

2025년 상반기 K-디지털 트레이닝

# MongoDB Java POJO 연동

[KB] IT's Your Life



#### POJO 매핑

- o Document로 실제 데이터를 처리하는 경우 매우 번거로움
- Java POJO 클래스로 작업 직원 필요

#### build.gradle

```
dependencies {
    compileOnly("org.projectlombok:1.18.32")
    annotationProcessor("org.projectlombok:1.18.32")
    testCompileOnly("org.projectlombok:lombok:1.18.32")
    testAnnotationProcessor("org.projectlombok:lombok:1.18.32")
    ...
}
```

### Database.java

```
package app;
import org.bson.codecs.configuration.CodecProvider;
import org.bson.codecs.configuration.CodecRegistry;
import org.bson.codecs.pojo.PojoCodecProvider;
import static com.mongodb.MongoClientSettings.getDefaultCodecRegistry;
import static org.bson.codecs.configuration.CodecRegistries.fromProviders;
import static org.bson.codecs.configuration.CodecRegistries.fromRegistries;
public class Database {
    static MongoClient client;
    static MongoDatabase database;
    static {
        CodecProvider pojoCodecProvider = PojoCodecProvider.builder().automatic(true).build();
        CodecRegistry pojoCodecRegistry = fromRegistries(getDefaultCodecRegistry(), fromProviders(pojoCodecProvider));
        ConnectionString connectionString = new ConnectionString("mongodb://127.0.0.1:27017");
        client = MongoClients.create(connectionString);
        database = client.getDatabase("todo db").withCodecRegistry(pojoCodecRegistry);
```

#### Database.java

```
public static void close() {
    client.close();
public static MongoDatabase getDatabase() {
    return database;
public static MongoCollection<Document> getCollection(String colName) {
    MongoCollection<Document> collection = database.getCollection(colName);
    return collection;
public static <T> MongoCollection<T> getCollection(String colName, Class<T> clazz) {
    MongoCollection<T> collection = database.getCollection(colName, clazz);
    return collection;
```

### Todo.java

```
package app.domain;
import org.bson.types.ObjectId;
@Data
@AllArgsConstructor
@NoArgsConstructor
public class Todo {
    private ObjectId id;
    private String title;
    private String desc;
    private boolean done;
```

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```

### App.java

```
package app;
import app.domain.Todo;
import com.mongodb.client.MongoCollection;
import org.bson.conversions.Bson;
import org.bson.types.ObjectId;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
import static com.mongodb.client.model.Filters.eq;
public class App {
    public static void main(String[] args) {
        MongoCollection<Todo> collection = Database.getCollection("todo", Todo.class);
```

### App.java

#### App.java

```
// find()
List<Todo> todos = new ArrayList<>();
collection.find().into(todos);
for(Todo todo : todos) {
    System.out.println(todo);
// findOne()
String id = "666a6296f4fe57189cd03eea";
Bson query = eq("_id", new ObjectId(id));
Todo todo = collection.find(query).first();
System.out.println("==> findByIdResult : " + todo);
Database.close();
```

update와 delete는 기존 방식과 동일