

Instituto Superior Técnico

Projeto de Base de Dados, Parte 3

Ruben Correia n°85909 Raquel Pereira n°76171 Joaquim Esteves n°77020

Grupo nº99

Turno: Quinta-feira 12:30h - 14:00h

Esforço: 100h

Prof. Gabriel Pestana

SQL

```
(a)
SELECT *
FROM posto o, espaco e
WHERE e.morada NOT IN (SELECT a.morada FROM aluga a) AND o.morada NOT IN (SELECT a.morada
FROM aluga a);
SELECT a.morada, COUNT(a.morada) AS Amount_of_reservations
FROM aluga a NATURAL JOIN edificio
GROUP BY morada
HAVING Amount_of_reservations >= (SELECT COUNT(x.numero)/2 FROM reserva x);
(c)
SELECT A.nif,COUNT(A.id) as count FROM
   (SELECT DISTINCT id, nif
   FROM user u
      NATURAL JOIN arrenda a
      NATURAL JOIN fiscaliza
      NATURAL JOIN fiscal)
   AS A
   GROUP BY nif
   HAVING count=1;
(d)
SELECT DISTINCT e.morada, o.codigo, SUM(o.tarifa)*DATEDIFF(o.data_fim, o.data_inicio) AS maxpayed
FROM paga p
   NATURAL JOIN oferta o
   NATURAL JOIN espaco e
   NATURAL JOIN aluga
WHERE YEAR(p.data) = 2016
GROUP BY e.morada;
(e)
SELECT *
FROM espacox
WHERE x.morada NOT IN
        (SELECT a.morada FROM aluga a WHERE a.numero NOT IN
               (SELECT e.numero FROM estado e WHERE e.estado NOT IN('Aceite')));
```

Triggers e Stored Procedures

(Restrições de integridade) **DELIMITER \$\$** CREATE TRIGGER ins dataOferta BEFORE INSERT ON oferta FOR EACH ROW **BEGIN** DECLARE error_message varchar(255); IF (EXISTS (select data_inicio from oferta where morada = NEW.morada AND codigo = NEW.codigo AND data inicio = NEW.data inicio)) OR (EXISTS (select data inicio from oferta where morada = NEW.morada AND codigo = NEW.codigo AND data inicio = NEW.data_inicio)) THEN set @error_message = 'Ja existe uma oferta associada a este edificio com esta data'; CALL error; END IF; END; \$\$ CREATE TRIGGER ins dataPagamento BEFORE INSERT ON paga FOR EACH ROW **BEGIN** DECLARE error_message varchar(255); IF TIMESTAMPDIFF(SECOND,(SELECT MAX(time stamp) FROM estado WHERE numero = NEW.numero), NEW.data) <0 THEN SET @error message = 'A data do pagamento tem de ser superior ao timestamp do ultimo estado'; CALL error; END IF; END; \$\$ CREATE PROCEDURE insertBuilding(IN new morada varchar(255)) BEGIN INSERT INTO edificio (morada) VALUES (new morada); END; \$\$ CREATE PROCEDURE insertSpace(IN new_morada varchar(255), IN new_codigo varchar(255)) IF (EXISTS (SELECT morada FROM edificio where morada = new morada)) AND (EXISTS(SELECT codigo FROM alugavel where codigo = new codigo)) **THEN** INSERT INTO espaco (morada, codigo) VALUES (new_morada, new_codigo); ELSEIF (NOT EXISTS (SELECT morada FROM edificio where morada = new_morada)) **THEN**

INSERT INTO alugavel (morada, codigo, foto) VALUES (new_morada, new_codigo, 'no image');

INSERT INTO espaco (morada, codigo) VALUES (new_morada, new_codigo);

