**EXERCISE-3**

**Benefits of using spring data dependencies:**

Spring data repositories are designed to simplify and abstract the data access layer in spring applications. They provide a consistent approach to handling data access by offering interfaces that allow developers to perform common operations such as Create, Read, Update, and Delete (CRUD) without needing to write boilerplate code.

**Uses:**

1. No-Code Repositories
2. Reduced Boiler-plate code
3. Generated queries

**CREATING REPOSITORIES**

**EmployeeRepository.java:**

package com.example.EmployeeManagementSystem.repository;

import com.example.EmployeeManagementSystem.Employee;

import org.springframework.data.jpa.repository.JpaRepository;

import java.util.Optional;

public interface EmployeeRepository extends JpaRepository<Employee, Long> {

// Derived query method to find an employee by email

Optional<Employee> findByEmail(String email);

}

**DepartmentRepository.java:**

package com.example.EmployeeManagementSystem.repository;

import com.example.EmployeeManagementSystem.Department;

import org.springframework.data.jpa.repository.JpaRepository;

public interface DepartmentRepository extends JpaRepository<Department, Long> {

// Derived query method to find a department by name

Department findByName(String name);

}