

```
1 package com.example.hcdd412step1.model;  
2  
3 import com.fasterxml.jackson.annotation.JsonIgnore;  
4 import jakarta.persistence.*;  
5  
6 import java.io.Serializable;  
7 import java.util.HashSet;  
8 import java.util.Set;  
9  
10 @Entity  
11 @Table(name="Courses")  
12 public class Course implements Serializable {  
13     @Id  
14     @GeneratedValue(strategy= GenerationType.  
15         IDENTITY)  
16     private Long id;  
17     @Column(name= "dept")  
18     private String courseDept;  
19     @Column(name = "num")  
20     private String courseNum;  
21     @Column(name = "name")  
22     private String courseName;  
23     @Column(name = "num_students")  
24     private String courseStuds;  
25  
26     @ManyToMany(mappedBy = "courses")  
27     @JsonIgnore  
28     private Set<Student> students = new HashSet  
29     <>();  
30     public Long getId() { return id; }  
31  
32     public void setId(Long id) { this.id = id; }  
33  
34     public String getCourseDept() { return  
35     courseDept; }  
36     public void setCourseDept(String courseDept) {  
37     this.courseDept = courseDept; }  
38  
39     public String getCourseNum() {  
40     return courseNum;  
41 }  
42 }
```

```
38
39     public void setCourseNum(String courseNum) {
40         this.courseNum = courseNum;
41     }
42
43     public String getCourseName() {
44         return courseName;
45     }
46
47     public void setCourseName(String courseName) {
48         this.courseName = courseName;
49     }
50
51     public String getCourseStuds() {
52         return courseStuds;
53     }
54
55     public void setCourseStuds(String courseStuds
56 ) {
57         this.courseStuds = courseStuds;
58     }
59
60     public Set<Student> getStudents() {
61         return students;
62     }
63
64     public void setStudents(Set<Student> students
65 ) {
66         this.students = students;
67     }
68 }
```

```
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2
3 import jakarta.persistence.*;
4
5 import java.io.Serializable;
6 import java.util.HashSet;
7 import java.util.Set;
8
9 @Entity
10 @Table(name = "student")
11 public class Student {
12     @Id
13     @GeneratedValue(strategy = GenerationType.
IDENTITY)
14     private Long sid;
15
16     @Column(name = "stud_name")
17     private String studName;
18     @Column(name = "stud_email")
19     private String studEmail;
20
21     @ManyToMany(cascade = CascadeType.MERGE)
22
23     @JoinTable(name = "student_course", joinColumns
= {@JoinColumn(name = "sid")}, inverseJoinColumns
= {@JoinColumn(name = "id")})
24     public Set<Course> courses = new HashSet<>();
25
26     public String getStudName() {
27         return studName;
28     }
29
30     public void setStudName(String studName) {
31         this.studName = studName;
32     }
33
34     public String getStudEmail() {
35         return studEmail;
36     }
37
38     public void setStudEmail(String studEmail) {
```

```
39         this.studEmail = studEmail;
40     }
41
42     public Long getSid() {
43         return sid;
44     }
45
46     public void setSid(Long sid) {
47         this.sid = sid;
48     }
49
50     public Set<Course> getCourses() {
51         return courses;
52     }
53
54     public void setCourses(Set<Course> courses) {
55         this.courses = courses;
56     }
57 }
58
```