INSERT INTO edificio (morada) VALUES (new_morada);

```
ELSEIF (EXISTS (SELECT morada FROM edificio where morada = new_morada)) AND (NOT EXISTS (SELECT
codigo FROM alugavel where codigo = new codigo))
  THEN
   INSERT INTO alugavel (morada, codigo, foto) VALUES (new_morada, new_codigo, 'no image');
   INSERT INTO espaco (morada, codigo) VALUES (new morada, new codigo);
  ELSE
    CALL error;
  END IF;
END; $$
CREATE PROCEDURE insertOffer(IN new morada varchar(255), IN new codigo varchar(255), IN
new data inicio date, IN new data fim date, IN new tarifa integer)
  BEGIN
    IF EXISTS (SELECT morada, codigo FROM edificio NATURAL JOIN alugavel WHERE morada =
new morada AND codigo = new codigo)
   THEN
      INSERT INTO oferta (morada, codigo, data inicio, data fim, tarifa) VALUES (new morada,
new codigo, new data inicio, new data fim, new tarifa);
    ELSEIF NOT EXISTS (SELECT morada FROM edificio where morada = new_morada)
      INSERT INTO edificio (morada) VALUES (new morada);
      INSERT INTO alugavel (morada, codigo, foto) VALUES (new morada, new codigo, 'no image');
      INSERT INTO oferta (morada, codigo, data inicio, data fim, tarifa) VALUES (new morada,
new_codigo, new_data_inicio, new_data_fim, new_tarifa);
    ELSEIF EXISTS (SELECT morada, codigo FROM edificio NATURAL JOIN alugavel WHERE morada
=new_morada AND codigo<> new_codigo)
   THEN
      INSERT INTO alugavel (morada, codigo, foto) VALUES (new morada, new codigo, 'no image');
      INSERT INTO oferta (morada, codigo, data inicio, data fim, tarifa) VALUES (new morada,
new codigo, new data inicio, new data fim, new tarifa);
    ELSE
        CALL error;
    END IF;
END; $$
CREATE PROCEDURE insertPost(INnew morada varchar(255), INnew codigo varchar(255), IN
new_codigo_espaco varchar(255))
  BEGIN
    IF EXISTS (SELECT morada FROM edificio where new morada = morada) AND
            EXISTS (SELECT codigo FROM alugavel where new codigo espaco = codigo) AND
            EXISTS (SELECT morada, codigo FROM espaco where new codigo espaco = codigo AND
new morada = morada)
    THFN
      INSERT INTO posto (morada, codigo, codigo_espaco) VALUES (new_morada, new_codigo,
new_codigo_espaco);
    ELSEIF EXISTS (SELECT morada FROM edificio where new morada = morada) AND
            EXISTS (SELECT codigo FROM alugavel where new codigo espaco = codigo) AND
            NOT EXISTS (SELECT morada, codigo FROM espaco where new_codigo_espaco = codigo
AND new morada = morada)
    THEN
      INSERT INTO espaco (morada, codigo) VALUES (new_morada, new_codigo_espaco);
      INSERT INTO posto (morada, codigo, codigo_espaco) VALUES (new_morada, new_codigo,
new_codigo_espaco);
```

```
ELSEIF EXISTS (SELECT morada FROM edificio where new morada = morada) AND
           NOT EXISTS (SELECT codigo FROM alugavel where new_codigo_espaco = codigo)
   THEN
      INSERT INTO alugavel (morada, codigo, foto) VALUES (new_morada, new_codigo_espaco, 'no
image');
      INSERT INTO alugavel (morada, codigo, foto) VALUES (new_morada, new_codigo, 'no image');
      INSERT INTO espaco (morada, codigo) VALUES (new_morada, new_codigo_espaco);
      INSERT INTO posto (morada, codigo, codigo_espaco) VALUES (new_morada, new_codigo,
new_codigo_espaco);
    ELSEIF NOT EXISTS (SELECT morada FROM edificio where new_morada = morada)
      INSERT INTO edificio (morada) VALUES (new_morada);
      INSERT INTO alugavel (morada, codigo, foto) VALUES (new morada, new codigo espaco, 'no
image');
      INSERT INTO alugavel (morada, codigo, foto) VALUES (new_morada, new_codigo, 'no image');
      INSERT INTO espaco (morada, codigo) VALUES (new_morada, new_codigo_espaco);
      INSERT INTO posto (morada, codigo, codigo_espaco) VALUES (new_morada, new_codigo,
new_codigo_espaco);
   ELSE
        CALL error;
    END IF;
END; $$
DELIMITER;
```

Aplicação

O código em anexo apenas representa uma parte da aplicação php. De que apenas foi anexado a este relatório as funções que lidam directamente com a base de dados.

AdditionalFunctions.php

```
function testLogin($input username,$input nif,$input phone,$db){
  // Verify login credentials
  $DBusrn="";
  $DBphone = -1;
  //echo"Validating credentials of ". $input username."\n";
  // Get name and phone number of the given user
    $sql = "SELECT * FROM user WHERE nif=$input nif";
    $result = $db->query($sql);
    if (!$result) {
      echo("ERROR:[Could not execute this query]:($sql)");
    foreach($result as $i){
      $DBusrn = $i ["nome"];
      $DBphone = $i["telefone"];
    if ($DBusrn != $input username OR empty($DBusrn) OR $DBphone != $input phone OR $DBphone == -1) {
      echo "Invalid credentials! Exit!\n";
      echo("<formaction='login.html'>
      <input type='submit' value='Try again'/>
      </form>");
      return FALSE;
      //exit;
    echo "Valid Credentials! \n";
    //Give the session the variables
    $_SESSION['username'] = $input_username;
    $ SESSION['nif'] = $input nif;
    $global_nif = $input_nif;
    $_SESSION['phone_number'] = $input_phone;
    return TRUE;
    //<s cri pt type="text/javascript">
    // window.location.href = "cool.html";
    //</script>
    //
  catch(Exception $e) {
    echo "Invalid credentials! Exit!\n";
    echo("<form action='login.html'>
    <input type='submit' value='Try again'/>
    </form>");
    db = null;
    return FALSE;
    //exit;
 }
}
function showLoginInformation() {
         ?>
                           <!-- Metodo POST que permite a o utilizador fazer log out -->
                           <vib>
                           <form a cti on = "login.html">
```

```
<input type="submit" value="Logout" style="position: fixed; bottom: 10;</pre>
right:10"/>
                           </form>
                           </div>
                           <div>
                                     <divid="ListSpaces" style="display: inline-block;">
                                              <form a cti on = "ServerSide.php" method = "post" a ccept-
chars et="UTF-8">
                                              <input type="submit" value="ListSpaces"
name="ListSpaces">
                                     </div>
                                     <divid="ListBuildings" style="display: inline-block;">
                                              <form a cti on="ServerSide.php" method="post" a ccept-
chars et="UTF-8">
                                              <input type="submit" value="ListBuildings"
name="ListBuildings">
                                     </div>
                                     <divid="ListPosts"style="display:inline-block;</pre>
                                              <form a cti on = "ServerSide.php" method = "post" a ccept-
chars et="UTF-8">
                                              <input type="submit" value="ListPosts"name="ListPosts">
                                     </div>
                                     <divid="ListOffers" style="display: inline-block;">
                                              <form a cti on="ServerSide.php" method="post" a ccept-
chars et="UTF-8">
                                              <input type="submit" value="ListOffers"
name="ListOffers">
                                     </div>
                                     <divid="ListReservations" style="display:inline-block;">
                                              <form on Submit="hide('ListReservations');"
action="ServerSide.php" method="post" accept-charset="UTF-8">
                                              <input type="submit" value="ListReservations"
name="ListReservations">
                                    </div>
