## Spring Framework: Spring Data JPA

# INTEGRATING AND USING SPRING DATA JPA IN AN APPLICATION



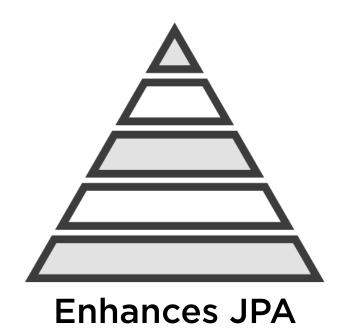
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### Clip 2 - Demo Placeholder

What Can Spring Data JPA Do?

#### What Can Spring Data JPA Do?

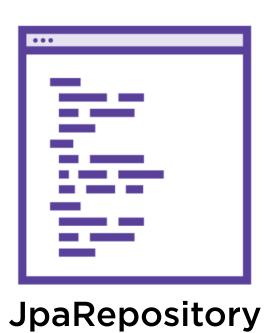
#### What is Spring Data JPA?













#### JPA Primer



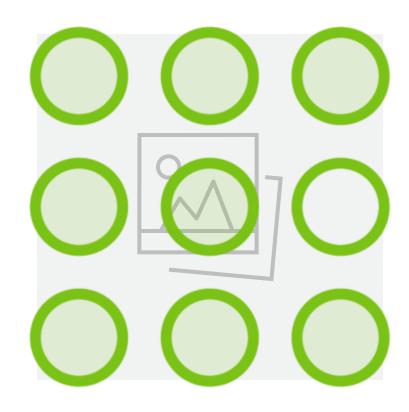
#### JPA (Java Persistence API)

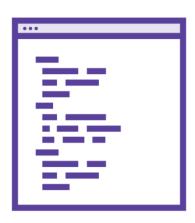
ORM (Object Relation Mapping) - Relational Tables <-> Software Objects

```
session_id session_name
       2 A Better Way to Access Data with Spring Data
       3 A Deep Dive Into Spring IoC
        4 Building RESTful APIs with Spring Data Rest
        5 Spring Integration Quick Start
        6 Building Microservices with Spring
       7 Spring Cloud Primer
        8 Spring Boot in 30 Minutes
       9 Testing Spring Applications
      10 Writing Your First Advice with Spring AOP
      11 IntelliJ IDEA Tips and Tricks
      12 Functional Programming in Java
      13 Making the Switch from Java to Kotlin
```

```
@Entity(name = "sessions")
PUDIIC CIASS OCSSIUIT (
  @ Id
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  @Column(name = "session_id")
  private Long sessionId;
  @ManyToMany
  @JoinTable(
      name = "session_speakers",
      joinColumns = @JoinColumn(name = "session_id"),
      inverseJoinColumns = @JoinColumn(name = "speaker_id"))
  private List<Speaker> speakers;
```

