```
Demonstrate writing Hibernate Query Language and Native Query
package com.example.ormdemo.entity;
import jakarta.persistence.*;
@Entity
@Table(name = "student")
public class Student {
 @ld
 @GeneratedValue(strategy = GenerationType. IDENTITY)
 private Long id;
 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;
import org.springframework.data.jpa.repository.Query;
import java.util.List;
public interface StudentRepository extends JpaRepository<Student, Long> {
```

@Query("SELECT's FROM Student's WHERE's.department = ?1")

```
List<Student> findByDepartmentHQL(String department);
```

```
@Query(value = "SELECT * FROM student WHERE department = ?1", nativeQuery =
true)
 List<Student> findByDepartmentNative(String department);
}
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.deleteAll();
```

```
repo.save(new Student("Keerthi", "CSE", "keerthi@example.com"));
  repo.save(new Student("Raj", "ECE", "raj@example.com"));
  repo.save(new Student("Anu", "CSE", "anu@example.com"));
  System.out.println("\n Students from CSE (HQL):");
  repo.findByDepartmentHQL("CSE").forEach(System.out::println);
  System.out.println("\n Students from ECE (Native SQL):");
  repo.findByDepartmentNative("ECE").forEach(System.out::println);
}
```

OUTPUT:

}

```
orkspace - ormdemo/src/main/resources/application.properties - Eclipse IDE
9 8 8 8
                                                                                                        spring.application.name=ormdemo
                                                                                                 2 spring.datasource.url=jdbc:mysql://localhost:3306/ormdb
                                                                                                  3 spring.datasource.username=root

    □ Eoggingbenio
    □ mavenprojectdemo
    □ mockdemo
    □ organica (in Server)
    □ ormdemo [boot]
    □ ormdemo [boot]
                                                                                                 4 spring.datasource.password=klu@123
                                                                                               5 spring.jpa.hibernate.ddl-auto=update
6 spring.jpa.show-sql=true
                                                                                                 7 server.port=1013

→ 
⊕ com.example.ormdemo

    Com.example.ormdemo
    DataLoader.java
    DormdemoApplication.java
    Com.example.ormdemo.entity
    Student.java
    Ostudent
           → # com.example.ormdemo.repository
       ✓ ② StudentRepository.java

→ ③ StudentRepository

→ ⑤ src/main/resources

▷ static
                                                                                            ÷ ■ × ½ | % 5 9 9 9 2 2 • • • • • •
                                                                                           Hibernate: insert into student (department,email,name) values (?,?,?) Hibernate: insert into student (department,email,name) values (?,?,?)

    better templates
    better templates
    contract template
                application.properties
        ⇒ application,properties

⇒ Src/test/java

⇒ Maren Dependencies
                                                                                               Students from CSE (HOL):
                                                                                           Students India GS (mgy). Hibernate: select sl_0.id,sl_0.department,sl_0.email,sl_0.name from student sl_0 where sl_0.dep Student{id=9, name='Keerthi', department='CSE', email='keerthi@example.com'} Student{id=11, name='Anu', department='CSE', email='anu@example.com'}
        > @ src
       > larget
        HELP.md
mvnw
mvnw.cmd
                                                                                            Students from ECE (Native SQL):
Hibernate: SELECT * FROM student WHERE department = ?
            pom.xml
                                                                                           Student{id=10, name='Raj', department='ECE', email='raj@example.com'}

    □ querymethods_demo [boot]
    Sample
```