                           </div>
         <?php
}
function listSpaces($connection) {
  mora da varchar(50),
  codigointeger,
  */
  try{
    $sql = "SELECT * FROM espaco;";
    $result = $connection->query($sql);
    ?>
    <divid="postRemoval">
    <form a ction="ServerSide.php" method="post" accept-charset="UTF-8">
    Introduza a morada do espaço: <input type="text" name="addrToDelete" style="display:flex;align-
items:center;"/>
    Introduza o código do espaço: <input type="text" name="codeToDelete" s tyle="display:flex;align-</p>
items:center;"/>
    >
    <input type="submit" value="Delete Space" name="deleteSpace" style="display:inline;">
    <input type="submit" value="Insert Space" name="insertSpace" style="display:inline;">
    </div>
    <?php
    //echo("<script>hide('ListSpaces');</script>");
    echo("<divid=\'SpaceTable'>");
```

```
echo("\n");
   e cho("--Address---Code--\n");
   foreach($result as $row)
     echo("\n");
     echo("{$row['morada']}\n");
     echo("{$row['codigo']}\n");
     //e cho("{pow['balance']}\n");
     //echo("<a href=\"balance.php?account_number={$row['account_number']}\">Change
balance</a>\n");
     echo("\n");
   echo("\n");
   echo("</div>\n");
   //onclick="this.parentNode.style.display='none'"
   echo("<buttonstyle=\"display:inline;\"id=\"hide\"
onclick=\"hide('QueryTables');hide('hide');\">Hide</button>");
   catch(PDOException$e){
     echo("ERROR: {$e->getMessage()} ");
}
function listBuildings($connection) {
  mora da varchar(50),
  */
  try {
   $sqI = "SELECT * FROM edificio;";
   $result = $connection->query($sql);
   ?>
   <divid="buildingRemoval">
   <form a cti on="ServerSide.php" method="post" accept-charset="UTF-8">
   Introduza a morada do e difido: <input type="text" name="addrToDelete" style="display:flex;align-</p>
items:center;"/>
   >
     <input type="submit" value="Delete Building" name="deleteBuilding" style="display:inline;">
     <input type="submit" value="Insert Building" name="insertBuilding" style="display:inline;">
   </div>
   <?php
   echo("<div>");
   echo("\n");
   echo("--Address----Total Payment--\n");
               $payment = 0;
   foreach($result as $row)
     echo("\n");
     echo("{$row['morada']}\n");
                       $payment = totalPayment($connection,$row['morada']);
                       foreach($payment as $p)
       $print = $p['MAXPAID'];
       echo("$print\n");
                       \//echo("{\row['balance']}\n");
     //echo("<a href=\"balance.php?account_number={$row['account_number']}\">Change
balance</a>\n");
     echo("\n");
   echo("\n");
   echo("</div>\n");
   //onclick="this.parentNode.style.display='none'"
```

```
echo("<buttonstyle=\"display:inline;\"id=\"hide\"
onclick=\"hide('QueryTables');hide('hide');\">Hide</button>");
  catch(PDOException$e) {
   echo("ERROR: {$e->getMessage()} ");
}
function listPosts($connection) {
  /*
  mora da varchar(50),
  codigointeger,
  codigo_espacointeger,
  */
  try{
   $sqI = "SELECT * FROM posto;";
   $result = $connection->query($sql);
   ?>
   <divid="postRemoval">
   <form action="ServerSide.php" method="post" accept-charset="UTF-8">
    Introduza a morada do posto: <input type="text" name="addrTo Delete" style="display:flex;align-
items:center;"/>
    Introduza o código do posto: <i nput type="text" name="codeToDelete" style="display:flex;align-</p>
items:center;"/>
                Introduza o código do espaço: <input type = "text" name = "codeSpaceToDelete"</p>
style="display:flex;align-items:center;"/>
    <input type="submit" value="Delete Post" name="deletePost" style="display:inline;">
   <input type="submit" value="Insert Post" name="insertPost" style="display:inline;">
    </div>
   <?php
   echo("<div>");
   echo("\n");
   echo("--Address----Code----Space Code--\n");
