I3302 F
Développement web côté serveur

Examen Final
17/02/2020
Durée : 120 min
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Remarque : Il est fortement conseillé de définir des fonctions PHP, là où besoin est, pour rendre le code plus clair et moins redondant, et Toutes les fonctions seront créées dans le fichier "**functions.php**". Pour MySQL utiliser les « prepared statements ».

Problème I (6 pts) [2 pts each]

1. ^\$[0-9]*\.[0-9][0-9]$	2. ^3[47][0-9]{13}$	3. ^.*\/.*\.(html|css|js|php)$

Problème II (43 pts)

Question 1.   (5 pts)

| ```php
function connect(){
    $servername = "localhost";
    $username = "root";
    $password = "";
    $dbname = "final1920s1";
    $conn = new mysqli($servername, $username, $password, $dbname);
    // Check connection
    if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
    }else{
        return $conn;
    }
}
``` | **Variables : 1**<br><br>**$con : 1.5**<br><br>**Error : 1.5**<br><br>**Return : 1** |

Question 2.   (9 pts)

| ```php
function listUsers(){
    $con = connect();
    $stmt=$con->prepare("SELECT userid,username,full_name,SUM(fees) as total FROM user U,rent R WHERE U.userid=R.userid GROUP BY U.userid");
    $stmt->execute();
    $res=$stmt->get_result();
    if($res->num_rows === 0) exit ("No rows");
    //Table
    echo "<table border=1>";
    echo "<tr><th>User ID</th><th>Username</th><th>Full Name</th><th>Total</th></tr>";
    while($row=$res->fetch_assoc()){
        echo "<tr>";
            $m="id=".$row["userid"]."&fname=".$row["full_name"];
            echo "<td>".$row["userid"]."</td>";
            echo "<td>".$row["username"]."</td>";
            echo "<td><a href='booksdetails.php?".$m."'>".$row["full_name"]."</a></td>";
            echo "<td>".$row["total"]."</td>";
        echo "</tr>";
    }
    echo "</table>";
    $stmt->close();
}
``` | **Using connect: 1**<br><br>**Prepare: 1.5**<br><br>**Execute: 1**<br><br>**Get_result: 1**<br><br>**Num_rows: 0.5**<br><br>**First row: 0.5**<br><br>**While: 1**<br><br>**Tr+tds+contents: 1.5**<br><br>**Href: 0.5**<br><br>**Close: 0.5** |

Question 3.   (7 pts)

| ```php
if(isset($_GET["id"])){
        $id=$_GET["id"];
        $fname=$_GET["fname"]
        $con=connect();
        $stmt=$con->prepare("SELECT B.title,R.rdate,R.fees FROM book B,Rent R where
B.bookid=R.bookid");
        $stmt->execute();
        $res=$stmt->get_result();
        if($res->num_rows === 0) exit ("No rows");
        echo "<table border=1>";
        echo "<tr><td colspan='3'>Books rented by ".$fname."</td></tr>";
        echo "<tr><th>Title</th><th>Date</th><th>Fees</th></tr>";
        while($row=$res->fetch_assoc()){
                echo "<tr>";
                        echo "<td>".$row["title"]."</td>";
                        echo "<td>".$row["rdate"]."</td>";
                        echo "<td>".$row["fees"]."</td>";
                echo "</tr>";
         }
        echo "</table>";
        $stmt->close();
}else{
        header("Location:exam.php");
}
``` | **Isset: 1**<br><br>**Connect: 0.5**<br><br>**Prepare: 1**<br><br>**First tr: 0.5**<br><br>**Second tr: 1**<br><br>**While: 0.5**<br><br>**Tr: 1.5**<br><br>**Else: 1** |

Question 4.   (7 pts)

| ```php
$user = array(1=>array("asalim","Ahmad Salim"),2=>array("skamal","Sarah
Kamal"),3=>array("ieldor","Issa Eldor"));
$book= array(1=>"Intro Computer",2=>"World Wide Web-Design",3=>"Visual Programming
1",4=>"Computer Organization");
//Form
echo "<form action='insert.php' method='post'>";
//Table
echo "<table border=1>";
echo "<tr><th colspan='2'>Rent a Book</th></tr>";
//User
echo "<tr><td>User:</td><td><select name='user'>";
foreach($user as $id=>$d){
        echo "<option value="".$id."">".$d[1]."</option>";
}
echo "</select></td></tr>";
//Book
echo "<tr><td>Book:</td><td><select name='book'>";
foreach($book as $id=>$d){
        echo "<option value="".$id."">".$d."</option>";
}
echo "</select></td></tr>";
//Fees
echo "<tr><td>Fees:</td><td><input type='text' name='fees'></td></tr>";
//Submit
echo "<tr><th colspan='2'><input type='submit' name='submit' value='Rent'></th></tr>";
echo "</table></form>";
``` | **Form: 1**<br><br>**Table first tr: 0.5**<br><br>**User: 2**<br><br>**Book: 2**<br><br>**Fees: 1**<br><br>**Submit: 0.5** |

Question 5.   (6 pts)

```
$user = array(1=>array("asalim","Ahmad Salim"),2=>array("skamal","Sarah Kamal"),3=>array("ieldor","Issa Eldor"));
$book= array(1=>"Intro Computer",2=>"World Wide Web-Design",3=>"Visual Programming 1",4=>"Computer
Organization");


$rent=array(1=>array(   1=>array("rdate"=>array("2019-04-15","2019-07-15"),"fees"=>array(5.5,6)),
                        2=>array("rdate"=>array("2019-05-12"),"fees"=>array(4))),

            2=>array(   1=>array("rdate"=>array("2019-05-12"),"fees"=>array(4.5)),
                        3=>array("rdate"=>array("2019-04-20"),"fees"=>array(3.2)))
        );


$lib=array("user"=>$user,"book"=>$book,"rent"=>$rent);


$_SESSION["library"]=$lib;
```

$rent: 4.5 (array parent: 0.5**, level1:** 0.5**, level2:** 0.5**, rdate,fees:** 1.5**, level3:** 1.5**)**

$lib: 1

$_SESSION: 0.5

Question 6.   (7 pts)

```
function listUsers2(){
    //Using the session library
    $lib=$_SESSION["library"];
    //Table
    echo "<table border=1>";
    echo "<tr><th>User ID</th><th>Username</th><th>Full Name</th><th>Total</th></tr>";
    foreach($lib["rent"] as $id=>$d){ // iterate on users
        $username=$lib["user"][$id][0];
        $fullname=$lib["user"][$id][1];
        $total=0;
        foreach($d as $idb=>$t){ // iterate on books
            $total+=array_sum($t["fees"]);
        }
        echo "<tr>";
            $m="id=".$id."&fname=".$fullname;
            echo "<td>".$id."</td>";
            echo "<td>".$username."</td>";
            echo "<td><a href='booksdetails.php?".$m."'>".$fullname."</a></td>";
            echo "<td>".$total."</td>";
        echo "</tr>";
    }
    echo "</table>";
}
```

Using session : 1

First tr : 1

Iterate users : 1

Get info : 1.5

$total=0 : 0.5

Calculate total : 1

Tr : 1

Bon Courage