

```
1 package br.com.uniamerica.desafioaluno.desafio;
2
3 import jakarta.persistence.*;
4 import lombok.Getter;
5 import lombok.Setter;
6
7 @Entity
8 @Table(name = "alunos", schema = "public")
9 public class Aluno {
10     @Getter
11     @Id
12     @GeneratedValue(strategy = GenerationType.AUTO)
13     @Column(name = "co-aluno", nullable = false,
14         unique = true)
15     private Long id;
16     @Getter @Setter
17     @Column(name = "nm-aluno", nullable = false,
18         length = 100)
19     private String nome;
20     @Getter @Setter
21     @Column(name = "num-cpf", nullable = false,
22         unique = true)
23     private Integer cpf;
24     @Getter @Setter
25     @JoinColumn(name = "ds-endereco", nullable = false)
26     @OneToOne
27     private Endereco endereco;
```

```
1 package br.com.uniamerica.desafioaluno.desafio;
2
3 import jakarta.persistence.*;
4 import lombok.Getter;
5 import lombok.Setter;
6
7 @Entity
8 @Table(name = "contatos")
9
10 public class Contato {
11     @Getter @Setter
12     @Id
13     @GeneratedValue(strategy = GenerationType.AUTO)
14     @Column(name = "co-contato", nullable = false,
15         unique = true)
16     private Long id;
17     @Getter @Setter
18     @Column(name = "tp-telefone", nullable = false,
19         length = 10)
20     private String tipo;
21     private String valor;
22     @Getter @Setter
23     @JoinColumn(name = "co-aluno", nullable = false)
24     @ManyToOne
25     private Aluno aluno;
26 }
27
```

```
1 package br.com.uniamerica.desafioaluno.desafio;
2 import java.util.List;
3
4 import jakarta.persistence.*;
5 import lombok.Generated;
6 import lombok.Getter;
7 import lombok.Setter;
8
9 import java.util.List;
10 @Entity
11 @Table(name = "cursos", schema = "public")
12 public class Curso {
13     @Getter
14     @Id
15     @GeneratedValue(strategy = GenerationType.AUTO)
16     @Column(name = "co-curso", nullable = false,
17         unique = true)
18     private Long id;
19     @Getter @Setter
20     @Column(name = "nm-curso", nullable = false,
21         length = 40)
22     private String nome;
23     @Getter @Setter
24     @Column(name = "ds-carga-horaria", nullable =
25         false)
26     private int cargaHoraria;
27     @Getter
28     @Column(name = "nm-aluno")
29     @ManyToMany
30     private List<Aluno> aluno;
```

```
1 package br.com.uniamerica.desafioaluno.desafio;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.
  SpringApplication;
5
6 @SpringBootApplication
7 public class DesafioApplication {
8
9     public static void main(String[] args) {
10         SpringApplication.run(DesafioApplication.
  class, args);
11     }
12
13 }
14
```

```
1 package br.com.uniamerica.desafioaluno.desafio;
2
3 import jakarta.persistence.*;
4 import lombok.Getter;
5 import lombok.Setter;
6
7 @Entity
8 @Table(name = "enderecos", schema = "public")
9
10 public class Endereco {
11     @Getter @Setter
12     @Id
13     @GeneratedValue(strategy = GenerationType.AUTO)
14     @Column(name = "co-endereco")
15     private Long id;
16     @Getter @Setter
17     @Column(name = "nm-rua", nullable = false, length
18         = 100)
19     private String rua;
20     @Getter @Setter
21     @Column(name = "nm-casa", nullable = false)
22     private int numcasa;
23     @Getter @Setter
24     @Column(name = "nm-bairro", nullable = false)
25     private String bairro;
26     @Getter @Setter
27     @Column(name = "num-cep", length = 9)
28     private String cep;
29 }
```

```
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2
3 import jakarta.persistence.*;
4 import lombok.Getter;
5 import lombok.Setter;
6
7 import java.util.List;
8
9 @Entity
10 @Table(name = "professores", schema = "public")
11
12 public class Professor {
13     @Getter
14     @Id
15     @GeneratedValue(strategy = GenerationType.AUTO)
16     @Column(name = "co-professor", nullable = false,
17         unique = true)
18     private Long id;
19     @Getter
20     @Setter
21     @Column(name = "nm-professor", nullable = false,
22         unique = true, length = 100)
23     private String nome;
24
25
26     @Getter @Setter
27     @OneToMany(fetch = FetchType.LAZY, cascade =
28         CascadeType.ALL)
29     @JoinTable(name = "professor-aluno",
30         uniqueConstraints = @UniqueConstraint(
31             columnNames = {
32                 "co-professor",
33                 "co-aluno"
34             }
35         ),
36         joinColumns = @JoinColumn(
37             name = "co-professor"
38         ),
39         inverseJoinColumns = @JoinColumn(
```

```
39         name = "co-aluno"
40     )
41 )
42     private List<Aluno> alunos;
43
44
45 }
46
```