

# PHP MySQL Oracle

Pemrograman Web  
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## MySQL

- DBMS Open Source dan Freeware alias gratisan
- DBMS Open Source dan freeware:
  - MySQL
  - Postgre
- Cukup Bagus untuk aplikasi besar sekalipun
- Aplikasi lebih ringan

# Koneksi MySQL

```
$conn = mysql_connect ("host","username","password");  
mysql_select_db("nama_basisdata", $conn);
```

```
$conn = mysql_connect ("127.0.0.1","root","");  
mysql_select_db("progweb", $conn);
```

# Mengeksekusi Query

```
$query = "";  
.....  
$hasil = mysql_query($query, $conn);
```

```
$query="";  
.....  
$hasil=mysql_query($query, $conn)or die (mysql_error());
```

# Mengambil Data

```
while(list($kolom1, $kolom2) = mysql_fetch_row($hasil)){  
    //proses  
}
```

```
while(list($user, $password) = mysql_fetch_row($hasil)){  
    //proses  
}
```

# Menutup Koneksi MySQL

```
mysql_close($conn);
```

## Koneksi MySQL dengan Kelas

```
<?
/*****
* Filename : include/DBClass.class.php
* Programmer : Rosa Ariani Sukanto
* Date : 2009-01-13
* Email : rosa_if_itb_01@yahoo.com
* Deskripsi : kelas untuk mengakses basis data
*
*****/

class DBClass {

    var $db_host = ''; // host dari basis data
    var $db_user = ''; // user basis data
    var $db_password = ''; // password basis data
    var $db_name = ''; // nama basis data
    var $db_link = ''; // nama basis data
    var $result = 0;

}

?>
```

## Koneksi MySQL dengan Kelas

```
function DBClass($db_host='', $db_user='', $db_password='', $db_name='') {
//konstruktor
    $this->db_host = $db_host;
    $this->db_user = $db_user;
    $this->db_password = $db_password;
    $this->db_name = $db_name;
}
}
```



## Koneksi MySQL dengan Kelas

```
function open(){  
    //membuka koneksi  
    $this->db_link = mysql_connect($this->db_host, $this->db_user, $this->db_password);  
    mysql_select_db($this->db_name, $this->db_link);  
}
```



## Eksekusi Query pada MySQL dengan Kelas

```
function execute($query="") {  
    //mengeksekusi query  
    $this->result = mysql_query($query, $this->db_link);  
    //echo $query."<br/><br/>";  
    return $this->result;  
}
```

## Mengambil Hasil Query pada MySQL dengan Kelas

```
function getResult () {  
    //mengambil hasil eksekusi query  
    .....  
    return mysql_fetch_row($this->result);  
}
```

## Menutup Koneksi MySQL dengan Kelas

```
function close () {  
    //menutup koneksi  
    .....  
    mysql_close ($this->db_link);  
}
```

# File Konfigurasi

## diberi nama conf.php

```
/*
 * Filename : conf.php
 * Programmer : Rosa Ariani Sukanto
 * Date : 2009-01-13
 * Email : rosa_if_itb_01@yahoo.com
 * Deskripsi : berisi konfigurasi
 *
 */

//konfigurasi basis data
$db_host = "localhost"; // host dari basis data
$db_user = "root"; // user basis data
$db_password = ""; // password basis data
$db_name = "nama_tabel"; // nama basis data
//konfigurasi direktori
$templates_dir = "templates"; // direktori template html
$images_dir = "images"; // direktori image
$include_dir = "include"; // direktori tempat file-file include
```

## Pemakaian Kelas DBClass: Query Satu Baris Hasil

```
/*
 * Filename : login.php
 * Programmer : Rosa A. S.
 * Date : 2008-07-05
 *
 */

include("conf.php");
include($include_dir."/DBClass.class.php");

$db = new DBClass($db_host, $db_user, $db_password, $db_name);
$db->open();

$query = "SELECT COUNT(*) FROM tlogin ";
$query .= "WHERE ((username='".$username."' ) AND password='".md5($password)."' )";
$result = $db->execute($query);

$count = 0;

if(list($count) = $db->getResult()){
    if($count > 0){
        echo "login Anda valid<br/>";
    }else{
        echo "login Anda tidak valid<br/>";
    }
}

$db->close();
```

## Pemakaian Kelas DBClass: Query banyak hasil

```
include("conf.php");
include($include_dir."/DBClass.class.php");

$db = new DBClass($db_host, $db_user, $db_password, $db_name);
$db->open();

$query = "SELECT Username, Password FROM tlogin ";
$result = $db->execute($query);

$count = 0;
echo "<table border='1'>
    <tr>
        <td><b>Username</b></td>
        <td><b>Password</b></td>
    </tr>";
while(list($username, $password) = $db->getResult()){
    echo "<tr>
        <td>".$username."</td>
        <td>".$password."</td>
    </tr>";
}
echo "</table>";
$db->close();
```

## Pemakaian Kelas DBClass: Query Ubah Data

```
include("conf.php");
include($include_dir."/DBClass.class.php");

$db = new DBClass($db_host, $db_user, $db_password, $db_name);
$db->open();
$query = "INSERT INTO tlogin(Username, Password) ";
$query .= "VALUES ('".$username."', '".md5($password)."' ) ";
$result = $db->execute($query);
$db->close();
```



