**PL/SQL: Oracle database and PHP**

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| **1. Introduction:**  **As PHP connects to MySQL, it connects also with Oracle:**  **With MySQL:**  <?php $conn = @mysql\_connect("localhost", "root", "mypasswd");?>  **With Oracle-PHP:**  $conn = oci\_connect('user-name', 'password', '//localhost:1521/XE');  or: Oracle-JDBC:  OracleDataSource ods = new OracleDataSource();  SQL: ods.setURL("jdbc:oracle:thin@host:1521:XE","user-name","password");  PL/SQL: ods.setURL("jdbc:oracle:thin:user-name/password@host:1521/XE");  Connection conn = ods.getConnection();    To use this Oracle Call Interface (OCI) connection, once php is installed:  Go to php.ini file ( in this case in C:\WINDOWS\ directory), and uncomment  - Uncomment extension=php\_oci8.dll (delete the ;)  - Then start the Apache.  Test your connection with this:  <?php  $conn = oci\_connect('User-name', 'password', '//host:1521/XE');  if (!$conn){  echo "The Oracle connection failed.";  exit;}  else {  echo 'The connection to Oracle succeed.';  }  ?>  Here is an example (phys\_search.php) allowing the connection to the XE Oracle database  and Physicists table. The form used gives two text area to search for a physicist  by entering her/his first and last names (or some first initials).  Save the file in a directoy related web server (http://localhost:8033/PLSQL/)  and double-click on the phys\_search.php file  **2. Related program:**  <h2>Information Physicist Search by first and last names</h2>  <?php  // The form:  function get\_input($first = "", $last = "")  {  echo <<<END  <form action="phys\_search.php" method="post">  <table><tr><td>  First name:</td><td>  <input type="text" name="first" value="$first"></td></tr>  <tr><td>  Last name:</td><td>  <input type="text" name="last" value="$last"></td></tr>  <tr><td><br />    </td><td>  <input type="submit"></td></tr></table>  </form>  END;  }  if(!isset($\_REQUEST['first'])) {  echo "<b>Enter two arguments: complete first and last names, or  initial substrings.</b><p><br />";  get\_input();  }  else {  // check whether the input fields are not empty  if (empty($\_REQUEST['first']) or empty($\_REQUEST['last'])) {  echo "<b>Re-enter informations text in both fields:</b><p><br />";  get\_input($\_REQUEST['first'], $\_REQUEST['last']);  }  else {  $conn = oci\_connect('user-name', 'password', '//host:1521/XE');  // Are we connected?  if (!$conn) {  echo( " Unable to locate the table Physicists. " );  }  else{  echo( " <i> We are connected ... </i><br />" );  }  // execute the function that calls the stored procedure  $phys = get\_Physicists($conn, $\_REQUEST['first'], $\_REQUEST['last']);  // display results  print\_results($phys, 'Result: Physicist Information:');  // close the database connection  oci\_close($conn);  }  }  // The following functions calls the procedure that uses a ref cursor  //to fetch records  function get\_Physicists($conn, $firstname, $lastname)  {  $sql = "BEGIN get\_phys\_info(:first\_name, :last\_name, :refcur); END;";  $stmt = oci\_parse($conn, $sql);  oci\_bind\_by\_name($stmt, ':first\_name', $firstname, 20);  oci\_bind\_by\_name($stmt, ':last\_name', $lastname, 25);  $refcur = oci\_new\_cursor($conn);  oci\_bind\_by\_name($stmt, ':REFCUR', $refcur, -1, OCI\_B\_CURSOR);  oci\_execute($stmt);  oci\_execute($refcur, OCI\_DEFAULT);  oci\_fetch\_all($refcur, $physicistrecords, null, null, OCI\_FETCHSTATEMENT\_BY\_ROW);  return ($physicistrecords);  }  // To print the results  function print\_results($returned\_records, $report\_title)  {  echo '<h3>'.htmlentities($report\_title).'</h3>';  if (!$returned\_records) {  echo '<p>No Records Found</p>';  }  else {  echo '<table border="1" cellspacing = "3" cellpadding = "7">';  foreach ($returned\_records as $row) {  echo '<tr>';  foreach ($row as $field) {  print '<td>'.  ($field ? htmlentities($field) : ' ').'</td>';  }  }  echo '</table>';  }  }  ?>  **3. Related result:**  **Fill in the form:**    **Related output** |