Lab 7 DBMS

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Design a simple database for a Blood Donors Information System using PHP to access the back-end MySQL database. The database consists of a table with the following details:

Donors(Donor_ID, Aadhar_no, Name, Age, Blood_grp)

The system must contain the following modules.

- The insert module must be able to accept the Donor_ID (primary key), Aadhar number, name, age and blood group of the donor and store it in the database.

- The display module must be able to accept a blood group and display all donors having the blood group given.

Page for inserting Donor

Output

Insert Entry

Donor ID :	101
Name:	Dipesh Kafle
Age :	20
Aadhar No :	234
Blood Group:	A+
	Submit

Insert Entry

Donor ID : [   ]

Name: [   ]

Age : [   ]

Aadhar No : [   ]

Blood Group: [   ]

[Submit]

Successfully Inserted

Code

- index.php

```html
<html>
<style>
input {
    margin: 5px;
}
h2,.container{
    display: flex;
    text-align: center;
    justify-content: center;
}
input{
    width: 100%;
}

</style>
<body>
<h2> Insert Entry </h2>
<div class="container">
    <form action="index.php" method="post">
        <table>
            <tr>
            <td>Donor ID :</td><td> <input type="number" name="donor_id"><br>
            </tr>
            <tr>
            <td>Name: </td><td><input type="text" name="name"></td>
            </tr>
            <tr>
```

```html
            <td>Age :</td> <td><input type="number" name="age"></td>
        </tr>
        <tr>
            <td>Aadhar No : </td><td><input type="number" name="aadhar_no"></td>
        </tr>
        <tr>
            <td>Blood Group:</td> <td><input type="text" name="blood_group"></td>
        </tr>
    </table>
    <input type="submit" value="Submit">
    </form>
</div>

</body>
</html>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST" ){
    $servername = "localhost";
    $username = "dipesh";
    $password = "";
    $db_name = "dipesh";
    $insert_query= "INSERT INTO Donors VALUES($_POST[donor_id] ,
        $_POST[aadhar_no],
        '$_POST[name]',
        $_POST[age],
        '$_POST[blood_group]')";
    $dbconn = pg_connect("host=$servername dbname=$db_name user=$username
        password=$password ");

    if ( ! $dbconn ){
        echo "Error during connection";
    }else{
        $create_db = "CREATE TABLE IF NOT EXISTS
                Donors(Donor_ID INT PRIMARY KEY,
                        Aadhar_no INT,
                        Name VARCHAR(255),
                        Age INT,
                        Blood_grp VARCHAR(10))";
        $result = pg_query($create_db) ;
        if(!$result){
            echo "SCHEMA CREATION FAILED";
        }
        pg_free_result($result);
        $result = pg_query( $insert_query);
        if ($result)
        {
```

```php
            pg_free_result($result);
            pg_close($dbconn);
            echo "<div class=\"container\">Successfully Inserted</div>";
        }else{
            echo "INSERTION FAILED";
        }
    }
}
?>
```

Page for Displaying

Output

FILTER BY BLOOD GROUP

Blood Group: [A+_____]

[Submit]

FILTER BY BLOOD GROUP

Blood Group: [_____]

[Submit]

Donor ID	Aadhar No	Name	Age	Blood Group
1	2001	Dipesh	20	A+
101	234	Dipesh Kafle	20	A+
123	2000100101	Albert Einstein	90	A+
1234	1991	Isaac Newton	99	A+

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Code

```html
<html>
<style>

th,td {
    padding: 12px 15px;
}
td {
    justify-content: center;
    text-align: center;
}
table {
    border-collapse: collapse;
    margin: 25px 0;
    font-size: 0.9em;
    box-shadow: 0 0 20px rgba(0, 0, 0, 0.15);
}

thead tr {
    background-color: #009879;
    color: #ffffff;
    text-align: left;
}
tbody tr {
    border-bottom: 1px solid #dddddd;
}
tbody tr:last-of-type {
    border-bottom: 2px solid #009879;
}
input {
    margin: 5px;
}
h2,.container{
    display: flex;
    text-align: center;
    justify-content: center;
}
</style>
<body>

<h2>FILTER BY BLOOD GROUP</h2><br>
<div class="container">
    <form action="display.php" method="post">
        Blood Group: <input type="text" name="blood_group"><br>
    <input type="submit" value="Submit">
```

```php
</form>
</div>
</body>
</html>

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST" ){
    $servername = "localhost";
    $username = "dipesh";
    $password = "";
    $db_name = "dipesh";
    $dbconn = pg_connect("host=$servername dbname=$db_name user=$username
        password=$password ");

    $qry = "SELECT * FROM DONORS WHERE DONORS.blood_grp='$_POST[blood_group]'";

    if ( ! $dbconn ){
        echo "Error during connection";
    }else{
        $result = pg_query( $qry);
        if ($result)
        {
            // Printing results in HTML
            echo "<div class=\"container\">";
            echo "<table s>\n";
            echo "<thead><br>";
            echo " <tr><th>Donor ID</th> <th>Aadhar No</th> ";
            echo "<th>Name </th> <th>Age</th> <th>Blood Group</th></tr>";
            echo "</thead><br><tbody>";
            while ($line = pg_fetch_array($result, null, PGSQL_ASSOC)) {
                echo "\t<tr>\n";
                foreach ($line as $col_value) {
                    echo "\t\t<td>$col_value</td>\n";
                }
                echo "\t</tr>\n";
            }
            echo "</tbody>";
            echo "</table>\n";
            echo "</div>";

            pg_free_result($result);
            pg_close($dbconn);
        }else{
            echo "INSERTION FAILED";
        }
    }
```

```
}
?>
```

More Outputs, Showing state of the db
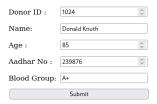
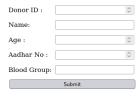- Initial entries of all A+ donors

FILTER BY BLOOD GROUP

Blood Group: [   ]

[Submit]

Donor ID	Aadhar No	Name	Age	Blood Group
1	2001	Dipesh	20	A+
101	234	Dipesh Kafle	20	A+
123	2000100101	Albert Einstein	90	A+
1234	1991	Isaac Newton	99	A+
10001	1234	Abcd EFgh	21	A+

- Inserting an entry into DB with A+ blood group

Insert Entry

Donor ID : [1024]

Name: [Donald Knuth]

Age : [85]

Aadhar No : [239876]

Blood Group: [A+]

[Submit]

- After the entry was inserted

Insert Entry

Donor ID :   [⇕]

Name: [   ]

Age :   [⇕]

Aadhar No :   [⇕]

Blood Group: [   ]

[Submit   ]

Successfully Inserted

- A+ donors after adding a new entry

FILTER BY BLOOD GROUP

Blood Group: [   ]

[Submit]

Donor ID	Aadhar No	Name	Age	Blood Group
1	2001	Dipesh	20	A+
101	234	Dipesh Kafle	20	A+
123	2000100101	Albert Einstein	90	A+
1234	1991	Isaac Newton	99	A+
10001	1234	Abcd EFgh	21	A+
1024	239876	Donald Knuth	85	A+