន្នន័យចេញពីក្នុង Database មកបង្ហាញវិញនៅលើ Webpage។ ខាងក្រោមបង្ហាញពីទំរង់ក្នុងការទាញយកទិន្នន័យចេញមកបង្ហាញវិញ។

ឧទាហរណ៍ ១៖ (MySQLi Object-oriented)

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "SELECT id, firstname, lastname FROM MyGuests";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    while($row = $result->fetch_assoc()) {
        echo "id: " . $row["id"]. " - Name: " . $row["firstname"]. " " .
                                        $row["lastname"]. "<br>";
    }
} else {
    echo "0 results";
}
$conn->close();
?>
```

ឧទាហរណ៍ ២៖ MySQLi Object-oriented

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "SELECT id, firstname, lastname FROM MyGuests";
$result = $conn->query($sql);
```

```
17  if ($result->num_rows > 0) {
18      echo "<table><tr><th>ID</th><th>Name</th></tr>";
19      // output data of each row
20      while($row = $result->fetch_assoc()) {
21          echo "<tr><td>".$row["id"]."</td><td>".$row["firstname"]." ".
22                                  $row["lastname"]."</td></tr>";
23      }
24      echo "</table>";
25  } else {
26      echo "0 results";
27  }
28  $conn->close();
29  ?>
```

ឧទាហរណ៍ ៣៖ ការទាញយកទិន្នន័យដោយមានលក្ខណ្ឌ(Where)

```
+----+------------+-----------+----------------------+
| id | first_name | last_name | email                |
+----+------------+-----------+----------------------+
|  1 | Peter      | Parker    | peterparker@mail.com |
|  2 | John       | Rambo     | johnrambo@mail.com   |
|  3 | Clark      | Kent      | clarkkent@mail.com   |
|  4 | John       | Carter    | johncarter@mail.com  |
|  5 | Harry      | Potter    | harrypotter@mail.com |
+----+------------+-----------+----------------------+
```

```php
1   <?php
2   $link = mysqli_connect("localhost", "username", "password", "ETECDB");
3   if($link === false){
4       die("ERROR: Could not connect. " . mysqli_connect_error());
5   }
6   $sql = "SELECT * FROM persons WHERE first_name='john'";
7   if($result = mysqli_query($link, $sql)){
8       if(mysqli_num_rows($result) > 0){
9           echo "<table>";
10              echo "<tr>";
11                  echo "<th>id</th>";
12                  echo "<th>first_name</th>";
13                  echo "<th>last_name</th>";
14                  echo "<th>email</th>";
15              echo "</tr>";
```

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Page 8

```php
16     while($row = mysqli_fetch_array($result)){
17         echo "<tr>";
18             echo "<td>" . $row['id'] . "</td>";
19             echo "<td>" . $row['first_name'] . "</td>";
20             echo "<td>" . $row['last_name'] . "</td>";
21             echo "<td>" . $row['email'] . "</td>";
22         echo "</tr>";
23     }
24     echo "</table>";
25     // Close result set
26     mysqli_free_result($result);
27     } else{
28         echo "No records matching your query were found.";
29     }
30 } else{
31     echo "ERROR: Could not able to execute $sql. " . mysqli_error($link);
32 }
33
34 // Close connection
35 mysqli_close($link);
36 ?>
```

លំហាត់អនុវត្តន៍

ដោយអនុវត្តន៍លើតារាងបង្ហាញខាងលើចូរសរសេរកូដ PHP ច្រើសយកទិន្នន័យតាមលក្ខណ្ឌដូចខាងក្រោម៖

១) ច្រើសយកតែអ្នកដែលមាន first_Name ចាប់ផ្ដើមដោយអក្សរ P ឬ យកទាំងអស់ តែបញ្ចប់ដោយអក្សរ Y ?

២) ច្រើសយកតែអ្នកអ្នកនៅលើគេទាំងអស់ ៣ Record?