   foreach($result as $row)
     echo("\n");
     echo("{$row['morada']}\n");
     e \, cho("<\!td>\!\{\prow['codigo']\}<\!/td>\!\!\!\ 'n");
     echo("{$row['codigo_espaco']}\n");
     balance</a>\n");
     echo("\n");
   }
   echo("\n");
   echo("</div>\n");
   //onclick="this.parentNode.style.display='none'"
   echo("<buttonstyle=\"display:inline;\"id=\"hide\"
onclick=\"hide('QueryTables');hide('hide');\">Hide</button>");
  catch(PDOException $e) {
    echo("ERROR: {$e->getMessage()} ");
}
function listReservations($connection){
numero integer,
```

```
try {
    $sql = "SELECT * FROM a luga;";
    $result = $connection->query($sql);
    echo("<div>");
    echo("\n");
    echo("--Address ----Code----Start Date----NIF-----Reservation
Number-\n");
    foreach($result as $row)
    {
      echo("\n");
      echo("{$row['morada']}\n");
                         echo("{$row['codigo']}\n");
                         echo("{$row['data inicio']}\n");
                         echo("{$row['nif']}\n");
                         echo("{$row['numero']}\n");
      //echo("{$row['balance']}\n");
      //echo("<a href=\"balance.php?account number={$row['account number']}\">Change
balance</a>\n");
      echo("\n");
   echo("\n");
    echo("</div>\n");
   //onclick="this.parentNode.style.display='none'"
    echo("<buttonstyle=\"display:inline;\"id=\"hide\"
onclick=\"hide('QueryTables');hide('hide');\">Hide</button>");
  catch(PDOException $e) {
    throw $e;
 }
function listOffers($connection) {
morada varchar(50),
codigointeger,
data inicio date,
data fim date,
tarifa double,
*/
 try {
    $sqI = "SELECT * FROM oferta;";
    $result = $connection->query($sql);
    ?>
    <divid="offerListing">
    <form a cti on="ServerSide.php" method="post" accept-charset="UTF-8">
    Introduza a morada da oferta: <input type="text" name="addrToDelete" s tyle="display:flex;align-</p>
items:center;"/>
    Introduza o código da oferta: <input type="text" name="codeToDelete" s tyle="display:flex;align-</p>
items:center;"/>
                 Introduza a data de inicio da oferta: <i nput type="text" name="startToDelete"</p>
style="display:flex;align-items:center;"/>
                 Introduza a data de fim da oferta: <i nput type="text" name="endToDelete"</p>
style="display:flex;align-items:center;"/>
    Introduza a tarifa da oferta: <input type="text" name="priceToDelete" style="display:flex;align-</p>
items:center;"/>
    <input type="submit" value="Delete Offer" name="deleteOffer" style="display:inline;">
    <input type="submit" value="Insert Offer" name="insertOffer" style="display:inline;">
    <input type="submit" value="List Unreserved Offers" name="seeNonReservedOffers" style="display:inline;">
    <input type="submit" value="List non-paid Offers" name="seeNonPaidOffers" style="display:inline;">
```

```
</div>
    <?php
    echo("<div>");
    echo("\n");
    echo("--Address---Code---Start-Date----Final-Date--
Tariff\n");
    foreach($result as $row)
     echo("\n");
     echo("{$row['morada']}\n");
     echo("<td>\{row['codigo']\}</td>\n");
     echo("{$row['data inicio']}\n");
     echo("{$row['data fim']}\n");
     echo("{$row['tarifa']}\n");
     //echo("<a href=\"balance.php?account number={$row['account number']}\">Change
balance</a>\n");
     echo("\n");
   echo("\n");
    echo("</div>\n");
   //onclick="this.parentNode.style.display='none'"
    echo("<buttonstyle=\"display:inline;\"id=\"hide\"
onclick=\"hide('QueryTables');hide('hide');\">Hide</button>");
  catch(PDOException$e) {
    // $connection->query("rollback;");
    throw $e;
 }
//PHPa) edificio
function insertBuilding($connection,$addr) {
 try {
                testValidString($addr);
                $connection->query("start transaction;");
    //$sql = "INSERT INTO edificio (morada) VALUES ('$addr')";
