Relational Database

Modern Information System

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Contents:

- Database Schema
- Practical implementation of the database with MySQL
- Insert, Update, Delete, View Data with PHP and HTML
- Database Queries
- XSL Transformation with XSLT

Database Scheme:

Domains:

Customer	Order	Product	Provider
idcustomer integer	idorder integer	Idproduct integer	Idprovider integer
company string	quantity integer	description string	name string
firstname string	productid integer	price float	street string
lastname string	customerid integer	minimumoforder integer	zip string
street string	providerid integer		city string
zip string	deliverydate string		email string
city string	delivered integer		
email string			

Relations:

Relation: Customer (<u>idcustomer</u>, company, *firstname*, *lastname*, *street*, *zip*, *city*, email)
Relation: Order(<u>idorder</u>, *quantity*, *productid*, *customerid*, *providerid*, *deliverydate*, delivered)

Relation: Product(<u>idproduct</u>, description, price, minimumoforder)

Relation: Provider(<u>idprovider</u>, name, street, zip, city, email)

Underline = Primary Key

Cursive = mandatory, Not Null

Underline + Cursive = foreign Key

productid = idproduct, customerid = idcustomer, providerid = idprovider

Practical implementation of the database with mySQL

```
CREATE TABLE customer (
  idcustomer int(11) NOT NULL AUTO INCREMENT,
  Company varchar(45) DEFAULT NULL,
  Firstname varchar(45) NOT NULL,
  Lastname varchar(45) NOT NULL,
  Street varchar(45) NOT NULL,
  Zip varchar(45) NOT NULL,
  City varchar(45) NOT NULL,
  email varchar(45) DEFAULT NULL,
  PRIMARY KEY (idcustomer)
);
CREATE TABLE order (
  idorder int(11) NOT NULL AUTO_INCREMENT,
  quantity int(11) NOT NULL,
  productid int(11) NOT NULL,
  customerid int(11) NOT NULL,
  providerid int(11) NOT NULL,
  deliverydate varchar(30) NOT NULL,
  delivered int(11) DEFAULT 0,
  PRIMARY KEY (idorder, productid, customerid, providerid)
 CONSTRAINT 'idcustomer' FOREIGN KEY ('customerid') REFERENCES 'customer' ('idcustomer'),
 CONSTRAINT 'idproduct' FOREIGN KEY ('productid') REFERENCES 'product' ('idproduct'),
 CONSTRAINT 'idprovider' FOREIGN KEY ('providerid') REFERENCES 'provider' ('idprovider')
);
CREATE TABLE product (
  idproduct int(11) NOT NULL AUTO_INCREMENT,
  description varchar(1000) NOT NULL,
  price float NOT NULL,
  minimum of order int(11) DEFAULT NULL,
  PRIMARY KEY (idproduct)
);
CREATE TABLE provider (
  idprovider int(11) NOT NULL AUTO_INCREMENT,
  name varchar(45) NOT NULL,
  street varchar(45) NOT NULL,
  zip varchar(45) NOT NULL,
  city varchar(45) NOT NULL,
  email varchar(45) DEFAULT NULL,
  PRIMARY KEY (idprovider)
);
```