៣) ច្រើសយកមកបង្ហាញម្ដង់តែ ៥ Record ម្ដង់ ហើយតំរៀបតាមលំដាប់លំដោយតាម first_Name

```sql
1   SELECT *
2   FROM Student
3   LIMIT 5 OFFSET 2
4   ORDER BY ROLLNO;
```

```sql
1   SELECT Student, SUM(score) AS total
2   FROM Marks
3   GROUP BY Student
4
```

```
1   SELECT Student, SUM(score) AS total
2   FROM Marks
3   GROUP BY Student
4   HAVING total > 70
5
```

4. ការលុបទិន្នន័យចេញពីក្នុង Database *ទៅតាម លក្ខណ្ឌមួយច្បាស់លាស់*
ឧទាហរណ៍ ១៖

```
1   <?php
2   $servername = "localhost";
3   $username = "username";
4   $password = "password";
5   $dbname = "myDB";
6
7   // Create connection
8   $conn = new mysqli($servername, $username, $password, $dbname);
9   // Check connection
10  if ($conn->connect_error) {
11      die("Connection failed: " . $conn->connect_error);
12  }
13
14  // sql to delete a record
15  $sql = "DELETE FROM MyGuests WHERE id=3";
16
17  if ($conn->query($sql) === TRUE) {
18      echo "Record deleted successfully";
19  } else {
20      echo "Error deleting record: " . $conn->error;
21  }
22
23  $conn->close();
24  ?>
```

ឧទាហរណ៍ ២៖

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "ETECDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// sql to delete a record
$sql = "DELETE FROM MyGuests WHERE id<=20 AND score<50";

if ($conn->query($sql) === TRUE) {
    echo "Record deleted successfully";
} else {
    echo "Error deleting record: " . $conn->error;
}

$conn->close();
?>
```

5. ការកែទិន្នន័យ ក្នុង Database ទៅតាម លក្ខណ្ឌមួយច្បាស់លាស់

ឧទាហរណ៍ ១៖

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$sql = "UPDATE MyGuests SET lastname='Doe' WHERE id=2";
```

```php
16 if ($conn->query($sql) === TRUE) {
17     echo "Record updated successfully";
18 } else {
19     echo "Error updating record: " . $conn->error;
20 }
21
22 $conn->close();
23 ?>
```

ឧទាហរណ៍ ២៖

```php
1  <?php
2  $servername = "localhost";
3  $username = "username";
4  $password = "password";
5  $dbname = "myDB";
6
7  // Create connection
8  $conn = new mysqli($servername, $username, $password, $dbname);
9  // Check connection
10 if ($conn->connect_error) {
11     die("Connection failed: " . $conn->connect_error);
12 }
13
14 $sql = "UPDATE MyGuests SET lastname='Sok', firstname='Chan',
15                            age='29' WHERE id=2";
16
17 if ($conn->query($sql) === TRUE) {
18     echo "Record updated successfully";
19 } else {
20     echo "Error updating record: " . $conn->error;
21 }
22
23 $conn->close();
24 ?>
```
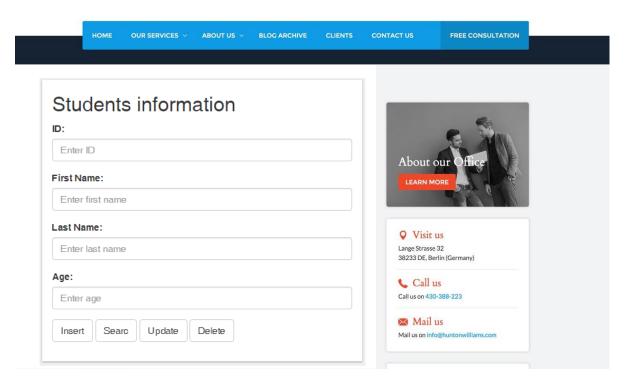
លំហាត់សម្រាប់អនុវត្តន៍ ១

គេមាន Database មួយដូចខាងក្រោម៖

```
1   //First create database
2   CREATE DATABASE 'college';
3   //Then create table
4   CREATE TABLE 'students' (
5   'student_id' int(11) NOT NULL AUTO_INCREMENT,
6   'student_name' varchar(255) NOT NULL,
7   'student_email' varchar(255) NOT NULL,
8   'student_city' varchar(255) NOT NULL,
9   PRIMARY KEY ('student_id')
10  )
```
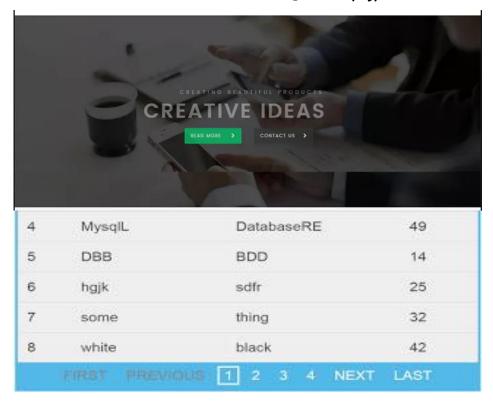
គេមាន Web Form មួយដូចខាងក្រោម៖

