

Name: Piyusha Rajendra Supe

Enrolment Number: **23CO315**

Web Technology Practical 7

Title: Build a dynamic web application using PHP and MySQL.

- a. Create database tables in MySQL and create connection with PHP.
 - b. Create the add, update, delete and retrieve functions in the PHP web app interacting with MySQL database

Let us create a database first:

Employee_info.sql

```
CREATE DATABASE IF NOT EXISTS company;
```

USE company;

```
CREATE TABLE IF NOT EXISTS employees (
```

id INT AUTO_INCREMENT PRIMARY KEY,

name VARCHAR(100),

mobile VARCHAR(15),

address TEXT

status ENIUM("

department VARCHAR(100)

The database structure will look like as follows:

The screenshot shows the phpMyAdmin interface for the 'company' database. The left sidebar lists databases and tables, with 'employees' selected. The main area displays the 'employees' table with the following data:

	id	name	mobile	address	status	department
<input type="checkbox"/>	1	Piyusha	9876543210	Pune, Maharashtra		HR
<input type="checkbox"/>	2	Chinmay	9123456780	Kanyakumari, Maharashtra		IT
<input type="checkbox"/>	3	Mayank	9001122334	Mumbai, Maharashtra		Finance
<input type="checkbox"/>	4	Chaitanya	9988776655	Nashik, Maharashtra		Marketing
<input type="checkbox"/>	5	Sanika	9011223344	Aurangabad, Maharashtra		Operations

Below the table, there are buttons for 'Check all', 'With selected:', 'Edit', 'Copy', 'Delete', and 'Export'. The bottom navigation bar includes links for 'Console', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'.

The HTML, CSS and PHP code is combined in one file:

Employee_system.php

```
<?php

// Database connection

$conn = new mysqli("localhost", "root", "", "company");

if ($conn->connect_error) {

    die("Connection failed: " . $conn->connect_error);

}

// Insert or Update

if ($_SERVER['REQUEST_METHOD'] === 'POST') {

    $name = $_POST['name'];

    $mobile = $_POST['mobile'];

    $address = $_POST['address'];

    $status = $_POST['status'];

    $department = $_POST['department'];



    if (isset($_POST['update_id']) && !empty($_POST['update_id'])) {

        $id = intval($_POST['update_id']);

        $sql = "UPDATE employees SET name='$name', mobile='$mobile', address='$address', status='$status',
               department='$department' WHERE id=$id";

    } else {

        $sql = "INSERT INTO employees (name, mobile, address, status, department)
               VALUES ('$name', '$mobile', '$address', '$status', '$department')";

    }

    $conn->query($sql);

    header("Location: employee_system.php");

    exit();

}

// Delete

if (isset($_GET['delete'])) {
```

```
$id = $_GET['delete'];
$conn->query("DELETE FROM employees WHERE id=$id");
header("Location: employee_system.php");
exit();
}

// Fetch for update
$updateData = null;
if (isset($_GET['edit'])) {
    $id = $_GET['edit'];
    $result = $conn->query("SELECT * FROM employees WHERE id=$id");
    $updateData = $result->fetch_assoc();
}
?>

<!DOCTYPE html>
<html>
<head>
    <title>Prestine Purchases - Employee Data System</title>
    <style>
        body {
            background-color: #f4f6f9;
            margin: 0;
            padding: 0;
        }
        header {
            background-color:rgb(236, 175, 221);
            color: Black;
            padding: 20px;
            text-align: center;
            font-size: 28px;
        }
    </style>