Insert, Update, Delete, View Data with PHP and HTML

view_all_product.php

```
<?php
require("connect.php");
$tablename = '`sales`.`product`';
$maxlength = 50;
$size = 15:
$response_server = "";
if(isset($ POST['Delete']))
$idprod = $ POST["idprod"];
$query = mysql_query("DELETE FROM $tablename WHERE `idproduct`='$idprod';");
$response server = "Database server response:<br/>;
if($query != 0)
 $affected rows = mysql affected rows();
 $response_server = $response_server . "<strong>Query OK. Rows affected $affected_rows</strong>";
}
else
 $response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' . mysql_error() .
"</strong>";
}
}
if(isset($_POST['Update']))
$idprod = $_POST["idprod"];
$des = $ POST["description"];
$pri = $ POST["price"];
$mino = $ POST["minoforder"];
$query = mysql_query("UPDATE sales.product SET `description`='$des', `price`='$pri', `minimum of
order'='$mino' WHERE 'idproduct'='$idprod';");
$response server = "Database server response:<br>";
if($query != 0)
 $affected rows = mysql affected rows();
 $response_server = $response_server . "<strong>Query OK. Rows affected $affected_rows</strong>";
else
 $response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' . mysql_error() .
"</strong>";
}
}
if(isset($ POST['Add']))
$description = $_POST["description"];
$price = $ POST["price"];
$minoforder = $ POST["minoforder"];
if (empty($description) or empty($price) or empty($minoforder))
```

```
{
        $response_server = "<h2><font color = \"#FF0000\"><br>Not all fields are filled out!</h2><br>";
}
else
{
        /* Insert information into table */
        $query = MYSQL QUERY("INSERT INTO $tablename (`description`, `price`, `minimum of order`)
VALUES('$description', '$price', '$minoforder')");
        $response server = "Database server response:<br/>;
        if($query != 0)
        {
                $affected_rows = mysql_affected_rows();
                $response_server = $response_server . "<strong>Query OK. Rows affected
$affected rows</strong>";
        }
        else
        {
                $response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' .
mysql_error() . "</strong>";
}
}
$idproduct_array = array();
$product_array = array();
$price_array = array();
$minoforder_array = array();
$query = mysql query("SELECT * FROM $tablename");
while($row = mysql_fetch_array($query))
{
        $idproduct_array[] = $row['idproduct'];
        $product_array[] = $row['description'];
        $price_array[] = $row['price'];
        $minoforder_array[] = $row['minimum of order'];
require("disconnect.php");
PRINT "<html>";
PRINT "<head><title>View and edit all product</title></head>";
PRINT "<body>";
echo "<h1>View, edit and add products</h1>";
if(count($idproduct_array) == 0)
{
        echo "There are no products in the list.";
else
{
        PRINT "";
        echo "IDDescriptionPriceMinimum of order";
        for($i = 0; $i < count($idproduct_array); $i++)</pre>
        {
                PRINT "<form action = \"view_all_product.php\" method =\"POST\">";
                echo "";
                echo "<input name=\"idprod\" type=\"text\" border=\"0\" size=\"4\" value=\"" .
$idproduct_array[$i] . "\" readonly>";
```

```
echo "<textarea name= \"description\" cols=\"40\" rows=\"3\">" . $product array[$i].
"</textarea>";
             echo "<input type = \"text\" name = \"price\" size = \"$size\" maxlength =
echo "<input type = \"text\" name = \"minoforder\" size = \"$size\" maxlength =
echo "<input type=\"submit\" name=\"Update\" value=\"Update\"> ";
             echo "<input type=\"submit\" name=\"Delete\" value=\"Delete\"> ";
             echo "";
             PRINT "</form>";
      }
PRINT "<form action = \"view_all_product.php\" method =\"POST\">";
echo "";
echo "<textarea name= \"description\" cols=\"40\" rows=\"3\"></textarea>*";
echo "<input type = \"text\" name = \"price\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<input type = \"text\" name = \"minoforder\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<input type=\"submit\" name=\"Add\" value=\" Add \"> ";
echo "";
echo "";
echo "";
echo "Please fill out the mandatory fields (*)";
if (count($response server) != 0)
      echo $response_server;
echo "<a href = \"index.html\">Back</a>";
echo "</body>";
echo "</html>";
?>
```

view_all_provider.php

```
<?php
require("connect.php");
$tablename = 'sales.provider';
$maxlength = 50;
$size = 20;
$response server = "";
if(isset($_POST['Delete']))
$idpro = $ POST["idpro"];
$query = mysql query("DELETE FROM $tablename WHERE `idprovider`='$idpro';");
$response server = "Database server response:<br>";
if($query != 0)
{
 $affected_rows = mysql_affected_rows();
 $response server = $response server . "<strong>Query OK. Rows affected $affected rows</strong>";
}
else
 $response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' . mysql_error() .
```

```
"</strong>";
}
}
if(isset($_POST['Update']))
 $idpro = $ POST["idpro"];
 $name = $_POST["name"];
 $street = $_POST["street"];
 $zip= $ POST["zip"];
 $city= $ POST["city"];
 $mail = $_POST["mail"];
 $query = mysql_query("UPDATE $tablename SET `name`='$name', `street`='$street', `zip`='$zip', `city`='$city',
`email`='$mail' WHERE `idprovider`='$idpro';");
 $response server = "Database server response:<br/>;
 if($query != 0)
 $affected rows = mysql affected rows();
 $response_server = $response_server . "<strong>Query OK. Rows affected $affected_rows</strong>";
}
else
$response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' . mysql_error() .
"</strong>";
}
}
if(isset($_POST['Add']))
 $name = $_POST["name"];
 $street = $ POST["street"];
 $zip= $ POST["zip"];
 $city= $ POST["city"];
 $mail = $ POST["mail"];
 if (empty($name) or empty($street)or empty($zip) or empty($city))
 {
        $response_server = "<h2><font color = \"#FF0000\"><br>Not all fields are filled out!</h2><br>";
 }
 else
  $query = mysql query("INSERT INTO $tablename (`name`, `street`, `zip`, `city`, `email`) VALUES('$name',
'$street', '$zip', '$city', '$mail')");
  $response_server = "Database server response:<br>";
  if($query != 0)
  $affected_rows = mysql_affected_rows();
  $response_server = $response_server . "<strong>Query OK. Rows affected $affected_rows</strong>";
 }
 else
  $response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' . mysql_error() .
"</strong>";
 }
}
$idprovider_array = array();
$name array = array();
$street_array = array();
```

```
$zip_array = array();
$city_array = array();
$mail_array = array();
$query = mysql query("SELECT * FROM $tablename");
while($row = mysql_fetch_array($query))
        $idprovider_array[] = $row['idprovider'];
       $name_array[] = $row['name'];
       $street array[] = $row['street'];
        $zip_array[] = $row['zip'];
        $city_array[] = $row['city'];
        $mail_array[] = $row['email'];
require("disconnect.php");
PRINT "<html>";
PRINT "<head><title>View and edit all product</title></head>";
echo "<body>";
echo "<h1> View, edit and add provider</h1>";
PRINT "":
echo "IDNameStreetPostcodeCityemail";
if(count($idprovider_array) != 0)
       for($i = 0; $i < count($idprovider array); $i++)</pre>
               PRINT "<form action = \"view_all_provider.php\" method =\"POST\">";
               echo "";
               echo "<input name=\"idpro\" type=\"text\" border=\"0\" size=\"4\" value=\"" .
$idprovider array[$i]. "\" readonly>";
               echo "<input type = \"text\" name = \"name\" size = \"$size\" maxlength =
\"$maxlength\" value =\"" . $name_array[$i]. "\">";
               echo "<input type = \"text\" name = \"street\" size = \"$size\" maxlength =
\"$maxlength\" value =\"" . $street_array[$i]. "\">";
               echo "<input type = \"text\" name = \"zip\" size = \"$size\" maxlength = \"$maxlength\"
value =\"" . $zip array[$i]. "\">";
               echo "<input type = \"text\" name = \"city\" size = \"$size\" maxlength = \"$maxlength\"
value =\"" . $city array[$i]. "\">";
               echo "<input type = \"text\" name = \"mail\" size = \"$size\" maxlength =
\"$maxlength\" value =\"" . $mail_array[$i]. "\">";
               echo "<input type=\"submit\" name=\"Update\" value=\"Update\"> ";
               echo "<input type=\"submit\" name=\"Delete\" value=\"Delete\"> ";
               echo "";
               PRINT "</form>";
       }
echo "<form action = \"view all provider.php\" method =\"POST\">";
echo "";
echo "<td><input type = \"text\" name = \"name\" size = \"$size\" maxlength = \"$maxlength\">*</td>";
echo "<input type = \"text\" name = \"street\" size = \"size\" maxlength = \"$maxlength\">*";
echo "<input type = \"text\" name = \"zip\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<input type = \"text\" name = \"city\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<input type = \"text\" name = \"mail\" size = \"$size\" maxlength = \"$maxlength\">";
echo "<input type=\"submit\" name=\"Add\" value=\"Add\"> ";
PRINT "";
```