## Oracle

- Produk Lisensi dengan berbagai paket berbayar
- Tidak dipaket di dalam Xampp
- Di PC harus ada Oracle atau minimal Oracle Instant Client
- Oracle Instant Client bisa di-*download* gratis di web Oracle
  - hanya berupa library
  - tidak dapat digunakan untuk menyimpan data



## Setting untuk Koneksi Oracle

- Tampilkan PHP Info, cari path php.ini yang digunakan

Configuration File (php.ini) Path	C:\xampp\apache\bin\php.ini
--------------------------------------	-----------------------------

## Setting untuk Koneksi Oracle

- Buka file php.ini dengan path pada php info
- Hapus tanda titik koma pada teks berikut

```
;extension=php_nettools.dll  
;extension=php_ntuser.dll  
;extension=php_oracle.dll  
;extension=php_oci8.dll  
;extension=php_oggvorbis.dll
```

menjadi

```
extension=php_nettools.dll  
extension=php_ntuser.dll  
extension=php_oracle.dll  
extension=php_oci8.dll  
extension=php_oggvorbis.dll
```

- lalu restart apache

## Koneksi dengan Oracle

```
/*  
 * Filename : include/OraClass.class.php  
 * Programmer : Rosa Ariani Sukanto  
 * Date : 2009-01-13  
 * Email : rosa_if_itb_01@yahoo.com  
 * Deskripsi : Kelas untuk mengakses basis data Oracle  
 *  
 */  
  
class OraClass{  
    var $db_host = '' ; // host basis data  
    var $db_username = '' ; // username basis data  
    var $db_password = '' ; // password basis data  
    var $db_name = '' ; // nama basis data  
  
    var $conn; //handle koneksi  
    var $result; // handle hasil  
}
```



# Koneksi dengan Oracle

```
function OraClass($db_host='', $db_username='', $db_password='', $db_name='') {  
    // konstruktor untuk mengeset variabel kelas  
    $this->db_host = $db_host;  
    $this->db_username = $db_username;  
    $this->db_password = $db_password;  
    $this->db_name = $db_name;  
}
```



# Koneksi dengan Oracle

```
function open() {  
    //membuka koneksi ke basis data  
    if (!$this->conn= OCILogon($this->db_username,$this->db_password,$this->db_name));  
        print "Error Connection: ".$this->db_username."-".$this->db_password."-".$this->db_name;  
        exit;  
    }  
}
```



## Mengeksekusi Query pada Oracle

```
function execute($query=""){  
    // mengeksekusi query masukan  
    $this->result = OCIParse($this->conn, $query);  
    OCIExecute($this->result);  
    if (!$this->result){  
        $error = OCIError($query);  
        print $error['code'];  
        exit;  
    }  
}
```



## Mengambil Data dari Eksekusi Query Oracle

```
function fetch(){  
    // mengambil hasil query  
    return OCIFetch($this->result);  
}
```

# Mengambil Data Oracle

```
function returnvalue($column) {  
    // metode untuk mengembalikan nilai hasil query dengan nama kolom masukan  
    .....  
    return OCIResult($this->result, $column);  
}
```

# Menutup Koneksi Oracle

```
function close() {  
    // menutup koneksi basis data  
    .....  
    return OCILogOff($this->conn);  
}
```

# Pemakaian Kelas OraClass

```
/*
 * Filename : conf.php
 * Programmer : Rosa Ariani Sukanto
 * Date : 2009-01-13
 * Email : rosa_if_itb_01@yahoo.com
 * Deskripsi : konfigurasi gateway SISPRAN untuk SIPPAM
 *
 */

// konfigurasi basis data
$db_ora_host = "localhost"; // host dari basis data
$db_ora_user = "sysman"; // user basis data
$db_ora_password = "orakelarkelar"; // password basis data
$db_ora_name = "orcl"; // nama basis data
```

# Pemakaian Kelas OraClass

- untuk query dengan satu baris hasil

```
include("conf.php");
include($include_dir."/OraClass.class.php");

$db = new OraClass($db_ora_host, $db_ora_user, $db_ora_password, $db_ora_name);
$db->open();
$query = "SELECT COUNT(*) AS COUNT FROM tlogin ";
$query .= "WHERE ((Username='".$username."' ) AND (Password='".md5($password)."' ) )";
$db->execute($query);

$count = 0;
if($db->fetch()){
    $count = $db->returnvalue("COUNT");
    if($count > 0){
        echo "login Anda valid<br/>";
    }else{
        echo "login Anda tidak valid<br/>";
    }
}

$db->close();
```

# Pemakaian Kelas OraClass

- untuk query dengan hasil banyak baris

```
include ("conf.php");
include ($include_dir."/OraClass.class.php");

$db = new OraClass($db_ora_host, $db_ora_user, $db_ora_password, $db_ora_name);
$db->open();
$query = "SELECT Username, Password FROM tlogin ";
$db->execute($query);

$count = 0;
while ($db->fetch()){
    $username = $db->returnvalue("USERNAME");
    $password = $db->returnvalue("PASSWORD");
    echo "username: ".$username."    password: ".$password."    <br/>"
}

$db->close();
```

# Pemakaian Kelas OraClass

- untuk query yang mengubah data

```
include ("conf.php");
include ($include_dir."/OraClass.class.php");

$db = new OraClass($db_ora_host, $db_ora_user, $db_ora_password, $db_ora_name);
$db->open();
$query = "INSERT INTO tlogin(Username, Password) ";
$query .= "VALUES('".$username."', 'md5($password).') ";
$db->execute($query);
$db->close();
```