Insert data into database using mysqli

Student's Form

Student Name :

Please Enter Name

Student Email :

john123@gmail.com

Student City :

Please Enter Your City

Submit

```php
<?php
if(isset($_POST["submit"])){
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "college";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
die("Connection failed: " . $conn->connect_error);
}

$sql = "INSERT INTO students (student_name, student_email, student_city)
VALUES ('".$_POST["stu_name"]."','".$_POST["stu_email"]."','".$_POST["stu_city"]."')";

if ($conn->query($sql) === TRUE) {
echo "<script type= 'text/javascript'>alert('New record created successfully');
  </script>";
} else {
echo "<script type= 'text/javascript'>alert('Error: " . $sql . "<br>" . $conn->error."');
</script>";
}

$conn->close();
}
?>
```

លំហាត់សម្រាប់អនុវត្តន៍ ២

រៀបរៀងដោយសាស្ត្រាចារ្យ: ហោង ភក្តិណា អនុបណ្ឌិតព័ត៌មានវិទ្យា ឯកទេសបង្កើតកម្មវិធី
H/P: 096 226 888 4/ 092 5 41 41 9 Email: eteccenter@yahoo.com
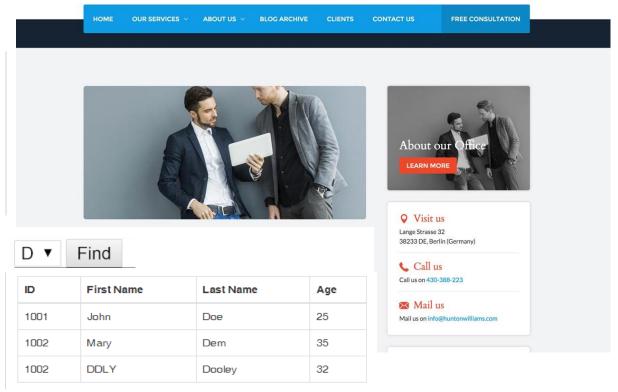
Page 14

```php
1   <?php
2
3   $dsn = 'mysql:host=localhost;dbname=ETEC_DB';
4   $username = 'root';
5   $password = '';
6   try{
7       // Connect To MySQL Database
8       $con = new PDO($dsn,$username,$password);
9       $con->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
10
11  } catch (Exception $ex) {
12
13      echo 'Not Connected '.$ex->getMessage();
14
15  }
16  $id = '';
17  $fname = '';
18  $lname = '';
19  $age = '';
20  function getPosts()
21  {
22      $posts = array();
23
24      $posts[0] = $_POST['id'];
25      $posts[1] = $_POST['fname'];
26      $posts[2] = $_POST['lname'];
27      $posts[3] = $_POST['age'];
28
29      return $posts;
30  }
32  //Search And Display Data
33
34  if(isset($_POST['search']))
35  {
36      $data = getPosts();
37      if(empty($data[0]))
38      {
39          echo 'Enter The User Id To Search';
40      } else {
41
42          $searchStmt = $con->prepare('SELECT * FROM users WHERE id = :id');
43          $searchStmt->execute(array(
44                      ':id'=> $data[0]
45          ));
46
47          if($searchStmt)
48          {
49              $user = $searchStmt->fetch();
50              if(empty($user))
51              {
52                  echo 'No Data For This Id';
53              }
54
55              $id    = $user[0];
56              $fname = $user[1];
57              $lname = $user[2];
58              $age   = $user[3];
59          }
60
61      }
62  }
63
```

```php
64  // Insert Data
65
66  if(isset($_POST['insert']))
67  {
68      $data = getPosts();
69      if(empty($data[1]) || empty($data[2]) || empty($data[3]))
70      {
71          echo 'Enter The User Data To Insert';
72      } else {
73
74          $insertStmt = $con->prepare('INSERT INTO users(fname,lname,age) VALUES(:fname,:lname,:age)');
75          $insertStmt->execute(array(
76                      ':fname'=> $data[1],
77                      ':lname'=> $data[2],
78                      ':age'  => $data[3],
79          ));
80
81          if($insertStmt)
82          {
83              echo 'Data Inserted';
84          }
85
86      }
87  }
88
89  //Update Data
90
91  if(isset($_POST['update']))
92  {
93      $data = getPosts();
94      if(empty($data[0]) || empty($data[1]) || empty($data[2]) || empty($data[3]))
95      {
96          echo 'Enter The User Data To Update';
97      } else {
98
99          $updateStmt = $con->prepare('UPDATE users SET fname = :fname, lname = :lname, age = :age WHERE id = :id');
100         $updateStmt->execute(array(
101                     ':id'=> $data[0],
102                     ':fname'=> $data[1],
103                     ':lname'=> $data[2],
104                     ':age'  => $data[3],
105         ));
106
107         if($updateStmt)
108         {
109             echo 'Data Updated';
110         }
111
112     }
113 }
114
115 // Delete Data
116
117 if(isset($_POST['delete']))
118 {
119     $data = getPosts();
120     if(empty($data[0]))
121     {
122         echo 'Enter The User ID To Delete';
123     } else {
124
125         $deleteStmt = $con->prepare('DELETE FROM users WHERE id = :id');
126         $deleteStmt->execute(array(
127                     ':id'=> $data[0]
128         ));
129
130         if($deleteStmt)
131         {
132             echo 'User Deleted';
133         }
134
135     }
136 }
```