    $sql = "CALLinsertBuilding('$addr')";
    $connection->query($sql);
    $connection->query("commit");
    listBuildings($connection);
 catch(PDOException$e) {
                $connection->query("rollback;");
    throw $e;
 }
//PHPa) edifico
function deleteBuilding($connection,$addr){
  try {
                testValidString($addr);
                $connection->query("start transaction;");
    $sql = "DELETE FROM e dificio WHERE morada='$addr'";
    $connection->query($sql);
    $connection->query("commit");
   listBuildings($connection);
  catch(PDOException$e) {
                $connection->query("rollback;");
    throw $e;
```

```
}
//PHPa) posto
function insertPost($connection,$addr,$code,$space_code){
                  testValidString($addr);
                  testValidString($code);
                  testValidString($space_code);
                  $connection->query("start transaction;");
    $sql = "CALLinsertPost('$addr','$code','$space_code')";
    //$s qI = "INSERT INTO posto (morada, codigo, codigo_espaco) VALUES ('$addr', '$code', '$space_code')";
    $connection->query($sql);
    $connection->query("commit");
    listPosts($connection);
  catch(PDOException $e) {
                  $connection->query("rollback;");
    throw $e;
}
//PHPa) posto
function deletePost($connection,$addr,$code,$space_code) {
  try {
                  testValidString($addr);
                  testValidString($code);
                  $connection->query("start transaction;");
    $sql = "DELETE FROM posto WHERE morada='$addr' AND codigo ='$code';";
    $connection->query($sql);
    $connection->query("commit");
    listPosts($connection);
  catch(PDOException$e) {
                  $connection->query("rollback;");
    throw $e;
  }
//PHPa) es paco
function insertSpace($connection,$addr,$code){
  try {
                  testValidString($addr);
                  testValidString($code);
                  $connection->query("start transaction;");
    $sql = "CALLinsertSpace('$addr','$code')";
    $connection->query($sql);
    $connection->query("commit");
    listSpaces($connection);
  }
  catch(PDOException$e) {
                  $connection->query("rollback;");
    throw $e;
  }
//PHPa) espaco
function deleteSpace($connection,$addr,$code){
  try {
                  testValidString($addr);
                  testValidString($code);
                  $connection->query("start transaction;");
    $sql = "DELETE FROM espaco WHERE morada='$addr' AND codigo ='$code'";
    $connection->query($sql);
    $connection->query("commit");
    listSpaces($connection);
```

```
}
  catch(PDOException$e){
                  $connection->query("rollback;");
    throw $e;
  }
}
//PHPc)
function insertOffer($connection,$addr,$code,$start,$end,$price) {
  try {
                  testValidString($addr);
                  testValidString($code);
                  testValidString($start);
                  testValidString($end);
                  testValidString($price);
                  $connection->query("start transaction;");
    //$sql = "INSERT INTO oferta (morada, codigo, data inicio, data fim, tarifa) VALUES
('$addr','$code','$start','$end','$price')";
    $sql = "CALLinsertOffer('$addr','$code','$start','$end',$price)";
    $connection->query($sql);
    $connection->query("commit");
    listOffers($connection);
  catch(PDOException$e) {
                  $connection->query("rollback;");
    throw $e;
  }
}
function deleteOffer($connection,$addr,$code,$start,$end,$price) {
  try {
                  testValidString($addr);
                  testValidString($code);
                  testValidString($start);
                  testValidString($end);
                  testValidString($price);
                  $connection->query("start transaction;");