view_all_customer.php

```
<?php
require("connect.php");
$tablename = 'sales.customer';
$maxlength = 50;
$size = 15;
$response server = "";
if(isset($ POST['Delete']))
$idcos = $_POST["idcost"];
$query = mysql query("DELETE FROM $tablename WHERE 'idcustomer'='$idcos';");
$response server = "Database server response:<br>";
if($query != 0)
 $affected_rows = mysql_affected_rows();
 $response_server = $response_server . "<strong>Query OK. Rows affected $affected_rows</strong>";
}
else
$response server = $response server . "<strong>Query FAILED. ".'Invalid query: ' . mysql error() .
"</strong>";
}
if(isset($_POST['Update']))
 $idcos = $ POST["idcost"];
 $company = $ POST["company"];
 $firstname = $_POST["fristname"];
 $lastname = $_POST["lastname"];
 $street = $ POST["street"];
 $zip= $_POST["zip"];
 $city= $_POST["city"];
 $mail = $ POST["mail"];
 $query = mysql_query("UPDATE $tablename SET `Company`='$company', `Firstname`='$firstname',
`Lastname`='$lastname', `Street`='$street', `Zip`='$zip', `City`='$city', `email`='$mail' WHERE
`idcustomer`='$idcos';");
 $response_server = "Database server response:<br>";
 if($query != 0)
{
 $affected_rows = mysql_affected_rows();
 $response_server = $response_server . "<strong>Query OK. Rows affected $affected_rows</strong>";
```

```
else
 $response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' . mysql_error() .
"</strong>";
}
}
if(isset($_POST['Add']))
 $company = $ POST["company"];
 $fristname = $_POST["fristname"];
 $lastname = $_POST["lastname"];
 $street = $ POST["street"];
 $zip= $ POST["zip"];
 $city= $ POST["city"];
 $mail = $_POST["mail"];
 if (empty($company) or empty($fristname) or empty($lastname) or empty($street) or empty($zip) or
empty($city))
 {
        $response_server = "<h2><font color = \"#FF0000\"><br>Not all fields are filled out!</h2><br>";
 }
 else
  $query = mysql query("INSERT INTO $tablename ('Company', 'Firstname', 'Lastname', 'Street', 'Zip', 'City',
`email`) VALUES('$company', '$fristname', '$lastname', '$street', '$zip', '$city', '$mail')");
  $response_server = "Database server response:<br/><br/>;
        if($query != 0){
                 $affected_rows = mysql_affected_rows();
                 $response_server = $response_server . "<strong>Query OK. Rows affected
$affected_rows</strong>";
        } else{
                 $response server = $response server . "<strong>Query FAILED. ".'Invalid query: ' .
mysql_error() . "</strong>";
}
}
$idcostumer array = array();
$company_array = array ();
$firstname array = array();
$lastname_arry = array();
$zip_array = array();
$city_array = array();
$mail array = array();
$query = mysql_query("SELECT * FROM $tablename");
while($row = mysql fetch array($query))
{
        $idcostumer_array[] = $row['idcustomer'];
        $company array[] = $row['Company'];
        $firstname array[] = $row['Firstname'];
        $lastname_arry[] = $row['Lastname'];
        $street_array[] = $row['Street'];
        $zip array[] = $row['Zip'];
        $city array[] = $row['City'];
        $mail_array[] = $row['email'];
```

```
require("disconnect.php");
PRINT "<html>";
PRINT "<head><title>View and edit all costumer</title></head>";
PRINT "<body>";
echo "<h1> View, edit and add costumer</h1>";
PRINT "";
"IDCompanyFirstnameLastnameStreetPostcode
>Cityemail";
if(count($idcostumer_array) != 0)
       for($i = 0; $i < count($idcostumer_array); $i++)</pre>
               PRINT "<form action = \"view all customer.php\" method =\"POST\">";
               echo "";
               echo "<input name=\"idcost\" type=\"text\" border=\"0\" size=\"4\" value=\"" .
$idcostumer_array[$i] . "\" readonly>";
               echo "<input type = \"text\" name = \"company\" size = \"$size\" maxlength =
\"$maxlength\" value = \"" . $company array[$i] . "\">";
               echo "<input type = \"text\" name = \"fristname\" size = \"$size\" maxlength =
\"$maxlength\" value = \"" . $firstname_array[$i]. "\">";
               echo "<input type = \"text\" name = \"lastname\" size = \"$size\" maxlength =
\"$maxlength\" value = \"" . $lastname_arry[$i]. "\">";
               echo "<input type = \"text\" name = \"street\" size = \"$size\" maxlength =
\"$maxlength\" value = \"" . $street_array[$i]. "\">";
               echo "<input type = \"text\" name = \"zip\" size = \"$size\" maxlength = \"$maxlength\"
value = \"" . $zip array[$i]. "\">";
               echo "<input type = \"text\" name = \"city\" size = \"$size\" maxlength = \"$maxlength\"
value = \"" . $city array[$i]. "\">";
               echo "<input type = \"text\" name = \"mail\" size = \"$size\" maxlength = \"$maxlength\"
value = \"" . $mail array[$i]. "\">";
               echo "<input type=\"submit\" name=\"Update\" value=\"Update\"> ";
               echo "<input type=\"submit\" name=\"Delete\" value=\"Delete\"> ";
               echo "";
               PRINT "</form>";
       }
PRINT "<form action = \"view_all_customer.php\" method =\"POST\">";
echo "";
echo "<input type = \"text\" name = \"company\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<td><input type = \"text\" name = \"fristname\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<input type = \"text\" name = \"lastname\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<input type = \"text\" name = \"street\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<input type = \"text\" name = \"zip\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<input type = \"text\" name = \"city\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<input type = \"text\" name = \"mail\" size = \"$size\" maxlength = \"$maxlength\">";
echo "<input type=\"submit\" name=\"Add\" value=\" Add \"> ";
echo "";
echo "";
PRINT "</form>";
PRINT "";
echo "Please fill out the mandatory fields (*)";
```

```
if (count($response_server) != 0)
{
        echo $response_server;
}
PRINT "<a href = \"index.html\">Back</a>";
PRINT "</body>";
PRINT "</html>";
?>
```

