Employee.java

package com.example.employeemanagementsystem.model;

import jakarta.persistence.\*;

import lombok.\*;

@Entity

@Table(name = "employees")

@Data

@NoArgsConstructor

@AllArgsConstructor

@Builder

public class Employee {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

@Column(nullable = false)

private String name;

@Column(unique = true, nullable = false)

private String email;

@ManyToOne

@JoinColumn(name = "department\_id")

private Department department;

}

Department.java:

package com.example.employeemanagementsystem.model;

import jakarta.persistence.\*;

import lombok.\*;

import java.util.List;

@Entity

@Table(name = "departments")

@Data

@NoArgsConstructor

@AllArgsConstructor

@Builder

public class Department {

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

@Column(nullable = false)

private String name;

@OneToMany(mappedBy = "department", cascade = CascadeType.ALL)

private List<Employee> employees;

}

EmployeeRepository.java:

package com.example.employeemanagementsystem.repository;

import com.example.employeemanagementsystem.model.Employee;

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

import org.springframework.stereotype.Repository;

import java.util.List;

@Repository

public interface EmployeeRepository extends JpaRepository<Employee, Long> {

// Find employees by exact name

List<Employee> findByName(String name);

// Find employees whose email contains a keyword

List<Employee> findByEmailContaining(String keyword);

// Find employees by their department name

List<Employee> findByDepartmentName(String departmentName);

}

DepartmentRepository.java:  
package com.example.employeemanagementsystem.repository;

import com.example.employeemanagementsystem.model.Department;

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

import org.springframework.stereotype.Repository;

@Repository

public interface DepartmentRepository extends JpaRepository<Department, Long> {

// Find a department by its name

Department findByName(String name);

}

EmployeeManagementSystemApplication.java:

package com.example.employeemanagementsystem;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class EmployeeManagementSystemApplication {

public static void main(String[] args) {

SpringApplication.run(EmployeeManagementSystemApplication.class, args);

}

}