លំហាត់សម្រាប់អនុវត្តន៍ ៣


```php
1  <?php
2
3  $hostname = "localhost";
4  $username = "root";
5  $password = "";
6  $databaseName = "ETEC_DB";
7  $connect = mysqli_connect($hostname, $username, $password, $databaseName);
8  $query = "SELECT * FROM users";
9  $result = mysqli_query($connect, $query);
10 |
11 ?>
12 <!DOCTYPE html>
13 <html>
14     <head>
15         <title> Html Table Pagination Using FooTable </title>
16         <meta charset="UTF-8">
17         <meta name="viewport" content="width=device-width, initial-scale=1.0">
18         <link rel="stylesheet" href="css/footable.core.css">
19         <link rel="stylesheet" href="css/footable.metro.css">
20         <script src="js/jquery-1.11.3.min.js"></script>
21         <script src="js/footable.js"></script>
22         <script src="js/footable.paginate.js"></script>
23     </head>
24       <body>
```

```html
26      <!-- data-page-size = number of data to display -->
27      <!-- data-XXX-text = text to display in the pagination bar -->
28          <table class="footable" data-page-size="6" data-first-text="FIRST"
29           data-next-text="NEXT" data-previous-text="PREVIOUS" data-last-text="LAST">
30              <thead>
31              <tr>
32                  <th>Id</th>
33                  <th>First Name</th>
34                  <th>Last Name</th>
35                  <th>Age</th>
36              </tr>
37              </thead>
38
39              <tbody>
40
41                  <!-- populate table from mysql database -->
42              <?php while($row1 = mysqli_fetch_array($result)):;?>
43              <tr>
44                  <td><?php echo $row1[0];?></td>
45                  <td><?php echo $row1[1];?></td>
46                  <td><?php echo $row1[2];?></td>
47                  <td><?php echo $row1[3];?></td>
48              </tr>
49              <?php endwhile;?>
50
51              </tbody>
52
53              <!-- the pagination -->
54              <!-- hide-if-no-paging = hide the pagination control -->
55              <tfoot class="hide-if-no-paging">
56              <td colspan="5">
57                  <div class="pagination"></div>
58              </td>
59              </tfoot>
60          </table>
61      </body>
62      <script type="text/javascript">
63
64          $(document).ready(function(){
65
66              $('.footable').footable();
67
68          });
69
70      </script>
71  </html>
72
```
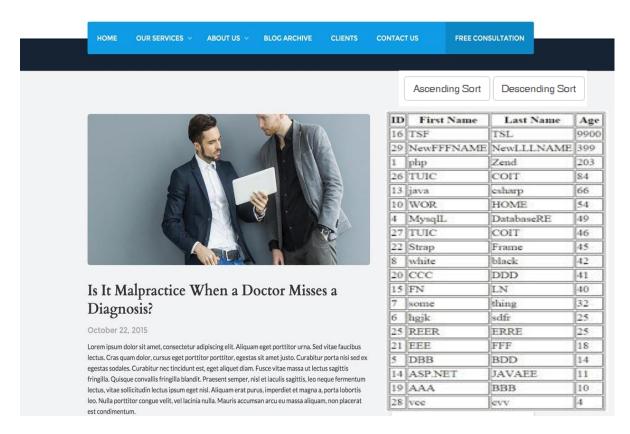
លំហាត់សម្រាប់អនុវត្តន៍ ៦


```php
1   <?php
2   $dsn = 'mysql:host=localhost;dbname=test_db';
3   $username = 'root';
4   $password = '';
5   try{
6