view_all_order.php

```
<?php
require("connect.php");
$tablename = '`sales`.`order`';
$maxlength = 50;
$size = 15;
$response server = "";
$idorder_array = array();
$quantity array = array();
$product_array = array();
$idproduct_array = array();
$company_namen_customer_array = array();
$idcostumer_array = array();
$provider_array = array();
$idprovider_array = array();
$deliverydate_array = array();
$allready_delivered_array = array();
$company_namen_customer = array();
$provider = array();
$product = array();
//$id costumer array tbCustomer[] = array();
//$company_namen_customer_tbCustomer[] = array();
//$id_product_tbProduct[] = array();
//$product description tbProduct[] = array();
if(isset($_POST['Delete']))
{
$idord = $_POST["idorder"];
$query = mysql query("DELETE FROM $tablename WHERE `idorder`='$idord';");
$response_server = "Database server response:<br>";
if($query != 0)
 $affected_rows = mysql_affected_rows();
 $response_server = $response_server . "<strong>Query OK. Rows affected $affected_rows</strong>";
else
 $response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' . mysql_error() .
"</strong>";
```

```
}
if(isset($_POST['Update']))
 $idord = $_POST["idorder"];
 $quantity = $_POST["quantity"];
 $productid = intval($ POST["product"]);
 $customerid = intval($_POST["customer"]);
 $providerid = intval($_POST["provider"]);
 $deliverydate= $ POST["deliverydate"];
 $allready_delivered = $_POST["allreadydelivered"];
 if($allready_delivered == "1"){
 $query = mysql_query("UPDATE $tablename SET `quantity`='$quantity', `productid`='$productid',
`customerid`='$customerid', `providerid`='$providerid', `deliverydate`='$deliverydate', `delivered`='1' WHERE
`idorder`='$idord';");
 }
 else{
 $query = mysql query("UPDATE $tablename SET `quantity` = '$quantity', `productid` = '$productid',
`customerid`='$customerid', `providerid`='$providerid', `deliverydate`='$deliverydate' WHERE
`idorder`='$idord';");
 }
 $response_server = "Database server response:<br>" . $idord ."<br>" . $quantity."<br>" . $productid
."<br>".$customerid."<br>";
 if($query != 0)
 $affected_rows = mysql_affected_rows();
 $response_server = $response_server . "<strong>Query OK. Rows affected $affected_rows</strong>";
}
else
 $response server = $response server . "<strong>Query FAILED. ".'Invalid query: ' . mysql error() .
"</strong>";
}
}
if(isset($_POST['Add']))
 $quantity = $_POST["quantity"];
 $productid = intval($ POST["product"])+1;
 $providerid = intval($_POST["provider"]);
 $customerid = intval($ POST["customer"])+1;
 $deliverydate= $ POST["deliverydate"];
 //echo $quantity . "<br> product: " . $productid ."<br> provider: " . $providerid ."<br> deliver: " .
$deliverydate ."\n";
 if (empty($quantity) or empty($productid) or empty($providerid) or empty($customerid)or
empty($deliverydate))
{
        $response server = "<h2><font color=\"#FF0000\"><br>Not all fields are filled out!</h2><br>";
 }
 else
  $query = mysql_query("INSERT INTO $tablename (`quantity`, `productid`, `customerid`, `providerid`,
`deliverydate`) VALUES('$quantity', '$productid', '$customerid', '$providerid', '$deliverydate')");
  $response server = "Database server response:<br/><br/>;
        if($query != 0){
                 $affected_rows = mysql_affected_rows();
```

```
$response_server = $response_server . "<strong>Query OK. Rows affected
$affected_rows</strong>";
       } else{
                $response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' .
mysql_error() . "</strong>";
}
//query to get all entries in the table order
$query = mysql_query("SELECT * FROM $tablename where delivered like '0'");
while($row = mysql_fetch_array($query))
{
        $idorder_array[] = $row['idorder'];
        $quantity_array[] = $row['quantity'];
        $product_array[] = $row['productid'];
        $company_namen_customer_array[] = $row['customerid'];
        $provider_array[] = $row['providerid'];
        $deliverydate_array[] = $row['deliverydate'];
 $allready_delivered_array[] = $row['delivered'];
// query to get all entries in the table customer
$query = mysql_query("SELECT * FROM sales.customer");
while($row = mysql_fetch_array($query))
 $id_costumer_array_tbCustomer[] = $row['idcustomer'];
 $company_namen_customer_tbCustomer[] = $row['Company'];
// query to get all entries in the table product
$query = mysql_query("SELECT * FROM sales.product");
while($row = mysql_fetch_array($query))
        $id_product_tbProduct[] = $row['idproduct'];
        $product_description_tbProduct[] = $row['description'];
}
// query to get all entries in the table provider
$query = mysql_query("SELECT * FROM sales.provider");
while($row = mysql fetch array($query))
{
