Spring Boot 3장

2020-04-25 양시영



Java Persistence API

JAVA ORM 표준

MyBatis != ORM MyBatis == SQL Mapper Why JPA

JAVA == Object Oriented != RDB Escape SQL Hell Focus Object Oriented Programming

Escape SQL Hell

User Table : id, name, address

Create User Table CRUD SQL

-> User Table : id, name, address, email

Modify User Table CRUD SQL

If we use JPA

Modify Just Entity

```
@Getter
@NoArgsConstructor
@Table(name = "user")
@Entity
public class User {
    @Id
   @GeneratedValue(strategy = GenerationType.IDENTITY)
   private Long id;
   @Column(unique = true)
   private String name;
   @Column
   private String password;
   @Column
   private String role;
    @Builder
    public User(Long id, String name, String password, String role) {
       this.id = id;
       this.name = name;
       this.password = password;
       this.role = role;
    }
   public void encodePassword(PasswordEncoder passwordEncoder) {
       this.password = passwordEncoder.encode(this.password);
    }
   public static void checkExistId(String id) {
    }
   public static void checkPassword(String password) {
```

What's mean "JAVA == Object Oriented != RDB"?



유저 Class

```
@Getter
@Setter
public class User {
    private Integer id;
    private String name;
    private String address;
    private String email;
}
```

상품 Class

```
@Setter
@Getter
public class Item {
    private Integer id;
    private String itemName;
}
```

DB와 매핑할 Class

```
@Setter
@Getter
public class UserItem {
    private Integer itemId;
    private Integer userId;
    private String itemName;
    private String userName;
    private String userAddress;
    private String userEmail;
}
```

Query

SELECT user.id as userId , user.name as userName , user.address as userAddress , user.email as userEmail , item.id as itemId , item.name as itemName FROM User user, Item item WHERE user.id = item.user_id

DB와 매핑할 Class

```
@Setter
@Getter
public class UserItem {
    private Integer itemId;
    private Integer userId;
    private String itemName;
    private String userName;
    private String userAddress;
    private String userEmail;
}
```

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```

DB 때문에 만들어진 Class 사실은 불필요 What's mean "JAVA == Object Oriented != RDB"?

```
@Getter
@Builder
@Entity
public class User {

    @GeneratedValue
    @Id
    private Integer id;

    private String name;

    private String address;

    private String email;

    @OneToMany(mappedBy = "user")
    private List<Item> itemList;
}
```

```
@Getter
@Builder
@Entity
public class Item {

    @GeneratedValue
    @Id
    private Integer id;

    private String name;

    @JoinColumn(name = "user_id")
    @ManyToOne
    private User user;
}
```

user.getItemList() // item.getUser()