

Entity

Based on Coderpad table structure

✓ 1. Department Entity [🔗](#)

```
1 @Entity
2 @Table(name = "departments")
3 public class Department {
4
5     @Id
6     private Integer id;
7
8     private String name;
9
10    @OneToMany(mappedBy = "department")
11    private List<Employee> employees;
12
13    // Getters and setters
14 }
15
```

✓ 2. Employee Entity [🔗](#)

```
1 @Entity
2 @Table(name = "employees")
3 public class Employee {
4
5     @Id
6     private Integer id;
7
8     @Column(name = "first_name")
9     private String firstName;
10
11    @Column(name = "last_name")
12    private String lastName;
13
14    private Integer salary;
15
16    @ManyToOne
17    @JoinColumn(name = "department_id")
18    private Department department;
19
20    @ManyToMany
21    @JoinTable(
22        name = "employees_projects",
23        joinColumns = @JoinColumn(name = "employee_id"),
24        inverseJoinColumns = @JoinColumn(name = "project_id")
25    )
26    private List<Project> projects;
27
28    // Getters and setters
29
```

```
29 }
30
```

✓ 3. Project Entity [↗](#)

```
1 @Entity
2 @Table(name = "projects")
3 public class Project {
4
5     @Id
6     private Integer id;
7
8     private String title;
9
10    @Column(name = "start_date")
11    private LocalDate startDate;
12
13    @Column(name = "end_date")
14    private LocalDate endDate;
15
16    private Integer budget;
17
18    @ManyToMany(mappedBy = "projects")
19    private List<Employee> employees;
20
21    // Getters and setters
22 }
23
```

Notes: [↗](#)

- `@ManyToOne` and `@OneToMany` link employees and departments.
- `@ManyToMany` is used for the many-to-many relationship via the `employees_projects` join table.
- You can add `@JsonIgnore` (from Jackson) on bidirectional fields to avoid infinite recursion in JSON serialization if you're exposing these via REST APIs.