7       $con = new PDO($dsn, $username, $password);
8       $con->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
9
10  } catch (Exception $ex) {
11
12      echo 'Not Connected '.$ex->getMessage();
13  }
14  $tableContent = '';
15  $start = '';
16  $selectStmt = $con->prepare('SELECT * FROM users');
17  $selectStmt->execute();
18  $users = $selectStmt->fetchAll();
19
20  foreach ($users as $user)
21  {
22      $tableContent = $tableContent.'<tr>'.
23              '<td>'.$user['id'].'</td>'
24              .'<td>'.$user['fname'].'</td>'
25              .'<td>'.$user['lname'].'</td>'
26              .'<td>'.$user['age'].'</td>';
27  }
```

```
29  if(isset($_POST['search']))
30  {
31  $start = $_POST['start'];
32  $tableContent = '';
33  $selectStmt = $con->prepare('SELECT * FROM users WHERE fname like :start OR lname like :start');
34  $selectStmt->execute(array(
35
36          ':start'=>$start.'%'
37
38  ));
39  $users = $selectStmt->fetchAll();
40
41  foreach ($users as $user)
42  {
43      $tableContent = $tableContent.'<tr>'.
44              '<td>'.$user['id'].'</td>'
45          .'<td>'.$user['fname'].'</td>'
46          .'<td>'.$user['lname'].'</td>'
47          .'<td>'.$user['age'].'</td>';
48  }
49  }
50  ?>
51  <!DOCTYPE html>
52  <html>
53      <head>
54          <title>Search & Display Using Selected Values</title>
55          <style>
56              table,tr,td
57              {
58                  border: 1px solid #000;
59              }
60
61              td{
62                  background-color: #ddd;
63              }
64          </style>
65      </head>
66      <b
67          <form action="table_selected_value.php" method="POST">
68              <!--
69  For The First Time The Table Will Be Populated With All Data
70  But When You Choose An Option From The Select Options And Click The Find Button,
71  The Table Will Be Populated With specific Data
72              -->
73              <select name="start">
74                  <option value="">...</option>
75                  <option value="A" <?php if($start == 'A'){echo 'selected';}?>>A</option>
76                  <option value="B" <?php if($start == 'B'){echo 'selected';}?>>B</option>
77                  <option value="C" <?php if($start == 'C'){echo 'selected';}?>>C</option>
78                  <option value="D" <?php if($start == 'D'){echo 'selected';}?>>D</option>
79                  <option value="E" <?php if($start == 'E'){echo 'selected';}?>>E</option>
80                  <option value="F" <?php if($start == 'F'){echo 'selected';}?>>F</option>
81              </select>
82
```

