**Day-14 Basics of Java**

Problem Statement 1: Maven Repositories & Dependency Management

//SQL Commands

create database jobseekerdb;

use jobseekerdb;

CREATE TABLE jobseeker (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

age INT NOT NULL,

qualification VARCHAR(255) NOT NULL,

experience INT NOT NULL,

domain\_of\_expertise VARCHAR(255),

salary\_expected DECIMAL(10, 2)

);

select \* from jobseeker;

//JobSeekerDetails.java

**package** com.jobs.register;

**public** **class** JobSeekerDetails {

**private** String name;

**private** **int** age;

**private** String qualification;

**private** **int** 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** **int** getExperience() {

**return** experience;

}

**public** **void** setExperience(**int** 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;

}

}

First, add the MySQL dependency in the pom.xml file.

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<version>8.0.26</version>

</dependency>

//JobSeekerRegistration.java

**package** com.jobs.register;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.util.Scanner;

**public** **class** JobSeekerRegistration {

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

**private** **static** **final** String ***USER*** = "root";

**private** **static** **final** String ***PASS*** = "Password@12";

**public** **static** **void** main(String[] args) {

Scanner scanner = **new** Scanner(System.***in***);

JobSeekerDetails jobSeeker = **new** JobSeekerDetails();

System.***out***.println("Enter Name:");

jobSeeker.setName(scanner.nextLine());

System.***out***.println("Enter Age:");

jobSeeker.setAge(scanner.nextInt());

scanner.nextLine(); // Consume newline

System.***out***.println("Enter Qualification:");

jobSeeker.setQualification(scanner.nextLine());

System.***out***.println("Enter Experience (in years):");

jobSeeker.setExperience(scanner.nextInt());

scanner.nextLine(); // Consume newline

System.***out***.println("Enter Domain of Expertise:");

jobSeeker.setDomainOfExpertise(scanner.nextLine());

System.***out***.println("Enter Expected Salary:");

jobSeeker.setSalaryExpected(scanner.nextDouble());

*persistJobSeekerDetails*(jobSeeker);

}

**private** **static** **void** persistJobSeekerDetails(JobSeekerDetails jobSeeker) {

**try** {

Connection connection = DriverManager.*getConnection*(***DB\_URL***, ***USER***, ***PASS***);

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

PreparedStatement statement = connection.prepareStatement(sql);

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

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

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

statement.setInt(4, jobSeeker.getExperience());

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

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

**int** rowsInserted = statement.executeUpdate();

**if** (rowsInserted > 0) {

System.***out***.println("A new job seeker was inserted successfully!");

}

} **catch** (Exception e) {

e.printStackTrace();

}

}

}

Add JUnit dependency in the pom.xml file.

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

//TestJobSeekerInfo.java

//Upload this file in src/test/java

**package** com.jobs.register;

**import** **static** org.junit.Assert.assertNotNull;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.sql.Statement;

**import** java.util.ArrayList;

**import** java.util.List;

**import** org.junit.Test;

**public** **class** TestJobSeekerInfo {

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

**private** **static** **final** String ***USER*** = "root";

**private** **static** **final** String ***PASS*** = "Password@12";

@Test

**public** **void** testGetAllJobSeekers() {

List<JobSeekerDetails> jobSeekers = **new** ArrayList<>();

**try** {

Connection connection = DriverManager.*getConnection*(***DB\_URL***, ***USER***, ***PASS***);

String sql = "SELECT \* FROM Jobseeker";

Statement statement = connection.createStatement();

ResultSet resultSet = statement.executeQuery(sql);

**while** (resultSet.next()) {

JobSeekerDetails jobSeeker = **new** JobSeekerDetails();

jobSeeker.setName(resultSet.getString("name"));

jobSeeker.setAge(resultSet.getInt("age"));

jobSeeker.setQualification(resultSet.getString("qualification"));

jobSeeker.setExperience(resultSet.getInt("experience"));

jobSeeker.setDomainOfExpertise(resultSet.getString("domain\_of\_expertise"));

jobSeeker.setSalaryExpected(resultSet.getDouble("salary\_expected"));

jobSeekers.add(jobSeeker);

}

connection.close();

} **catch** (Exception e) {

e.printStackTrace();

}

assertNotNull(jobSeekers);

}

}