

ASSIGNMENT NO.4

Develop a Servlet application to delete information of employee from database .

deleteEmployee.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Delete Employee</title>
<style>
  body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 20px;
    background-color: #f5f5f5;
  }
  .container {
    max-width: 500px;
    margin: 0 auto;
    background-color: white;
    padding: 20px;
    border-radius: 8px;
    box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
  }
  h1 {
    color: #333;
    text-align: center;
    margin-bottom: 20px;
  }
  .form-group {
    margin-bottom: 15px;
```

```
}
```

```
label {
```

```
    display: block;
```

```
    margin-bottom: 5px;
```

```
    font-weight: bold;
```

```
}
```

```
input[type="text"] {
```

```
    width: 100%;
```

```
    padding: 10px;
```

```
    border: 1px solid #ddd;
```

```
    border-radius: 4px;
```

```
    box-sizing: border-box;
```

```
}
```

```
button {
```

```
    background-color: #dc3545;
```

```
    color: white;
```

```
    padding: 10px 15px;
```

```
    border: none;
```

```
    border-radius: 4px;
```

```
    cursor: pointer;
```

```
    font-size: 16px;
```

```
    width: 100%;
```

```
}
```

```
button: hover {
```

```
    background-color: #c82333;
```

```
}
```

```
.message {
```

```
    padding: 10px;
```

```
    margin-top: 15px;
```

```
    border-radius: 4px;
```

```
    text-align: center;
```

```
    display: none;
```

```
}
```

```

.error {
    background-color: #f8d7da;
    color: #721c24;
    border: 1px solid #f5c6cb;
}

.success {
    background-color: #d4edda;
    color: #155724;
    border: 1px solid #c3e6cb;
}
</style>
</head>
<body>
<div class="container">
    <h1>Delete Employee Record</h1>

    <div id="errorMessage" class="message error">
        Error: Employee with ID <span id="errorId"></span> not found.
    </div>

    <div id="successMessage" class="message success">
        Employee with ID <span id="successId"></span> has been successfully deleted.
    </div>

    <form id="deleteForm" action="deleteEmployee" method="POST">
        <div class="form-group">
            <label for="empld">Employee ID:</label>
            <input type="text" id="empld" name="empld" required>
        </div>
        <button type="submit" onclick="return confirmDeletion()">Delete Employee</button>
    </form>
</div>

```

<script>

```
function confirmDeletion() {  
    const empld = document.getElementById('empld').value;  
  
    if (!empld) {  
        alert('Please enter an Employee ID');  
  
        return false;  
    }  
  
    return confirm(`Are you sure you want to delete Employee with ID: ${empld}?`);  
}
```

// Function to get URL parameters

```
function getUrlParams() {  
    const params = {};  
  
    const queryString = window.location.search;  
  
    const urlParams = new URLSearchParams(queryString);  
  
    params.success = urlParams.get('success');  
    params.error = urlParams.get('error');  
    params.empld = urlParams.get('empld');  
  
    return params;  
}
```

// On page load, check for messages in URL

```
window.onload = function() {  
    const params = getUrlParams();  
  
    if (params.success === 'true') {  
        document.getElementById('successId').textContent = params.empld;  
        document.getElementById('successMessage').style.display = 'block';  
    }  
}
```

```

        if (params.error === 'true') {
            document.getElementById('errorId').textContent = params.emplId;
            document.getElementById('errorMessage').style.display = 'block';
        }
    };
</script>
</body>
</html>

```

- **DeleteEmployeeServlet.java**

```

package employeeDeletion;

import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/deleteEmployee")
public class DeleteEmployeeServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;

    // Database connection parameters - update these with your database details
    private static final String DB_URL = "jdbc:mysql://localhost:3306/kit";
    private static final String DB_USER = "root";

```

```
private static final String DB_PASSWORD = "root";
```

```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
```

```
    throws ServletException, IOException {
```

```
    String empId = request.getParameter("empId");
```

```
    Connection conn = null;
```

```
    PreparedStatement pstmt = null;
```

```
    int rowsAffected = 0;
```

```
    try {
```

```
        // Load MySQL JDBC Driver
```

```
        Class.forName("com.mysql.cj.jdbc.Driver");
```

```
        // Establish database connection
```

```
        conn = DriverManager.getConnection(DB_URL, DB_USER, DB_PASSWORD);
```

