**Spring Data JPA - Quick Example**

## **Objective:**

Demonstrate how to build a Spring Boot application using Spring Data JPA with H2 database, including basic setup and a working CRUD example.

**Configure application.properties**

spring.datasource.url=jdbc:h2:mem:testdb  
 spring.datasource.driverClassName=org.h2.Driver  
 spring.datasource.username=sa  
 spring.datasource.password=  
  
 spring.jpa.database-platform=org.hibernate.dialect.H2Dialect  
 spring.jpa.hibernate.ddl-auto=update  
 spring.h2.console.enabled=true

## **Create Entity Class**

@Entity  
 public class Student {  
 @Id  
 @GeneratedValue(strategy = GenerationType.IDENTITY)  
 private Long id;  
  
 private String name;  
 private int age;  
 }

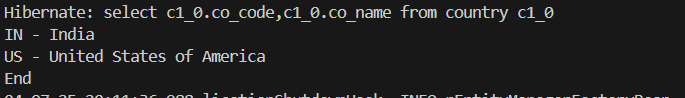
## **Create Repository Interface**

public interface StudentRepository extends JpaRepository<Student, Long> {  
 List<Student> findByName(String name);  
 }

## **Create REST Controller**

@RestController  
 @RequestMapping("/students")  
 public class StudentController {  
  
 @Autowired  
 private StudentRepository repo;  
  
 @PostMapping  
 public Student save(@RequestBody Student student) {  
 return repo.save(student);  
 }  
  
 @GetMapping  
 public List<Student> getAll() {  
 return repo.findAll();  
 }  
 }

**OUTPUT :**

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