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<?php
// Program: gen_class.php
// Author: Luis Dias
// Date: 12/06/2006
// Generate php classes to wrap database tables
// CRUD - Create, Retrieve, Update, Delete

$dbuser      = "user_name";
$dbpassword  = "password";
$dbserver    = "www.myserver.com";
$dbname      = "db_name";
$myclasses  = array();
$myclassdef  = "";
$myclassdb  = "";
$mybaseclass = "";
$i          = 1;

$myclassdb = $myclassdb . '<?php';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . 'class mydatabase';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '{';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . ' var $ok;';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . ' function open()';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '{';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '      $this->ok = mysql_pconnect("' . $dbserver .
'","' . $dbuser . "','" . $dbpassword . ');';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '      if (!$this->ok)';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '          return false;';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '      if (!mysql_select_db("'" . $dbname . '"))';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '          return false;';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '      return $this->ok;';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '    }';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . ' function close()';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '{';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '    mysql_close($this->ok);';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '    }';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . ' }';
$myclassdb = $myclassdb . "\n";
$myclassdb = $myclassdb . '?>';

$mybaseclass = $mybaseclass . '<?php';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . 'class mybaseclass {';
$mybaseclass = $mybaseclass . "\n\n";
$mybaseclass = $mybaseclass . 'public $output;';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . ' function mysql_prepare ($query, $phs =
array()) {';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '     foreach ($phs as $ph) {';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '         if ( isset($ph) ) {';

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$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '          $ph = "';
$mybaseclass = $mybaseclass . "'";
$mybaseclass = $mybaseclass . '" . mysql_real_escape_string($ph) . "'';
$mybaseclass = $mybaseclass . "'";
$mybaseclass = $mybaseclass . "';";
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '      } else {';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '          $ph = "NULL" ';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '      }';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '      $query = substr_replace(';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '          $query, $ph, strpos($query, ';
$mybaseclass = $mybaseclass . "'";
$mybaseclass = $mybaseclass . '?';
$mybaseclass = $mybaseclass . "'";
$mybaseclass = $mybaseclass . '), 1';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '      );';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '    }';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '    return $query;';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '    } // function mysql_prepare ';
$mybaseclass = $mybaseclass . "\n\n";
$mybaseclass = $mybaseclass . '    } // class mybaseclass ';
$mybaseclass = $mybaseclass . "\n";
$mybaseclass = $mybaseclass . '?>';

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$db = mysql_connect( $dbserver, $dbuser, $dbpassword );
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mysql_select_db( $dbname );
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$tables_res = mysql_query( "SHOW TABLES FROM ".$dbname, $db );
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$tables = array();
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while( $tableinfo = mysql_fetch_row($tables_res) ) {
    $tables[] = $tableinfo[ 0 ];
}
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mysql_free_result( $tables_res );
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foreach( $tables as $table ) { ;
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    $myclasdef = $myclasdef . '<?php' ;
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    $myclasdef = $myclasdef . "\n" ;
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    $myclasdef = $myclasdef . "require_once('mybaseclass.php');" ;
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    $myclasdef = $myclasdef . "\n" ;
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    $pk = null; // chave primaria da tabela
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    $updsets = array();
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    $updfields = array();
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    $insfields = array();
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    $insvalues = array();
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    $insvars = array();
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    $allfields = array();
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$fields_res = mysql_query( "SHOW FIELDS FROM ".$table, $db );
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while( $fieldinfo = mysql_fetch_row($fields_res) ) {
    $insfields[] = $fieldinfo[0];
    $allfields[] = $fieldinfo[0];
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    if ( $fieldinfo[3] == "PRI" ) {
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        $pk = $fieldinfo[0];
        $insvalues[] = 0;
    }
    else
    {
        $updsets[] = $fieldinfo[0] . '=?';
        $updfields[] = '$this->'.$fieldinfo[0];
        $insvalues[] = '??';
        $insvars[] = '$this->'.$fieldinfo[0];
    }
}

$insvars = join( $insvars, ', ');
$insvalues = join( $insvalues, ', ');
$insfields = join( $insfields, ', ');
$updfields[] = '$this->'.$pk;
$updfields = join( $updfields, ', ');
$updsets = join( $updsets, ', ');

$myclasdef = $myclasdef . "class ". $table . " extends mybaseclass {\n\n"
;
foreach ( $allfields as $myfield ) {
    $myclasdef = $myclasdef . 'public $'. $myfield . ';;'
    $myclasdef = $myclasdef . "\n";
}
$myclasdef = $myclasdef . "\n" ;

/* CREATE */
$myclasdef = $myclasdef . 'function create() {' ;
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . '$args = array( ' . $insvars . ' );';
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . '$sql = "INSERT INTO ' . $table . ' ( ' . $
insfields . ' ) VALUES ( ' . $insvalues . ' )";';
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . '$sql = $this->mysql_prepare( $sql, $args );' ;
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . '$ok = mysql_query( $sql );' ;
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . 'return $ok;';
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . '}' ;
$myclasdef = $myclasdef . "\n\n" ;

