**Problem Statement 1: Maven Repositories & Dependency**

**Management**

**DATABASE SETUP:**

CREATE DATABASE JobSeekerDB;

USE JobSeekerDB;

CREATE TABLE Jobseeker (

    id INT AUTO\_INCREMENT PRIMARY KEY,

    name VARCHAR(100),

    age INT,

    qualification VARCHAR(50),

    experience FLOAT,

    domain\_of\_expertise VARCHAR(100),

    salary\_expected FLOAT

);

//Create JobSeekerDetails.java

public class JobSeekerDetails {

    private String name;

    private int age;

    private String qualification;

    private double experience;

    private String domainOfExpertise;

    private double salaryExpected;

    // Getters and Setters

    public String getName() {

        return name;

    }

    public void setName(String name) {

        this.name = name;

    }

    public int getAge() {

        return age;

    }

    public void setAge(int age) {

        this.age = age;

    }

    public String getQualification() {

        return qualification;

    }

    public void setQualification(String qualification) {

        this.qualification = qualification;

    }

    public double getExperience() {

        return experience;

    }

    public void setExperience(double experience) {

        this.experience = experience;

    }

    public String getDomainOfExpertise() {

        return domainOfExpertise;

    }

    public void setDomainOfExpertise(String domainOfExpertise) {

        this.domainOfExpertise = domainOfExpertise;

    }

    public double getSalaryExpected() {

        return salaryExpected;

    }

    public void setSalaryExpected(double salaryExpected) {

        this.salaryExpected = salaryExpected;

    }

}

Create JobSeekerRegistration.java

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

public class JobSeekerRegistration {

    private static final String DB\_URL = "jdbc:mysql://localhost:3306/JobSeekerDB";

    private static final String DB\_USERNAME = "root";

    private static final String DB\_PASSWORD = "password";

    public void saveJobSeeker(JobSeekerDetails jobSeeker) {

        try (Connection connection = DriverManager.getConnection(DB\_URL, DB\_USERNAME, DB\_PASSWORD)) {

            String insertQuery = "INSERT INTO Jobseeker (name, age, qualification, experience, domain\_of\_expertise, salary\_expected) VALUES (?, ?, ?, ?, ?, ?)";

            PreparedStatement preparedStatement = connection.prepareStatement(insertQuery);

            preparedStatement.setString(1, jobSeeker.getName());

            preparedStatement.setInt(2, jobSeeker.getAge());

            preparedStatement.setString(3, jobSeeker.getQualification());

            preparedStatement.setDouble(4, jobSeeker.getExperience());

            preparedStatement.setString(5, jobSeeker.getDomainOfExpertise());

            preparedStatement.setDouble(6, jobSeeker.getSalaryExpected());

            preparedStatement.executeUpdate();

        } catch (Exception e) {

            e.printStackTrace();

        }

    }

    public void displayAllJobSeekers() {

        try (Connection connection = DriverManager.getConnection(DB\_URL, DB\_USERNAME, DB\_PASSWORD)) {

            String selectQuery = "SELECT \* FROM Jobseeker";

            PreparedStatement preparedStatement = connection.prepareStatement(selectQuery);

            ResultSet resultSet = preparedStatement.executeQuery();

            while (resultSet.next()) {

                System.out.println("ID: " + resultSet.getInt("id"));

                System.out.println("Name: " + resultSet.getString("name"));

                System.out.println("Age: " + resultSet.getInt("age"));

                System.out.println("Qualification: " + resultSet.getString("qualification"));

                System.out.println("Experience: " + resultSet.getDouble("experience"));

                System.out.println("Domain: " + resultSet.getString("domain\_of\_expertise"));

                System.out.println("Salary Expected: " + resultSet.getDouble("salary\_expected"));

                System.out.println("------------------------------");

            }

        } catch (Exception e) {

            e.printStackTrace();

        }

    }

}

//Create TestJobSeekerInfo.java

 import org.junit.Test;

import static org.junit.Assert.\*;

public class TestJobSeekerInfo {

    @Test

    public void testSaveAndDisplayJobSeeker() {

        JobSeekerDetails jobSeeker = new JobSeekerDetails();

        jobSeeker.setName("John Doe");

        jobSeeker.setAge(30);

        jobSeeker.setQualification("B.Tech");

        jobSeeker.setExperience(5.0);

        jobSeeker.setDomainOfExpertise("Software Engineering");

        jobSeeker.setSalaryExpected(80000.0);

        JobSeekerRegistration registration = new JobSeekerRegistration();

        registration.saveJobSeeker(jobSeeker);

        registration.displayAllJobSeekers();

        assertTrue(true); // Placeholder assertion

    }

}