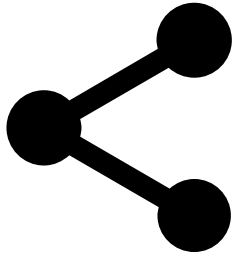


JPA Tutorial - Java Persistence API

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In this tutorial, we will learn JPA in-depth with **Hibernate** as Implementation.

JPA stands for **Jakarta Persistence API (JPA)**, formerly known as Java Persistence API.

JPA is just a specification that facilitates object-relational mapping to manage relational data in Java applications. It provides a platform to work directly with objects instead of using SQL statements.

YouTube Video - What is JPA?

Check out top hibernate ORM tutorial at **[Complete Hibernate Tutorial](#)**

JPA is a specification and several implementations are available. Popular implementations are **Hibernate**, EclipseLink, and Apache OpenJPA.

JPA Getting Started

- **Introduction to the Java Persistence API** - In this article, you will learn what is JPA? what is ORM, and an overview of JPA API packages, versions, etc?
- **JPA Entity Class Basics** - Check out how to create a JPA entity, what are the rules to create a JPA entity, and what are features JPA Entity provides like cascading, lazy, relationships, inheritance, etc.

- **JPA Architecture** - In this article, we will discuss the architecture(core classes and interfaces of Java Persistence API) of the JPA specification.
- **JPA - Obtaining a JPA Database Connection** - A connection to a database is represented by an EntityManager instance, which also provides functionality for performing operations on a database.
- **Configure JPA with Hibernate Example** - The Java Persistence API (a.k.a. JPA) is a Java specification for managing, persisting, and accessing data between objects and relational databases. Hibernate is an ORM (Object Relational Mapping) tool that implements JPA specifications.
- **All JPA Annotations: Mapping Annotations** - This article provides a quick overview of all JPA mapping annotations quick reference or summary.
- **Guide to JPA and Hibernate Cascade Types** - Learn various cascade types JPA supports with examples.
- **JPA Entity Object Life Cycle - New, Managed, Removed, and Detached** - In this article, we will discuss the life cycle of JPA entity objects. Note that during the persistence process an object goes through lifecycle changes.
- **What is the Difference Between JPA and Hibernate?** // Good to know

JPA Entity Creation

- **JPA Entity Class Basics** - Check out how to create a JPA entity, what are the rules to create a JPA entity, and what are features JPA Entity provides like cascading, lazy, relationships, inheritance, etc.
- **Guide to JPA and Hibernate Cascade Types** - JPA allows you to propagate the state transition from a parent entity to a child. This article describes all cascade types with an example.
- **Hibernate/JPA - Primary Key Generation Strategies** - Let's discuss 4 different primary key generation strategies which generate the primary key values programmatically or use database

features, like auto-incremented columns or sequences.

- **Hibernate 5 - Enum Type Mapping Example** - In this article, we will show you how a Java enum type is persisted into a database.
- **Hibernate Component Mapping Using @Embeddable and @Embedded Annotation** - With Hibernate we can use the `@Embeddable` annotation to mark a class to be eligible as an embeddable class.

JPA/Hibernate Association Mapping

- **JPA/Hibernate One to One Mapping Annotation Example**
- **JPA/Hibernate One to One Bidirectional Mapping Annotation Example**
- **JPA Hibernate One to Many Unidirectional Mapping Example**
- **JPA/Hibernate One to Many Bidirectional Mapping Example**
- **JPA/Hibernate Many to Many Annotation Mapping Example**

JPA Operations

- **Different Ways to Store JPA Entity Objects into a Database**
- **Different Ways to Retrieve JPA Entity Objects from Database**
- **Different Ways to Delete JPA Entity Objects from Database**
- **Different Ways to Update JPA Entity Objects into a Database**
- **JPA CRUD Example**

JPA Core Interfaces

- **JPA EntityManager Interface with Example**
- **JPA EntityManagerFactory Interface with Example**

- **JPA EntityTransaction Interface with Example**

Inheritance Mapping

- **Hibernate/JPA - Inheritance Mapping** - In this article, we will learn 4 inheritance strategies with examples.
- **Hibernate/JPA MappedSuperclass Inheritance Example** - The JPA standard specification defines the **@MappedSuperclass** annotation to allow an entity to inherit properties from a base class.
- **Hibernate/JPA Single Table Inheritance Example** - In this article, we will discuss The single table strategy which maps all entities of the inheritance structure to the same database table.
- **Hibernate JPA Joined Table Inheritance Example** - In this article, we will discuss The Joined table strategy or table-per-subclass mapping strategy.
- **Hibernate/JPA Table Per Class Inheritance Example** - In this article, we'll look into Hibernate/JPA table per class inheritance.

JPA Interview Preparation

- **JPA Interview Questions and Answers for Beginners and Experienced** - In this article, we will discuss important **Java Persistence API** interview questions and answers.
- **What is the Difference Between JPA and Hibernate?** - An important interview question asked in many technical interviews.