



Hibernate Aralık - 2022

Miraç

## **Basic Annotations**

Entity, Table, Id, Column etc.

**Embedded Annotations** 

OneToMany - ManyToOne



#### **HQL**

Hibernate Query Language.

OneToOne Relation

**ManyToMany Relation** 



#### **Fetch Types**

Lazy, Eager

**Cache Level** 

First Level -Second Level

**Get-Load Methods** 

Hibernate Session

#### Hibernate Lifecycle

States: Transient, Persistent, Detached, Removed

JPA EntityManager



# Hibernate General Questions

What is Persistence? Hibernate?

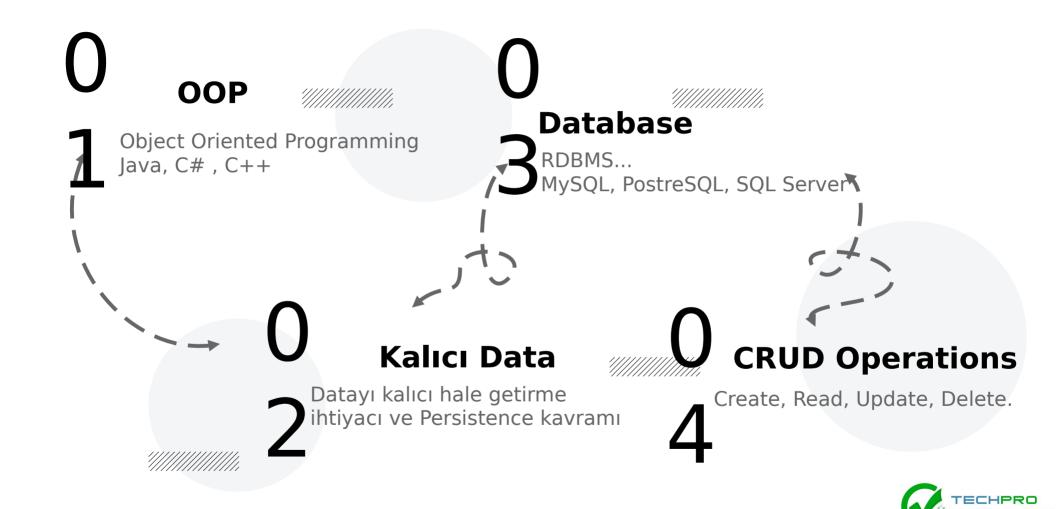
What is JDBC?

What is ORM?

What is

What is JPA?





## **HIBERNATE**

- JDBC: Java Database Connectivity API
- ORM Object Relational Mapping
  - Kalıcı Data ile ilgili Sorunlara Çözüm
  - JDBC BoilerPlate Kodlar
- ORM ve RDBMS, daha az SQL kodu
- ORM framework / tools: Hibernate, EclipseLink, TopLink, IBatis etc.





## **HIBERNATE - JPA**

JPA (Java Persistence API)

- JPA bir spesifikasyondur
  - Kontrolsüz ORM Frameworkleri
- Hibernate, ORM Framework ler içinde JPA yı implement eden en popüler tool dur.
- The Java Persistence API (JPA) ismini 2019 yılında Jakarta Persistence olarak değiştirdi.







## **HIBERNATE - JDBC**

- Hibernate bütün database iletişiminde JDBC'yi kullanır
- Hibernate, JDBC'nin bir üst katmanıdır.
- Uygulamamız datayı almak ve kaydetmek için hibernate API'yi kullanır



#### **HIBERNATE** Proje Oluşturma

- **1.** maven project
- 2. dependencies into pom.xml file
  - Hibernate core
  - PostgreSQL connector
- **3**. Hibernate Configuration File
  - url, username, password, etc.
- 4. Add Java Class and Annotate It
  - @Entity, @Table, @Id, @Column etc.





## **MAVEN DEPENDENCIES**



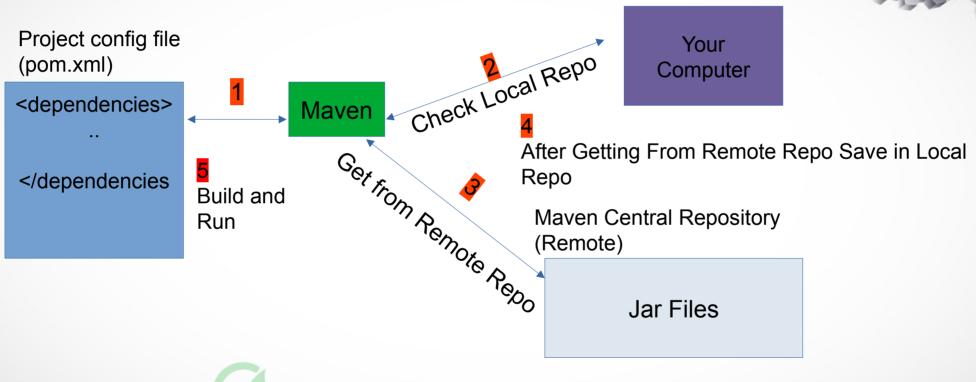
#### Maven dependencies

- <dependency>
- <groupId>org.hibernate</groupId>
- <artifactId>hibernate-core</artifactId>
- <version>5.6.8.Final</version>
- </dependency>



### MAVEN nasıl Çalışır?

Maven Local Repository (.m2)





#### **MAVEN LOCAL REPOSITORY**



- Local Repository for Different OS
  - MS Windows: C:\Users\your user home\.m2\ repository
  - ✓ MAC and Linux: ~/.m2/repository

