```
Demonstrate implementation of O/R Mapping
package com.example.ormdemo.entity;
import jakarta.persistence.*;
@Entity
@Table(name = "student")
public class Student {
 @ld
 @GeneratedValue(strategy = GenerationType.IDENTITY)
 private Long id;
 @Column(nullable = false)
 private String name;
 private String department;
 @Column(unique = true)
 private String email;
 public Student() {}
 public Student(String name, String department, String email) {
   this.name = name;
   this.department = department;
   this.email = email;
```

```
}
```

}

```
public Long getId() { return id; }
 public String getName() { return name; }
 public String getDepartment() { return department; }
 public String getEmail() { return email; }
 public void setId(Long id) { this.id = id; }
 public void setName(String name) { this.name = name; }
 public void setDepartment(String department) { this.department = department; }
 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.ormdemo.repository;
import com.example.ormdemo.entity.Student;
import org.springframework.data.jpa.repository.JpaRepository;
```

```
public interface StudentRepository extends JpaRepository<Student, Long> {
}
package com.example.ormdemo;
import com.example.ormdemo.entity.Student;
import com.example.ormdemo.repository.StudentRepository;
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;
@Component
public class DataLoader implements CommandLineRunner {
  private final StudentRepository repo;
  public DataLoader(StudentRepository repo) {
   this.repo = repo;
 }
  @Override
  public void run(String... args) {
   repo.save(new Student("Keerthi", "CSE", "keerthi@example.com"));
   repo.save(new Student("Raj", "ECE", "raj@example.com"));
   System.out.println("All Students:");
   repo.findAll().forEach(System.out::println);
 }
}
OUTPUT:
```

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 🐌 Project Explorer 🗴 🕒 🥦 👸 🤻 " " 🥦 🥟 application.properties 🗓 "StudentJava 🗓 StudentRepository.java 🖟 DataLoader.java 🗴 🗓 OrmdemoApplication.java
   Lab3
                                                                       1 package com.example.ormdemo;
   □ Lab5
   □ labs6-12
                                                                      3@import com.example.ormdemo.entity.Student;
   4 import com.example.ormdemo.repository.StudentRepository;
                                                                     5 import org.springframework.boot.CommandLineRunner;
   organica (in Server)
                                                                      6 import org.springframework.stereotype.Component;
  ormdemo (boot)
    8 @Component
                                                                      9 public class DataLoader implements CommandLineRunner {

    # com.example.ormdemo.entity
    D Student.java
    G Student
    # com.example.ormdemo.repository

                                                               private final StudentRepository repo;
                                                                   13∘
                                                                                     public DataLoader(StudentRepository repo) {

    Problems 
    Servers 
    Preminal 
    Data Source Explorer □ Properties □ Console × 을 Outline Ju JUnit

                StudentRepository
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→ Ø src/main/resources

     static
templates
application.properties
src/test/java
                                                                  2025-07-06T19:33:28.085+05:30 WARN 18648 --- [ormdemo] [
                                                                                                                                                                                                                                                            main] JpaBaseConfiguration
                                                                  main] o.s.b.w.embedded.tom
     ⇒ M JRE System Library [JavaSE-17]
                                                                                                                                                                                                                                                            main] com.example.ormdemo.

    Maven Dependencies
    ⇔ src
    ⇔ target
    HELP.md
                                                                  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'} Student{id=2, name='Raj', department='ECE', email='raj@example.com'}
       mvnw
       mvnw.cmd

    pom.xml
    pom.xml
    i⇒ querymethods_demo [boot]
    i⇒ Sample
```