Day35 Agenda

Spring Data JPA – One to Many, Many to Many relationship examples

RDBMS Relationships

1. One-to-One : (1..1) One Person – One SSN, One Person – One Driving License, One Person – One Name, One Person – One Date of Birth, One Person – One Blood Group,
2. One to Many : (1..N) One Customer – Multiple Bank Accounts, One Car – Many Seats, Wheels, One Course – Many Modules, Many Students, One Trainer – Many Batches
3. Many to One : (N..1)
4. Many to Many: (M..N) Many Course – Many Modules

Hibernate Relationship annotations

1. One to One ---

@OneToOne(targetEntity=Address.**class**,cascade=CascadeType.ALL)

1. One to Many ---

@OneToMany(cascade = CascadeType.ALL)

@JoinColumn(name="qid")

@OrderColumn(name="type")

1. Many to Many ----

@ManyToMany(targetEntity = Answer.**class**, cascade = { CascadeType.ALL })

@JoinTable(name = "q\_ans1123", joinColumns = { @JoinColumn(name = "q\_id") }, inverseJoinColumns = { @JoinColumn(name = "ans\_id") })

1. Many to One ---

@ManyToOne(cascade=CascadeType.ALL)

Spring Boot – Main annotation

@SpringBootApplication = (@SpringBootConfiguration + @EnableAutoConfiguration + @ComponentScan )

@SpringBootConfiguration = Add all the required dependencies for your spring boot project based on pom.xml file. (Include embedded tomcat for spring web dependency)

@EnableAutoConfiguration = Automatically enables additional libraries, configurations etc., ( for h2 dependency, it will configure the default database, for security dependency it will generate default password and display in the console)

@ComponentScan = This will scan base package and all sub package and create instances of controllers, repos, service objects)

Many to Many Examples

<https://attacomsian.com/blog/spring-data-jpa-many-to-many-mapping>

<https://www.javaguides.net/2019/08/spring-boot-hibernate-many-to-many-example.html>