#### Spring Data Overview





Repository

**Query Generation** 

**Spring Data Commons** 

**Spring Data JPA** 

Spring JDBC

Spring Data KeyValue

Spring Data Couchbase Spring Data Hazelcast

Spring Data Neo4j

**Spring Data LDAP** 

**Spring Data MongoDB** 

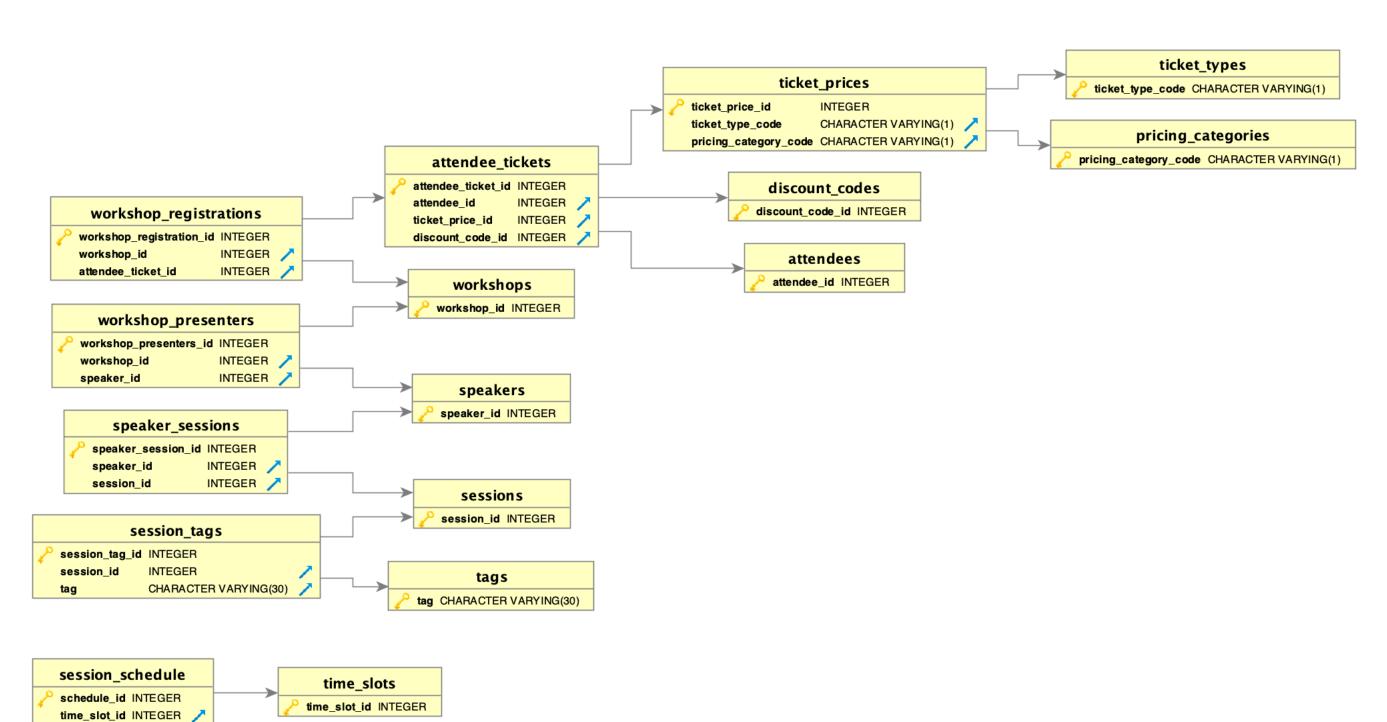
**Spring Data Redis** 

**Spring Data DynamoDB** 

#### Clip 6 - Demo Placeholder

Demo: Setting up the Codebase

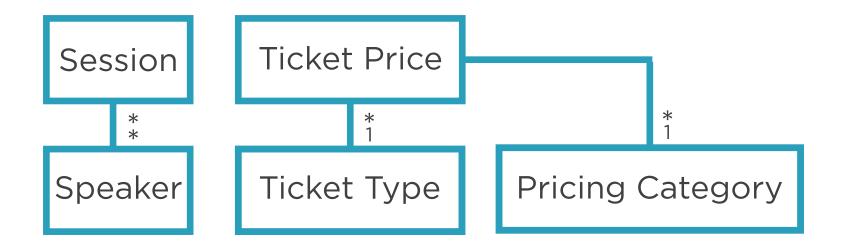
#### Setting up the Database

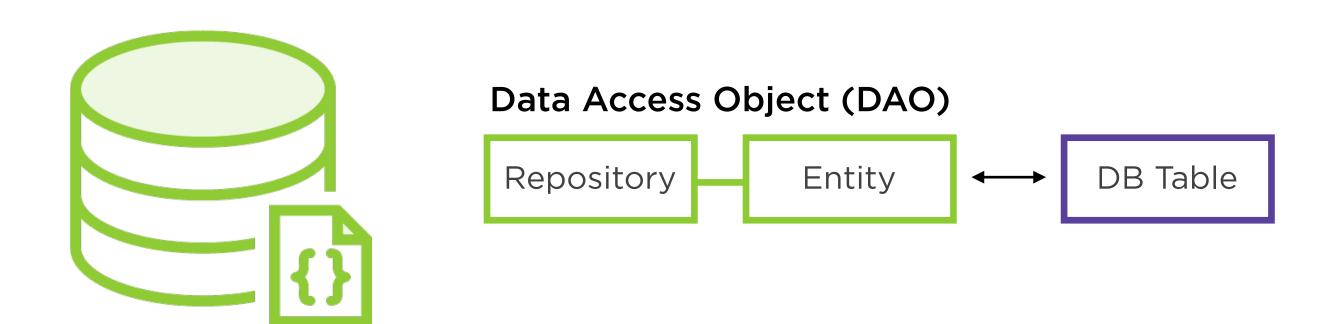


#### Clip 8 - Demo Placeholder

Demo: Setting Up the Project

#### Project Overview





**Persistence Tier** 

#### Installing Spring Data JPA

```
<dependency>
     <groupId>org.springframework.boot</groupId>
     <artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
<dependency>
     <groupId>org.postgresql</groupId>
     <artifactId>postgresql</artifactId>
     <scope>runtime</scope>
</dependency>
```

#### Clip 11 - Demo Placeholder

Demo: Installing Spring Data JPA

#### Summary

Spring Data makes JPA easy!

JPA basics

Project setup and introduction

Spring Data JPA installed and running