រៀបរៀងដោយសាស្ត្រាចារ្យ: ហោង ភក្តិណា អនុបណ្ឌិតពត៌មានវិទ្យា ឯកទេសបង្កើតកម្មវិធី
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Page 20

```
83        <input type="submit" name="search" value="Find">
84        <table>
85            <tr>
86                <td>#ID</td>
87                <td>First Name</td>
88                <td>Last Name</td>
89                <td>Age</td>
90            </tr>
91
92            <?php
93
94            echo $tableContent;
95            ?>
96        </table>
97    </form>
98  </body>
99 </html>
```
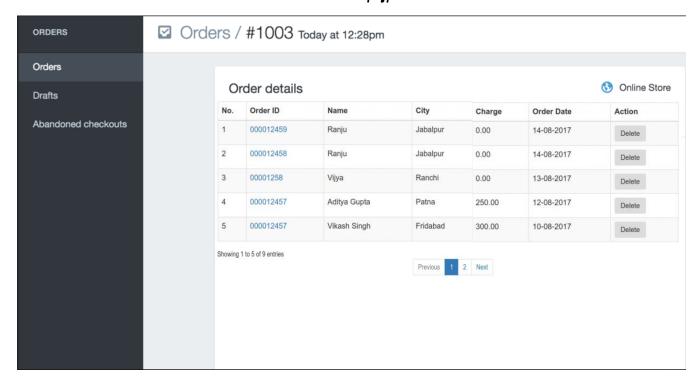
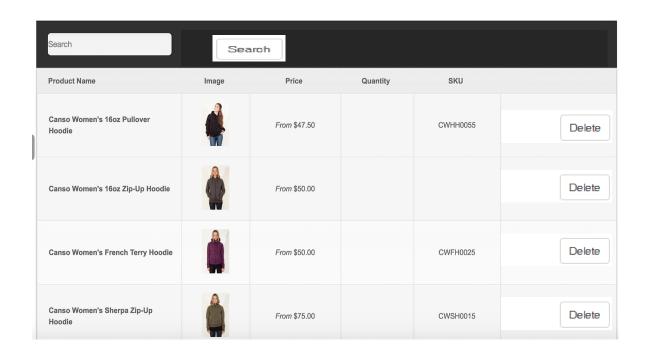## លំហាត់សម្រាប់អនុវត្តន៍ ៥ (តម្រៀបទិន្នន័យ/Sort)

```php
1   / Ascending Order
2   if(isset($_POST['ASC']))
3   {
4       $asc_query = "SELECT * FROM users ORDER BY age ASC";
5       $result = executeQuery($asc_query);
6   }
7   // Descending Order
8   elseif (isset ($_POST['DESC'])) |
9       {
10          $desc_query = "SELECT * FROM users ORDER BY age DESC";
11          $result = executeQuery($desc_query);
12      }
13      // Default Order
14   else {
15          $default_query = "SELECT * FROM users";
16          $result = executeQuery($default_query);
17  }
18  function executeQuery($query)
19  {
20      $connect = mysqli_connect("localhost", "root", "", "test_db");
21      $result = mysqli_query($connect, $query);
22      return $result;
23  }
24
25  ?>
26  <!DOCTYPE html>
27  <html>
28      <head>
29          <title> PHP HTML TABLE ORDER DATA </title>
30          <style>
31              table,tr,th,td
32              {
33                  border: 1px solid black;
34              }
35          </style>
36      </head>
37      <body>
38          <form action="php_html_table_data_order.php" method="post">
39
40              <input type="submit" name="ASC" value="Ascending"><br><br>
41              <input type="submit" name="DESC" value="Descending"><br><br>
42
43              <table>
44                  <tr>
45                      <th>ID</th>
46                      <th>First Name</th>
47                      <th>Last Name</th>
48                      <th>Age</th>
49                  </tr>
50                  <!-- populate table from mysql database -->
51                  <?php while ($row = mysqli_fetch_array($result)):?>
52                  <tr>
53                      <td><?php echo $row[0];?></td>
54                      <td><?php echo $row[1];?></td>
55                      <td><?php echo $row[2];?></td>
56                      <td><?php echo $row[3];?></td>
57                  </tr>
58                  <?php endwhile;?>
59              </table>
60          </form>
61      </body>
62  </html>
```
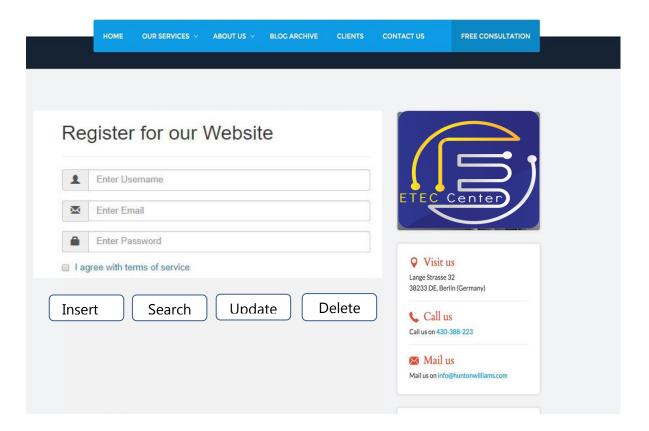
លំហាត់ អនុវត្តន៍ ១

លំហាត់ អនុវត្តន៍ ២

រៀបរៀងដោយសាស្ត្រាចារ្យ៖ ហុង ភក្តិណា អនុបណ្ឌិតពត៌មានវិទ្យា ឯកទេសបង្កើតកម្មវិធី
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Page 23

លំហាត់ អនុវត្តន៍ ៣

លំហាត់ អនុវត្តន៍ ៤

Good Luck!