```
        // Prepare SQL DELETE statement
```

```
        String sql = "DELETE FROM employees WHERE EmployeeID = ?";
```

```
        pstmt = conn.prepareStatement(sql);
```

```
        pstmt.setString(1, empId);
```

```
        // Execute the delete operation
```

```
        rowsAffected = pstmt.executeUpdate();
```

```
    } catch (ClassNotFoundException e) {
```

```
        e.printStackTrace();
```

```
        // Handle error appropriately
```

```
        response.sendRedirect("deleteEmployee.html?error=true&empId=" + empId);
```

```
        return;
```

```
    } catch (SQLException e) {
```

```
        e.printStackTrace();
```

```

        // Handle error appropriately
        response.sendRedirect("deleteEmployee.html?error=true&empId=" + empId);
        return;
    } finally {
        // Close resources
        try {
            if (pstmt != null) pstmt.close();
            if (conn != null) conn.close();
        } catch (SQLException e) {
            e.printStackTrace();
        }
    }

    // Check if deletion was successful
    if (rowsAffected > 0) {
        // Redirect with success message
        response.sendRedirect("deleteEmployee.html?success=true&empId=" + empId);
    } else {
        // Redirect with error message
        response.sendRedirect("deleteEmployee.html?error=true&empId=" + empId);
    }
}

protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    // Redirect GET requests to the form
    response.sendRedirect("deleteEmployee.html");
}
}

```

```
MySQL 8.0 Command Line Cli  x  +  v

mysql> create database kit
-> use kit;
-> create database kit;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'u
se kit
create database kit' at line 2
mysql> create database kit;
Query OK, 1 row affected (0.06 sec)

mysql> use kit;
Database changed
mysql> CREATE TABLE employees (
-> EmployeeID INT PRIMARY KEY,
-> FirstName VARCHAR(50),
-> LastName VARCHAR(50),
-> Department VARCHAR(50),
-> Salary DECIMAL(10, 2)
-> );
Query OK, 0 rows affected (0.07 sec)

mysql> insert into employees values(1,riya,patil,cse,1200);
ERROR 1054 (42S22): Unknown column 'riya' in 'field list'
mysql> INSERT INTO employees (EmployeeID, FirstName, LastName, Department, Salary) VALUES
-> (101, 'Rajesh', 'Patil', 'HR', 55000.00),
-> (102, 'Sunita', 'Deshmukh', 'Finance', 62000.00),
-> (103, 'Vikram', 'Pawar', 'IT', 75000.00),
-> (104, 'Priya', 'Joshi', 'Marketing', 58000.00),
-> (105, 'Sanjay', 'Kulkarni', 'Operations', 65000.00);
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> desc employees;
-> desc employees;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'd
esc employees' at line 2
mysql> desc employees;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| EmployeeID | int       | NO   | PRI | NULL    |      |
+-----+-----+-----+-----+-----+-----+
```

```
MySQL 8.0 Command Line Cli  x  +  v

Records: 5 Duplicates: 0 Warnings: 0

mysql> desc employees;
-> desc employees;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'd
esc employees' at line 2
mysql> desc employees;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| EmployeeID | int       | NO   | PRI | NULL    |      |
| FirstName  | varchar(50) | YES  |     | NULL    |      |
| LastName   | varchar(50) | YES  |     | NULL    |      |
| Department | varchar(50) | YES  |     | NULL    |      |
| Salary     | decimal(10,2) | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.05 sec)

mysql> select* from employees;
+-----+-----+-----+-----+-----+
| EmployeeID | FirstName | LastName | Department | Salary |
+-----+-----+-----+-----+-----+
| 101 | Rajesh | Patil | HR | 55000.00 |
| 102 | Sunita | Deshmukh | Finance | 62000.00 |
| 103 | Vikram | Pawar | IT | 75000.00 |
| 104 | Priya | Joshi | Marketing | 58000.00 |
| 105 | Sanjay | Kulkarni | Operations | 65000.00 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select* from employees;
+-----+-----+-----+-----+-----+
| EmployeeID | FirstName | LastName | Department | Salary |
+-----+-----+-----+-----+-----+
| 103 | Vikram | Pawar | IT | 75000.00 |
| 104 | Priya | Joshi | Marketing | 58000.00 |
| 105 | Sanjay | Kulkarni | Operations | 65000.00 |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```