        $id_provider_array_tbprovider[] = $row['idprovider'];
        $provider_name_tbprovider[] = $row['name'];
require("disconnect.php");
echo "<html>";
echo "<meta http-equiv=\"Content-Type\" content=\"text/html; charset=utf-8\"/>";
echo "<head><title>View and edit all open orders</title></head>";
echo "<body>";
echo "<h1> View, edit all open orders and add order</h1>";
echo "";
echo "IDQuantityProductCustomerDelivery
dateDelivered";
```

```
if(count($idorder_array) != 0)
        for($i = 0; $i < count($idorder_array); $i++)</pre>
  echo "<form action = \"view all order.php\" method =\"POST\">";
  echo "";
  echo "<input name=\"idorder\" type=\"text\" border=\"0\" size=\"4\" value=\"" . $idorder_array[$i] .
"\" readonly>";
  echo "<input type = \"text\" name = \"quantity\" size = \"$size\" maxlength = \"$maxlength\" value =
\"" . $quantity_array[$i] . "\">";
  echo "<select name=\"product\" style=\"width: 145px\">";
  $found = FALSE;
  for (f = 0; f < count(fid product tbProduct); f++)
   if ($product_array[$i] == $id_product_tbProduct[$f])
    echo '<option value=' . $id_product_tbProduct[$f] . ' selected>'. "id" .
$product_description_tbProduct[$f]. '</option>';
    $found = TRUE;
    //break;
   else
    echo '<option value="' . $id_product_tbProduct[$f] . '">'.$product_description_tbProduct[$f]. '</option>';
  if ($found == FALSE)
   echo '<option selected>Select new...</option>';
  echo '</select>';
  echo "<select name=\"provider\" style=\"width: 145px\">";
  $found = False;
  for ($f = 0; $f < count($id provider array tbprovider); $f++)
   if ($provider_array[$i] == $id_provider_array_tbprovider[$f])
    echo \ 'coption \ value= "' \ . \ \$id\_provider\_array\_tbprovider \ [\$f] \ . \ '"selected>' \ . \ \$provider\_name\_tbprovider \ [\$f]
. '</option>';
    $found = TRUE;
   }
   else
    echo '<option value="' . $id_provider_array_tbprovider[$f] . "'>' . $provider_name_tbprovider[$f] .
'</option>';
   }
  if ($found == FALSE)
   echo '<option selected>Select new...</option>';
```

```
echo '</select>';
  echo "<select name=\"customer\" style=\"width: 145px\">";
  $found = False;
  for ($f = 0; $f < count($id_costumer_array_tbCustomer); $f++)
   if ($company namen customer array[$i] == $id costumer array tbCustomer[$f])
    echo '<option value="' . $id_costumer_array_tbCustomer[$f] . '"selected>'.
$company namen customer tbCustomer[$f]. '</option>';
    $found = True;
   }
   else{
    echo '<option value="' . $id_costumer_array_tbCustomer[$f] . '">'.
\verb| $company_namen_customer_tbCustomer[$f].' </ option>'; \\
  }
  if ($found == FALSE)
   echo '<option selected>Select new...</option>';
  echo '</select>';
  echo "<input type = \"text\" name = \"deliverydate\" size = \"$size\" maxlength = \"$maxlength\" value
= \"" . $deliverydate_array[$i] . "\">";
  echo "<input type=\"checkbox\" name=\"allreadydelivered\" value =\"1\"> ";
  echo "<input type=\"submit\" name=\"Update\" value=\"Update\"> ";
  echo "<input type=\"submit\" name=\"Delete\" value=\"Delete\"> ";
  echo "";
  echo "</form>";
}
}
echo "<form action = \"view_all_order.php\" method =\"POST\">";
echo "";
//echo "<input type = \"text\" name = \"quantity\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<input type = \"text\" name = \"quantity\" size = \"$size\" maxlength = \"$maxlength\">*";
echo "<select name=\"product\" style=\"width: 145px\"><option value=\"\">Select...</option>";
for ($i = 0; $i < count($id product tbProduct); $i++)
        echo '<option value="' . $id_product_tbProduct[$i] . '">';
        echo $product description tbProduct[$i];
        echo '</option>';
echo '</select>*';
echo "<select name=\"provider\" style=\"width: 145px\"><option value=\"\">Select...</option>";
for ($i = 0; $i < count($provider_name_tbprovider); $i++)</pre>
        echo '<<br/>option value=''' . $id_provider_array_tbprovider[$i] . '">' ;
        echo $provider_name_tbprovider[$i];
        echo '</option>';
echo '</select>*';
```

```
echo "<select name=\"customer\" style=\"width: 145px\"><option value=\"\">Select...</option>";
for ($i = 0; $i < count($company_namen_customer_tbCustomer); $i++)
       echo '<option value="' . $id_costumer_array_tbCustomer[$i] . "">';
       echo $company namen customer tbCustomer[$i];
       echo '</option>';
echo '</select>*';
echo "<input type = \"text\" name = \"deliverydate\" size = \"$size\" maxlength =
\"$maxlength\">*";
echo "<input type=\"submit\" name=\"Add\" value=\" Add \"> ";
echo "";
echo "";
echo "</form>";
echo "";
echo "Please fill out the mandatory fields (*)";
if (count($response_server) != 0)
{
       echo $response_server;
echo "<a href = \"index.html\">Back</a>";
echo "</body>";
echo "</html>";
```

