

Demonstrate implementation of O/R Mapping

```
package com.example.ormdemo.entity;
```

```
import jakarta.persistence.*;
```

```
@Entity
```

```
@Table(name = "student")
```

```
public class Student {
```

```
    @Id
```

```
    @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:

