**EXERCISE 2**

**Mapping Entities to Database Tables**

Annotations Used:

* + @Entity: Specifies that the class is an entity and is mapped to a database table.
  + @Table: Specifies the name of the database table to which the entity is mapped.
  + @Id: Specifies the primary key of an entity.
  + @GeneratedValue: Provides the generation strategy for the primary key.
  + @ManyToOne and @OneToMany: Define the relationship between Department and Employee.
  + @JoinColumn: Specifies the foreign key column in the Employee entity.

**Lombok Annotations:**

* @Getter and @Setter generate getter and setter methods for all fields.
* @NoArgsConstructor generates a no-argument constructor.
* @AllArgsConstructor generates a constructor with all fields as arguments.

**Relationship Configuration:**

* The Department entity has a one-to-many relationship with the Employee entity, meaning one department can have many employees.
* The Employee entity references the Department using a foreign key column named department\_id.