Database Queries

All open deliveries from provider

```
<?php
require("connect.php");
$tablename = '`sales`.`provider`';
$maxlength = 50;
$size = 15;
$response server = "";
$provider_names = array();
$provider_id = array();
$quantity_array = array();
$id_product_tbProduct = array();
$product_description_tbProduct = array();
$product array = array();
$deliverydate_array = array();
$provider id post = "";
if (isset($_POST['load'])) {
        $provider_id_post = $_POST["provider"];
        $query = mysql_query("SELECT * FROM `order` inner join sales. `provider` on sales. `order`.providerid
= sales.`provider`.idprovider AND sales.`order`.delivered = '0' AND sales.`order`.providerid = '" .
```

```
$provider_id_post . "'");
        while($row = mysql_fetch_array($query))
                 $quantity_array[] = $row['quantity'];
                 $product_array[] = $row['productid'];
  $deliverydate_array[] = $row['deliverydate'];
  $Provider name select[] = $row['name'];
        }
        // query to get all values of the table product
        $query = mysql_query("SELECT * FROM sales.product");
        while($row = mysql_fetch_array($query))
                 $id product_tbProduct[] = $row['idproduct'];
                 $product description tbProduct[] = $row['description'];
        if($query != 0)
        {
                 $affected_rows = mysql_affected_rows();
                 $response_server = $response_server . "<strong>Query OK. Rows affected
$affected_rows</strong>";
        }
        else
                 $response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' .
mysql_error() . "</strong>";
        }
}
//query to get all values of the table order
$query = mysql_query("SELECT * FROM $tablename");
while($row = mysql fetch array($query))
        $provider_names[] = $row['name'];
        $provider_id[] = $row['idprovider'];
}
require("disconnect.php");
echo "<html>";
echo "<meta http-equiv=\"Content-Type\" content=\"text/html; charset=utf-8\"/>";
echo "<head><title>View all open orders from a provider</title></head>";
echo "<body>";
echo "<h1> View all open orders from a provider</h1>";
echo "</br>";
echo "<form action = \"all open deliveries from provider.php\" method =\"POST\">";
echo "<select name=\"provider\" style=\"width: 145px\"><option value=\"\">Select...</option>";
for ($i = 0; $i < count($provider_names); $i++)</pre>
        echo '<option value="' . $provider id[$i] . "">';
        echo $provider_names[$i];
        echo '</option>';
echo '</select>';
echo "<input type=\"submit\" name=\"load\" value=\" Load \"> ";
```

```
echo "</form>";
echo "</br>";
if(count($quantity_array) != 0)
       echo "";
       echo "QuantityProductDelivery date";
       for($i = 0; $i < count($quantity_array); $i++)</pre>
  echo "". $quantity_array[$i] . "";
  for ($f = 0; $f < count($id_product_tbProduct); $f++)</pre>
  if ($product_array[$i] == $id_product_tbProduct[$f])
   echo $product_description_tbProduct[$f];
   break;
  }
  }
  echo "". $deliverydate_array[$i] ."";
}
       echo "</br>";
else
if(strlen($provider_id_post) > 0){
 echo "<br> No open Orders from the Provider is found. <br>";
}
if (count($response_server) != 0)
{
       echo $response_server;
echo "<a href = \"index.html\">Back</a>";
echo "</body>";
echo "</html>";
?>
```