/* RETRIEVE */
$myclasdef = $myclasdef . 'function retrieve() {' ;
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . '$sql = "SELECT ' . $insfields . ' FROM ' . $
table . ' WHERE ' . $pk . ' = "' . ' . mysql_real_escape_string($this->' .
$pk . ' )";';
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . '$rs = mysql_query( $sql );' ;
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . 'if (!$rs) {';
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . '    return false;';
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . '}' ;
$myclasdef = $myclasdef . "\n" ;
$myclasdef = $myclasdef . 'while ($obj = mysql_fetch_object($rs)) {';
$myclasdef = $myclasdef . "\n" ;
foreach ( $allfields as $myfield ) {
    $myclasdef = $myclasdef . '    $this->'. $myfield . ' = $obj->' . $
myfield . ';;';
    $myclasdef = $myclasdef . "\n";
}
$myclasdef = $myclasdef . '}' ;
$myclasdef = $myclasdef . "\n" ;

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$myclassdef = $myclassdef . 'return true;';
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . '}' ;
$myclassdef = $myclassdef . "\n\n" ;

/* UPDATE */
$myclassdef = $myclassdef . 'function update() {' ;
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . '$args = array( ' . $insvars . ' );' ;
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . '$sql = "UPDATE ' . $table . ' SET ' . $updsets
. ' WHERE ' . $pk . ' = "' . ' . $this->' . $pk . '";' ;
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . '$sql = $this->mysql_prepare( $sql, $args );' ;
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . '$ok = mysql_query( $sql );' ;
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . 'return $ok;';
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . '}' ;
$myclassdef = $myclassdef . "\n\n" ;

/* DELETE */
$myclassdef = $myclassdef . 'function delete() {' ;
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . '$sql = "DELETE FROM ' . $table . ' WHERE ' . $
pk . ' = "' . ' . $this->' . $pk . '";' ;
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . '$ok = mysql_query( $sql );' ;
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . 'return $ok;';
$myclassdef = $myclassdef . "\n" ;
$myclassdef = $myclassdef . '}' ;
$myclassdef = $myclassdef . "\n" ;

/* DISPLAY */
$myclassdef = $myclassdef . 'function display() {' ;
$myclassdef = $myclassdef . "\n" ;
foreach ( $allfields as $myfield ) {
    $myclassdef = $myclassdef . 'echo("<font color=#0000FF>");' ;
    $myclassdef = $myclassdef . "\n" ;
    $myclassdef = $myclassdef . 'echo("' . $myfield . ' : ");' ;
    $myclassdef = $myclassdef . "\n" ;
    $myclassdef = $myclassdef . 'echo("</font>");' ;
    $myclassdef = $myclassdef . "\n" ;
    $myclassdef = $myclassdef . 'echo($this->' . $myfield . ');' ;
    $myclassdef = $myclassdef . "\n" ;
    $myclassdef = $myclassdef . 'echo("<br />");' ;
    $myclassdef = $myclassdef . "\n" ;
    $myclassdef = $myclassdef . 'echo("\n");' ;
}
$myclassdef = $myclassdef . '}' ;
$myclassdef = $myclassdef . "\n" ;

/* LIST */

/* END CLASS DEFINITION */
$myclassdef = $myclassdef . '}' ;
$myclassdef = $myclassdef . "\n\n" ;

$myclassdef = $myclassdef . ">>";

$myclasses[$i] = $myclassdef ;
$myclassdef = "";
$i++;

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}; // foreach( $tables as $table ) { ;

mysql_free_result( $fields_res );

/* exibicao html */
echo("<html>\n");
echo("<head>\n");
echo("<title>Class Generator</title>\n");
echo("</head>\n");
echo("<body>\n");
echo("<h1>Class Generator</h1>\n");

echo("<h2>Database Class</h2>\n");
echo("<form>\n");
echo("<textarea rows=10 cols=80 name=txt>\n");
echo($myclassdb);
echo("</textarea>\n");
echo("<input type=button value='Selecionar'
onClick='javascript:this.form.txt.focus();this.form.txt.select();'>");
echo("<br /><br />\n");
echo("</form>\n");

echo("<h2>MyBaseClass</h2>\n");
echo("<form>\n");
echo("<textarea rows=10 cols=80 name=txt>\n");
echo($mybaseclass);
echo("</textarea>\n");
echo("<input type=button value='Selecionar'
onClick='javascript:this.form.txt.focus();this.form.txt.select();'>");
echo("<br /><br />\n");
echo("</form>\n");

echo("<h2>Table Classes</h2>\n");
foreach ( $myclasses as $myclassdef ) {
    echo("<form>\n");
    echo("<textarea rows=10 cols=80 name=txt>\n");
    echo($myclassdef);
    echo("</textarea>\n");
    echo("<input type=button value='Selecionar'
onClick='javascript:this.form.txt.focus();this.form.txt.select();'>");
    echo("<br /><br />\n");
    echo("</form>\n");
}
echo("</body>\n");
echo("</html>\n");
?>
```