    $sql = "DELETE FROM oferta WHEREmorada='$addr' AND codigo='$code'AND data inicio='$start' AND
data fim='$end' AND tarifa=$price";
    $connection->query($sql);
    $connection->query("commit");
    listOffers($connection);
  catch(PDOException$e) {
                  $connection->query("rollback;");
    throw $e;
  }
}
//PHPd)
function createReservation($connection,$numero,$date,$addr,$code,$nif){
    $connection->query("start transaction;");
                  $timestamp = date('Y-m-d G:i:s');
                  $sql = "INSERT INTO reserva VALUES ('$numero');";
                  $sql1 = "INSERT INTO aluga VALUES ('$addr', '$code', '$date', '$nif', '$numero');";
                  $sq12 = "INSERT INTO estado VALUES ('$numero', '$timestamp', 'Aceite');";
    $connection->exec($sql);
    $connection->exec($sql1);
    $connection->exec($sql2);
    $connection->query("commit");
    seeNonReservedOffers($connection);
```

```
catch(PDOException$e){
                  $connection->query("rollback;");
    throw $e;
  }
}
function insertPayment($connection,$numero,$method) {
  try {
                  testValidString($numero);
    testValidString($method);
                  $connection->query("start transaction;");
                  $timestamp = date('Y-m-d G:i:s');
    $sq12 = "INSERTINTO paga VALUES ('$numero', '$timestamp', '$method');";
    $sq13 = "INSERTINTO estado VALUES ('$nu mero', '$timestamp', 'Paga');";
    $connection->exec($sql2);
    $connection->exec($sql3);
    $connection->query("commit");
    seeNonReservedOffers($connection);
  catch(PDOException $e) {
                  $connection->query("rollback;");
    throw $e;
  }
}
//PHPe)
function totalPayment($connection,$addr) {
  try {
                  $connection->query("start transaction;");
    $sql = "SELECT SUM(o.tarifa)*DATEDIFF(o.data fim, o.data inicio) as MAXPAID
                                     FROM paga p
                                     NATURAL JOIN of erta o
                                     NATURAL JOIN espaco e
                                     NATURAL JOIN a luga a
                                     WHERE mora da = '$a ddr' GROUP BY e.morada;";
                  $result = $connection->query($sql);
    $connection->query("commit");
    return $result;
  catch(PDOException$e) {
                  $connection->query("rollback;");
    throw $e;
                  return;
  }
         catch(Exception $e) {
                  $connection->query("rollback;");
                  throw $e;
         }
}
function seeNonReservedOffers($connection) {
  /* morada varchar(255) not null,
  codigo varchar(255) not null,
  data_inicio date not null,
  data_fim date not null,
  tarifa numeric(19,4) not null,*/
                  $connection->query("start transaction;");
    $sql = "SELECT * FROM oferta o WHERE o.morada NOT IN(SELECT morada FROM a luga)";
    $result = $connection->query($sql);
    $connection->query("commit");
```

```
echo("<script>hide('QueryTables');</script>");
       //echo("HERE'STHE FUCKING NIF"$ SESSION['nif']"");
//insertPayment(sconnection, spost['numberToInsert'], spost['dateToInsert'], spost['methodToInsert'], spost['methodToIn
ON['nif'],$_POST['addrToInsert'],$_POST['codeToInsert']);
        <divid="nonReserved">
        <form a cti on="ServerSide.php" method="post" accept-charset="UTF-8">
        Introduza a morada da oferta: <input type="text" name="addrToInsert" s tyle="display:flex;align-</p>
items:center;"/>
        Introduza o código da oferta: <input type = "text" name="codeToInsert" s tyle="display:flex;align-</p>
items:center;"/>
                                 Introduza a data de inicio da oferta: <input type="text" name="dateToInsert"</p>
style="display:flex;align-items:center;"/>
                                 Introduza o seu nif: <input type="text" name="nifToInsert" style="display:flex;align-</p>