All orders from customer

```
<?php
require("connect.php");

$tablename = '`sales`.`order`';
$maxlength = 50;
$size = 15;

$response_server = "";
$idorder_array = array();
$quantity_array = array();
$product_array = array();
$idproduct_array = array();
$company_namen_customer_array = array();</pre>
```

```
$idcostumer_array = array();
$provider_array = array();
$idprovider_array = array();
$deliverydate_array = array();
$allready_delivered_array = array();
$company namen customer tbCustomer = array();
$company_Street_customer_tbCustomer = array();
$company_City_customer_tbCustomer = array();
$company_Zip_customer_tbCustomer = array();
$id_costumer_array_tbCustomer_or = array();
$company_namen_customer_tbCustomer_or = array();
$company_namen_customer = array();
$provider = array();
$product = array();
//$id_costumer_array_tbCustomer[] = array();
//$company_namen_customer_tbCustomer[] = array();
//$id_product_tbProduct[] = array();
//$product_description_tbProduct[] = array();
if(isset($_POST['load']))
$customer_id = $_POST["customer"];
$query = mysql_query("Select * FROM sales.`order` inner join sales.customer on sales.`order`.customerid =
customer.idcustomer where sales.`order`.customerid = "".$customer_id."';");
while($row = mysql_fetch_array($query))
{
        $idorder_array[] = $row['idorder'];
        $quantity_array[] = $row['quantity'];
        $product_array[] = $row['productid'];
        $provider_array[] = $row['providerid'];
        $deliverydate_array[] = $row['deliverydate'];
 $allready_delivered_array[] = $row['delivered'];
 $company_namen_customer_tbCustomer[] = $row['Company'];
 $company_Street_customer_tbCustomer[] = $row['Street'];
 $company_City_customer_tbCustomer[] = $row['City'];
 $company_Zip_customer_tbCustomer[] = $row['Zip'];
$response_server = "Database server response:<br>";
if($query != 0)
 $affected_rows = mysql_affected_rows();
 $response_server = $response_server . "<strong>Query OK. Rows affected $affected_rows</strong>";
else
 $response_server = $response_server . "<strong>Query FAILED. ".'Invalid query: ' . mysql_error() .
"</strong>";
}
}
//query to get all values of the table customer
$query = mysql_query("SELECT * FROM sales.customer");
```

```
while($row = mysql_fetch_array($query))
 $id_costumer_array_tbCustomer_or[] = $row['idcustomer'];
 $company_namen_customer_tbCustomer_or[] = $row['Company'];
// query to get all values of the table product
$query = mysql_query("SELECT * FROM sales.product");
while($row = mysql_fetch_array($query))
        $id product tbProduct[] = $row['idproduct'];
        $product_description_tbProduct[] = $row['description'];
}
// query to get all values of the table provider
$query = mysql query("SELECT * FROM sales.provider");
while($row = mysql fetch array($query))
        $id provider array tbprovider[] = $row['idprovider'];
        $provider_name_tbprovider[] = $row['name'];
require("disconnect.php");
echo "<html>";
echo "<meta http-equiv=\"Content-Type\" content=\"text/html; charset=utf-8\"/>";
echo "<head><title>View all orders from a Customer</title></head>";
echo "<body>";
echo "<h1> View all orders from a customer</h1>";
echo "</br>";
echo "<form action = \"all orders from customer.php\" method =\"POST\">";
echo "<select name=\"customer\" style=\"width: 145px\"><option value=\"\">Select...</option>";
for ($i = 0; $i < count($company_namen_customer_tbCustomer_or); $i++)</pre>
        echo '<option value="' . $id_costumer_array_tbCustomer_or[$i] . "">';
        echo $company_namen_customer_tbCustomer_or[$i];
        echo '</option>';
echo '</select>';
echo "<input type=\"submit\" name=\"load\" value=\" Load \"> ";
echo "</form>";
echo "</br>";
if(count($idorder_array) > 0){
 if(count($company namen customer tbCustomer) > 0){
 echo $company namen customer tbCustomer[0];
 }
 echo "</br>";
 if(count($company Street customer tbCustomer) > 0){
 echo $company_Street_customer_tbCustomer[0] . "\n";
 }
 echo "</br>";
 if(count($company_Zip_customer_tbCustomer) > 0){
 echo $company_Zip_customer_tbCustomer[0] . "\n";
```

```
if(count($company_City_customer_tbCustomer) > 0){
 echo " " .$company_City_customer_tbCustomer[0];
echo "</br>";
 echo "</br>";
 echo "";
echo "QuantityProductProviderDelivery date";
 for($i = 0; $i < count($idorder_array); $i++)</pre>
  echo "" . $quantity_array[$i] . "";
  for ($f = 0; $f < count($id_product_tbProduct); $f++)</pre>
   if ($product_array[$i] == $id_product_tbProduct[$f])
    echo $product_description_tbProduct[$f];
    break;
  }
  echo "";
  for ($f = 0; $f < count($id_provider_array_tbprovider); $f++)</pre>
  if ($provider_array[$i] == $id_provider_array_tbprovider[$f])
    echo $provider_name_tbprovider[$f];
    break;
 echo "<". $deliverydate_array[$i] . "</td>";
echo "";
if (count($response_server) != 0)
{
       echo $response_server;
echo "<a href = \"index.html\">Back</a>";
echo "</body>";
echo "</html>";
?>
```

