Employee

public interface EmployeeNameAndDepartmentProjection {

String getName();

String getDepartmentName();

}

EmployeeRepository.java

import org.springframework.data.repository.query.Param;

public interface EmployeeRepository extends JpaRepository<Employee, Long> {

List<EmployeeNameAndDepartmentProjection> findByDepartmentName(@Param("departmentName") String departmentName);

}

@GetMapping("/employees/projection")

public List<EmployeeNameAndDepartmentProjection> getEmployeesByDepartment(@RequestParam String departmentName) {

return employeeRepository.findByDepartmentName(departmentName);

}

DTO for Employee Projections

public class EmployeeDTO {

private String name;

private String departmentName;

public EmployeeDTO(String name, String departmentName) {

this.name = name;

this.departmentName = departmentName;

}

// Getters and setters

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getDepartmentName() {

return departmentName;

}

public void setDepartmentName(String departmentName) {

this.departmentName = departmentName;

}

}

EmployeeRepository.java

@Query("SELECT new com.example.employeemanagementsystem.dto.EmployeeDTO(e.name, d.name) " +

"FROM Employee e JOIN e.department d WHERE d.name = :departmentName")

List<EmployeeDTO> findEmployeeDTOsByDepartmentName(@Param("departmentName") String departmentName);

@GetMapping("/employees/dto")

public List<EmployeeDTO> getEmployeeDTOsByDepartment(@RequestParam String departmentName) {

return employeeRepository.findEmployeeDTOsByDepartmentName(departmentName);

}

public interface EmployeeNameAndDepartmentProjection {

String getName();

@Value("#{target.department.name + ' - ' + target.name}")

String getDepartmentAndEmployeeName();

}

@GetMapping("/employees/projection/custom")

public List<EmployeeNameAndDepartmentProjection> getEmployeesWithCustomProjection(@RequestParam String departmentName) {

return employeeRepository.findByDepartmentName(departmentName);

}