**Objective :** Create employee\_master table and check if user is authenticated or not by login module and set appropriate session. Every time  
whenver user loged in the last Access Time should be shown to user. give logout link and destory the session attributes and redirect  
the user to again login page. (JDBC-JSP)

**DB.jsp**

<%@ page import="java.sql.\*" %>

<%

String url = "jdbc:mysql://localhost:3306/aj\_practical";

String user = "root";

String pass = "";

Connection con = null;

try {

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

con = DriverManager.getConnection(url, user, pass);

application.setAttribute("dbConnection", con);

} catch (Exception e) {

out.println("Database connection error: " + e);

}

%>

**Authanticate.jsp**

<%@ page import="java.sql.\*, java.text.\*" %>

<jsp:include page="db.jsp" />

<%

String uname = request.getParameter("username");

String pwd = request.getParameter("password");

Connection con = (Connection) application.getAttribute("dbConnection");

PreparedStatement ps = con.prepareStatement("SELECT \* FROM employee\_master WHERE username=? AND password=?");

ps.setString(1, uname);

ps.setString(2, pwd);

ResultSet rs = ps.executeQuery();

if (rs.next()) {

String lastAccess = rs.getString("last\_access\_time");

// Store in session

session.setAttribute("username", uname);

session.setAttribute("lastAccessTime", lastAccess);

// Update last access time

PreparedStatement updateStmt = con.prepareStatement("UPDATE employee\_master SET last\_access\_time=NOW() WHERE username=?");

updateStmt.setString(1, uname);

updateStmt.executeUpdate();

response.sendRedirect("welcome.jsp");

} else {

out.println("<h3>Invalid Username or Password</h3>");

out.println("<a href='login.jsp'>Try Again</a>");

}

%>

**LOGIN.jsp**

<%@ page session="false" %>

<html>

<head><title>Login</title></head>

<body>

<h2>Login</h2>

<form method="post" action="authenticate.jsp">

Username: <input type="text" name="username" required><br><br>

Password: <input type="password" name="password" required><br><br>

<input type="submit" value="Login">

</form>

</body>

</html>

**Welcome.jsp**

<%@ page import="java.util.\*" %>

<%

String uname = (String) session.getAttribute("username");

if (uname == null) {

response.sendRedirect("login.jsp");

}

%>

<html>

<head><title>Welcome</title></head>

<body>

<h2>Welcome, <%= uname %></h2>

<%

String last = (String) session.getAttribute("lastAccessTime");

if (last != null) {

%>

<p>Last Access Time: <%= last %></p>

<% } else { %>

<p>This is your first login.</p>

<% } %>

<a href="logout.jsp">Logout</a>

</body>

</html>

**OUTPUT:**