```

```
font-weight: bold;  
}  
.container {  
padding: 20px;  
max-width: 1000px;  
margin: auto;  
}  
form {  
background-color: white;  
padding: 20px;  
border-radius: 12px;  
box-shadow: 0 0 10px #ccc;  
margin-bottom: 30px;  
}  
input, select, textarea {  
width: 100%;  
padding: 8px;  
margin: 8px 0 20px 0;  
border: 1px solid #ccc;  
border-radius: 6px;  
}  
button {  
padding: 10px 20px;  
background-color:rgb(128, 0, 85);  
color: white;  
border: none;  
border-radius: 6px;  
cursor: pointer;  
}  
button:hover {  
background-color:rgb(172, 133, 187);  
}
```

```
table {  
    width: 100%;  
    border-collapse: collapse;  
    background: white;  
    border-radius: 8px;  
    overflow: hidden;  
    box-shadow: 0 0 8px #ccc;  
}  
  
th, td {  
    padding: 12px;  
    border-bottom: 1px solid #eee;  
    text-align: left;  
}  
  
th {  
    background-color:rgb(236, 175, 221);  
    color: black;  
}  
  
.action-buttons a {  
    text-decoration: none;  
    color: white;  
    padding: 6px 12px;  
    border-radius: 4px;  
    margin-right: 6px;  
}  
  
.edit-btn {  
    background-color: #28a745;  
}  
  
.delete-btn {  
    background-color: #dc3545;  
}  
  
.add-btn {  
    display: inline-block;
```

```

margin-top: 20px;
text-decoration: none;
background-color:rgb(24, 58, 247);
color: white;
padding: 10px 16px;
border-radius: 6px;
}

</style>

</head>
<body>
<header>Prestine Purchases by Piyusha – Employee Data System</header>
<div class="container">
<form method="POST" action="employee_system.php">
<h3><?= $updateData ? 'Update Employee' : 'Add New Employee' ?></h3>
<input type="hidden" name="update_id" value="<?= $updateData['id'] ?? " ?>">
<label>Name</label>
<input type="text" name="name" required value="<?= $updateData['name'] ?? " ?>">

<label>Mobile</label>
<input type="text" name="mobile" required value="<?= $updateData['mobile'] ?? " ?>">

<label>Address</label>
<textarea name="address" required><?= $updateData['address'] ?? " ?></textarea>

<label>Status</label>
<select name="status">
<option value="Working" <?= (isset($updateData['status']) && $updateData['status'] == 'Working') ?
'selected' : " ?>>Working</option>
<option value="On Leave" <?= (isset($updateData['status']) && $updateData['status'] == 'On Leave') ?
'selected' : " ?>>On Leave</option>
</select>

<label>Department</label>

```

```

<input type="text" name="department" required value="<?= $updateData['department'] ?? " ?>">

<button type="submit"><?= $updateData ? 'Update Employee' : 'Add Employee' ?></button>
</form>

<h3>Employee List</h3>
<table>
<tr>
<th>Name</th>
<th>Mobile</th>
<th>Address</th>
<th>Status</th>
<th>Department</th>
<th>Actions</th>
</tr>
<?php
$result = $conn->query("SELECT * FROM employees ORDER BY id DESC");
while ($row = $result->fetch_assoc()):
?>
<tr>
<td><?= htmlspecialchars($row['name']) ?></td>
<td><?= htmlspecialchars($row['mobile']) ?></td>
<td><?= htmlspecialchars($row['address']) ?></td>
<td><?= htmlspecialchars($row['status']) ?></td>
<td><?= htmlspecialchars($row['department']) ?></td>
<td class="action-buttons">
<a href="?edit=<?= $row['id'] ?>" class="edit-btn">Edit</a>
<a href="?delete=<?= $row['id'] ?>" class="delete-btn" onclick="return confirm('Delete this employee?')">Delete</a>
</td>
</tr>
<?php endwhile; ?>
</table>

```

```

<a href="employee_system.php" class="add-btn">+ Add New Employee</a>
</div>
</body>
</html>

```

The output is as follows:

The screenshot shows a web application interface. At the top, a pink header bar displays the title "Prestine Purchases by Piyusha – Employee Data System". Below the header, there are two main sections: "Add New Employee" and "Employee List".

Add New Employee: This section contains input fields for Name, Mobile, Address, Status (with a dropdown menu showing "Working"), and Department (with a dropdown menu showing "IT"). A "Add Employee" button is located at the bottom of this form.

Employee List: This section displays a table with columns: Name, Mobile, Address, Status, Department, and Actions. The table contains five rows of data, each with edit and delete buttons. The data is as follows:

Name	Mobile	Address	Status	Department	Actions
Sanika	9011223344	Aurangabad, Maharashtra	Operations	Edit Delete	
Chaitanya	9988776655	Nashik, Maharashtra	Marketing	Edit Delete	
Mayank	9001122334	Mumbai, Maharashtra	Finance	Edit Delete	
Chinmay	9123456780	Kanayakumari, Maharashtra	IT	Edit Delete	
Piyusha	9876543210	Pune, Maharashtra	HR	Edit Delete	

At the bottom of the "Employee List" section is a blue "Add New Employee" button.