XSL Transformation with XSLT

Clientside, Serverside and created XML file

```
<?php
$dbHost = "localhost";
$dbUser = "root";
$dbPass = "legends";
$dbName = "sales";
$console = false;</pre>
```

```
// make connection to the database server
//$con=mysqli_connect($dbHost, $dbUser, $dbPass, $dbName);
$connect = @mysql_connect($dbHost, $dbUser, $dbPass) or die("ERROR: Unable to connect
to database server!");
$selectDB = @mysql_select_db($dbName, $connect) or die("ERROR: Unable to select
$dbName!");
//require('connect.php');
if ($console) {
        $xml_trans = 'server';
        $firstname = "true";
} else {
        $xml_trans = $_GET['xml_trans'];
        $firstname = $ GET['firstname'];
}
$tablename = 'sales.customer';
$maxlength = 50;
$size = 15;
$response server = "";
$idcostumer_array = array();
$company array = array ();
$firstname_array = array();
$lastname_arry = array();
$zip_array = array();
$city_array = array();
$mail_array = array();
$query = mysql_query("SELECT * FROM $tablename");
while($row = mysql fetch array($query)) {
        $idcostumer array[] = $row['idcustomer'];
        $company_array[] = $row['Company'];
        $firstname_array[] = $row['Firstname'];
        $lastname array[] = $row['Lastname'];
        $street_array[] = $row['Street'];
        $zip_array[] = $row['Zip'];
        $city_array[] = $row['City'];
        $mail_array[] = $row['email'];
/* close connection to the database server */
@mysql_close($connect);
/* create a dom document with encoding utf8 */
$domtree = new DOMDocument('1.0', 'UTF-8');
if ($xml_trans == "client") {
        if ($firstname == 'true') {
                $xslt = $domtree->createProcessingInstruction('xml-stylesheet', 'type="text/xsl"
href="customercatalogfirstname.xsl"");
        } else {
                $xslt = $domtree->createProcessingInstruction('xml-stylesheet', 'type="text/xsl"
href="customercatalog.xsl"");
        header("Content-Type: text/xml");
        $domtree->appendChild($xslt);
}
```

```
/* create the root element of the xml tree */
$xmlRoot = $domtree->createElement("catalog");
/* append it to the document created */
$xmlRoot = $domtree->appendChild($xmlRoot);
for ($i = 0; $i < count($idcostumer_array); $i++) {</pre>
        $currentTrack = $domtree->createElement("customer");
        $currentTrack = $xmlRoot->appendChild($currentTrack);
        $currentTrack->appendChild($domtree->createElement('id',$idcostumer_array[$i]));
        $currentTrack->appendChild($domtree->createElement('company',$company array[$i]));
        $currentTrack->appendChild($domtree->createElement('firstname',$firstname array[$i]));
        $currentTrack->appendChild($domtree->createElement('lastname',$lastname_array[$i]));
        $currentTrack->appendChild($domtree->createElement('street',$street_array[$i]));
        $currentTrack->appendChild($domtree->createElement('postcode',$zip array[$i]));
        $currentTrack->appendChild($domtree->createElement('city',$city array[$i]));
        $currentTrack->appendChild($domtree->createElement('mail',$mail array[$i]));
/* get the xml printed */
if ($xml trans == "client") {
        echo $domtree->saveXML();
if ($xml_trans == "server") {
        // $xsl - XSL file
        $xsl = new DOMDocument;
        if ($firstname == "true") {
                 $xsl->load('customercatalogfirstname.xsl');
        } else {
                 $xsl->load('customercatalog.xsl');
        /* Create an XSLT processor */
        $proc = new XsltProcessor;
        $proc->importStyleSheet($xsl);
        /* Perform the transformation */
        $html = $proc->transformToXML($domtree);
        /* Output the resulting HTML */
        echo $html;
?>
```

Stylesheet

Customercatalog.xsl

```
<xsl:value-of select="company"/>

</tsl:for-each>

</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

```
Customercatalogfirstname.xsl
<?xml version="1.0" encoding="UTF-8"?>
-<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
<xsl:output omit-xml-declaration="yes" method="xml"/>
-<xsl:template match="/">
-<html>
-<body>
<h2>Customers</h2>
-
-
-
Company
Lastname
Firstname
-<xsl:for-each select="catalog/customer">
-
-
<xsl:value-of select="company"/>
-
<xsl:value-of select="lastname"/>
-
<xsl:value-of select="firstname"/>
</xsl:for-each>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

Advantages of XSLT

With the help of XSLT you are able to display the same PHP-File in different ways. So you can offer different Designs of a website with the equal initial file.