items:center;"/>
                                  Introduza o numero da reserva: <i nput type="text" name="numberToInsert"</p>
style="display:flex;align-items:center;"/>
                                 <!--<p>Introduza a data de fim da oferta: <input type="text" name="endToDelete"
style="display:flex;align-items:center;"/>
        Introduza a tarifa da oferta: <input type="text" name="priceToDelete" style="display:flex;align-</p>
items:center;"/>
        function createReservation($connection,$numero,$date,$addr,$code,$nif) {
        -->
        >
        <input type="submit" value="create reservation" name="createReservation" style="display:inline;">
        </div>
        <?php
        echo("<div>");
        echo("\n");
        echo("--Address----Code----Start-Date----Final-Date--
Ta riff\n");
        foreach($result as $row)
           echo("\n");
           echo("{$row['morada']}\n");
           e \, cho ("<\!td>\!\{\prow['codigo']\}<\!/td>\n");
           echo("{$row['data inicio']}\n");
           echo("{$row['data fim']}\n");
           echo("\{\text{srow['tarifa']}\/\text{td}\n");
           //echo("<a href=\"balance.php?account_number={$row['account_number']}\">Change
balance</a>\n");
           echo("\n");
        }
       echo("\n");
        echo("</div>\n");
       //onclick="this.parentNode.style.display='none'"
       echo("<buttonstyle=\"display:inline;\"id=\"hide\"
onclick=\"hide('QueryTables');hide('hide');\">Hide</button>");
   }
    catch(PDOException$e) {
                                 $connection->query("rollback;");
        throw Se:
    }
}
```

```
function seeNonPaidOffers($connection) {
    try {
                                  $connection->query("start transaction;");
        $sql = "SELECT * FROM estado o WHERE o.numero NOT IN(SELECT numero FROM estado NATURAL JOIN
paga);";
        $result = $connection->query($sql);
        $connection->query("commit");
        echo("<script>hide('QueryTables');</script>");
       //echo("HERE'STHE FUCKING NIF"$_SESSION['nif']"");
//insertPayment ($connection, $$\_POST['numberToInsert'], $$\_POST['dateToInsert'], $$\_POST['methodToInsert'], $$\_SESSI('are to the context of the context o
ON['nif'],$ POST['addrToInsert'],$ POST['codeToInsert']);
        ?>
        <divid="ReservedPay">
        <form a cti on="ServerSide.php" method="post" accept-charset="UTF-8">
        Introduza o numero da oferta a pagar: <i nput type="text" name="numberToInsert" style="display:flex;align-</p>
items:center;"/>
        Introduza o metodo de pagamento: <input type="text" name="methodToInsert" style="display:flex;align-
items:center;"/>
                                  <!--<p>Introduza a data de fim da oferta: <input type="text" name="endToDelete"
style="display:flex;align-items:center;"/>
        Introduza a tarifa da oferta: <input type="text" name="priceToDelete" style="display:flex;align -</p>
items:center;"/>
        functioninsertPayment($connection,$numero,$method) {
        >
        <input type="submit" value="PAY"name="insertPayment" style="display:inline;">
        </div>
        <?php
        echo("\n");
        echo("--Number----TimeStamp-----State---\n");
        foreach($result as $row)
            echo("<tr>\n");
            echo("{$row['numero']}\n");
            echo("{$row['time stamp']}\n");
            echo("{$row['estado']}\n");
            balance</a>\n");
            echo("\n");
        }
       echo("\n");
        echo("</div>\n");
       //onclick="this.parentNode.style.display='none'"
       echo("<buttonstyle=\"display:inline;\"id=\"hide\"
onclick=\"hide('QueryTables');hide('hide');\">Hide</button>");
   }
    catch(PDOException$e){
                                  $connection->query("rollback;");
        throw $e;
    }
}
?>
```