Inserting new employee:

This screenshot shows a browser window with the URL "localhost/employee%20info/employee_system.php". The page title is "Prestine Purchases by Piyusha – Employee Data System". The "Add New Employee" form is visible, containing the following data:

- Name: Ashley
- Mobile: 08779898989
- Address: California
- Status: Working
- Department: IT

The "Add Employee" button is at the bottom of the form. Below the form, a link "Employee List" is visible. The browser's taskbar and system tray are also shown at the bottom.

Employee List

Name	Mobile	Address	Status	Department	Actions	
Ashley	08779898989	California	Working	IT	<button>Edit</button>	<button>Delete</button>
Sanika	9011223344	Aurangabad, Maharashtra		Operations	<button>Edit</button>	<button>Delete</button>
Chaitanya	9988776655	Nashik, Maharashtra		Marketing	<button>Edit</button>	<button>Delete</button>
Mayank	9001122334	Mumbai, Maharashtra		Finance	<button>Edit</button>	<button>Delete</button>
Chinmay	9123456780	Kanyakumari, Maharashtra		IT	<button>Edit</button>	<button>Delete</button>
Piyusha	9876543210	Pune, Maharashtra		HR	<button>Edit</button>	<button>Delete</button>

Updating:

Prestine Purchases by Piyusha – Employee Data System

Update Employee

Name: Ashley

Mobile: 08779898989

Address: New Zealand

Status: Working

Department: IT

Update Employee

Information is updated:

Employee List

Name	Mobile	Address	Status	Department	Actions	
Ashley	08779898989	New Zealand	Working	IT	<button>Edit</button>	<button>Delete</button>
Sanika	9011223344	Aurangabad, Maharashtra	On Leave	Operations	<button>Edit</button>	<button>Delete</button>
Chaitanya	9988776655	Nashik, Maharashtra	On Leave	Marketing	<button>Edit</button>	<button>Delete</button>
Mayank	9001122334	Mumbai, Maharashtra	Working	Finance	<button>Edit</button>	<button>Delete</button>
Chinmay	9123456780	Kanyakumari, Maharashtra	Working	IT	<button>Edit</button>	<button>Delete</button>
Piyusha	9876543210	Pune, Maharashtra	Working	HR	<button>Edit</button>	<button>Delete</button>

+ Add New Employee

Deletion:

Name	Mobile	Address	Status	Department	Actions
Ashley	08779899899	New Zealand	Working	IT	<button>Edit</button> <button>Delete</button>
Sanika	9011223344	Aurangabad, Maharashtra	On Leave	Operations	<button>Edit</button> <button>Delete</button>
Chaitanya	9988776655	Nashik, Maharashtra	On Leave	Marketing	<button>Edit</button> <button>Delete</button>
Mayank	9001122334	Mumbai, Maharashtra	Working	Finance	<button>Edit</button> <button>Delete</button>
Chinmay	9123456780	Kanyakumari, Maharashtra	Working	IT	<button>Edit</button> <button>Delete</button>
Piyusha	9876543210	Pune, Maharashtra	Working	HR	<button>Edit</button> <button>Delete</button>

The entry is deleted:

Name	Mobile	Address	Status	Department	Actions
Sanika	9011223344	Aurangabad, Maharashtra	On Leave	Operations	<button>Edit</button> <button>Delete</button>
Chaitanya	9988776655	Nashik, Maharashtra	On Leave	Marketing	<button>Edit</button> <button>Delete</button>
Mayank	9001122334	Mumbai, Maharashtra	Working	Finance	<button>Edit</button> <button>Delete</button>
Chinmay	9123456780	Kanyakumari, Maharashtra	Working	IT	<button>Edit</button> <button>Delete</button>
Piyusha	9876543210	Pune, Maharashtra	Working	HR	<button>Edit</button> <button>Delete</button>

Conclusion: Thus I have successfully completed and created an application using PHP which adds, updates, deletes the information through a PHP interface using mysql database.