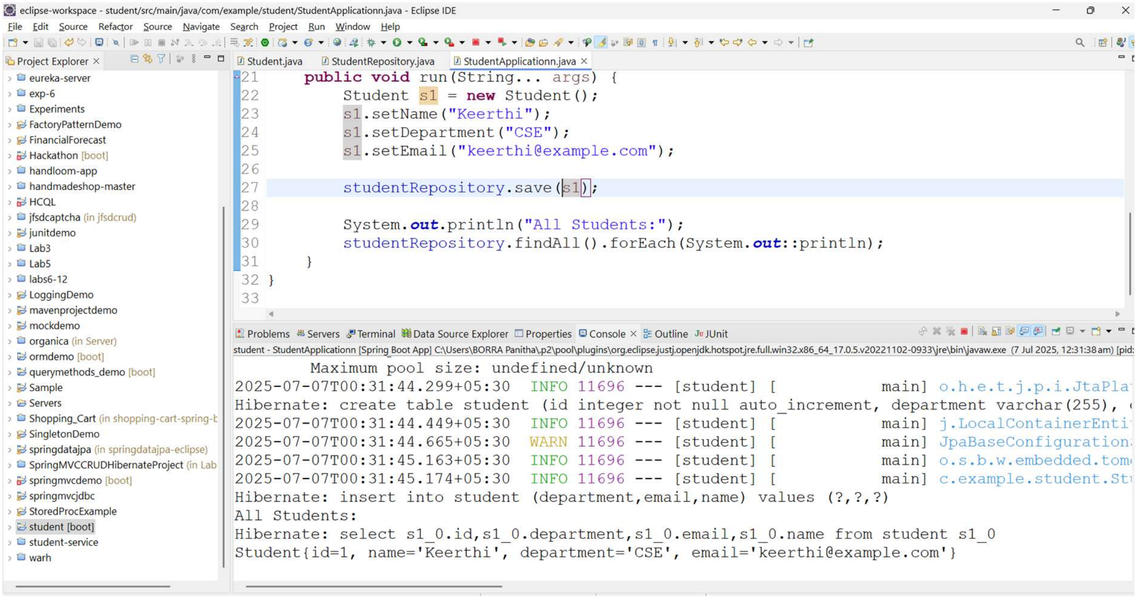
Spring Data JPA - Quick Example

```
package com.example.student.entity;


import jakarta.persistence.*;


@Entity
public class Student {
  @Id
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  private int id;


  private String name;
  private String department;
  private String email;


  public int getId() { return id; }
  public void setId(int id) { this.id = id; }


  public String getName() { return name; }
  public void setName(String name) { this.name = name; }


  public String getDepartment() { return department; }
  public void setDepartment(String department) { this.department = department; }


  public String getEmail() { return email; }
  public void setEmail(String email) { this.email = email; }
```

```
    @Override
    public String toString() {
        return "Student{" + "id=" + id + ", name='" + name + '\'' +
                ", department='" + department + '\'' + ", email='" + email + '\'' + '}';
    }
}
package com.example.student.repository;

import com.example.student.entity.Student;
import org.springframework.data.jpa.repository.JpaRepository;

public interface StudentRepository extends JpaRepository<Student, Integer> {
}
package com.example.student;

import com.example.student.entity.Student;
import com.example.student.repository.StudentRepository;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class StudentApplicationn implements CommandLineRunner {

    @Autowired
    private StudentRepository studentRepository;
    public static void main(String[] args) {
        SpringApplication.run(StudentApplication.class, args);
    }

    @Override
    public void run(String... args) {
        Student s1 = new Student();
        s1.setName("Keerthi");
        s1.setDepartment("CSE");
        s1.setEmail("keerthi@example.com");

        studentRepository.save(s1);

        System.out.println("All Students:");
        studentRepository.findAll().forEach(System.out::println);
    }
}
```

OUTPUT:



```
    public void run(String... args) {
        Student s1 = new Student();
        s1.setName("Keerthi");
        s1.setDepartment("CSE");
        s1.setEmail("keerthi@example.com");

        studentRepository.save(s1);

        System.out.println("All Students:");
        studentRepository.findAll().forEach(System.out::println);
    }
}
```

student - StudentApplicationn [Spring Boot App] C:\Users\BORRA Panitha\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.5.v20221102-0933\jre\bin\javaw.exe (7 Jul 2025, 12:31:38 am) [pid:

```
        Maximum pool size: undefined/unknown
2025-07-07T00:31:44.299+05:30  INFO 11696 --- [student] [           main] o.h.e.t.j.p.i.JtaPla
Hibernate: create table student (id integer not null auto_increment, department varchar(255), 
2025-07-07T00:31:44.449+05:30  INFO 11696 --- [student] [           main] j.LocalContainerEnti
2025-07-07T00:31:44.665+05:30  WARN 11696 --- [student] [           main] JpaBaseConfiguration
2025-07-07T00:31:45.163+05:30  INFO 11696 --- [student] [           main] o.s.b.w.embedded.tom
2025-07-07T00:31:45.174+05:30  INFO 11696 --- [student] [           main] c.example.student.St
Hibernate: insert into student (department,email,name) values (?,?,?)
All Students:
Hibernate: select s1_0.id,s1_0.department,s1_0.email,s1_0.name from student s1_0
Student{id=1, name='Keerthi', department='CSE', email='keerthi@example.com'}
```